



# SAINT IGNATIUS

*Cleveland • Jesuit • 1886*

## Course Catalog

2019-2020 School Year

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## CURRICULUM OVERVIEW

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*“A Saint Ignatius education does not exist to make you better than others; it exists to make you better for others.”* This quote from our beloved friend Mr. Jim Skerl ‘74 sums up everything we do at Saint Ignatius High School. As a Jesuit high school, we strive not only to meet the standards of the Ohio Department of Education or even the standards of the many excellent colleges and universities that we send our students to after their four years with us. We strive to educate the whole person, mind, body and soul, and to point that education towards the service of God’s people. We strive to teach our students to be “Men for Others”.

The curriculum outlined in these pages is the primary way we form our students and is the only way that every single one of our students is guaranteed to experience. There are, of course, many wonderful extracurricular opportunities but it is our academic curriculum that binds us together as Ignatius men forever. It is the daily experience that each one of our students has during his four years here. As such, we treat each component of this curriculum with respect knowing that it all contributes to the formation of the graduate at graduation as a man who is open to growth, intellectually competent, religious, loving, and committed to doing justice.

What follows here are some devices to help readers see the big picture of our curriculum and a department by department description of the many, many options a student has in choosing his academic path through Saint Ignatius. Please note that courses listing a fee for AP testing may change. AP fees are set by that testing service and are not controlled by the school.

## GENERAL INFORMATION

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- All students take either six or seven courses per semester.
- All students will have a 45 minute break for lunch and one other free period during the school day.
- All students must meet the following graduation requirements to earn a Saint Ignatius diploma:

English = 4 credits

Fine Arts = 1.5 credits

- *must include computer concepts and public speaking*

Health/Physical Education = 1 credit

History = 3 credits / 4 recommended

- *must include world history, US history, government and personal finance*

Languages = 3 credits / 4 recommended

- *must be at least three consecutive years in the same language*

Mathematics = 4 credits

- *must include Algebra II*

Science = 3 credits / 4 recommended

- *must include biology, chemistry, and physics*

Theology = 4 credits

Electives = 1 credit

TOTAL = 24.5 credits

**TYPICAL PROGRESSION**  
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Freshman		Sophomore		Junior		Senior	
Theology		Theology		Theology		Theology	
Math		Math		Math		Math	
English		English		English		English	
Language		Language		Language		Science	
Science		Science		History		Elective	Elective
History		History		Health	Public Speaking	Elective	Elective
Fine Arts	PE	Computer Concepts	PE	Optional Elective	Optional Elective	Optional Elective	Optional Elective

*NB: Summer school options may allow for even more electives.*

**TYPICAL PROGRESSION FOR BAND AND CHORUS**

Freshman		Sophomore		Junior		Senior	
Band/Chorus		Band/Chorus Computer Concepts*		Band/Chorus		Band/Chorus	
Theology		Theology		Theology		Theology	
Math		Math		Math		Math	
English		English		English		English	
Language		Language		Language		Science	
Science		Science		History		PE	Health
History		History		PE	Public Speaking	Optional Elective	Optional Elective

*\*The Computer Concepts requirement for band and chorus students can be filled through a blended learning model incorporating online learning along with traditional instruction.*

**COURSE REGISTRATION POLICIES**

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### **A. Course Registration**

Course registration at Saint Ignatius High School occurs during the spring semester prior to the school year for which the student is registering. A student currently enrolled at Saint Ignatius will meet with his counselor and consult with teachers and parents before requesting the courses he wants through the online registration system. The academic departments will then review the requests and approve or disapprove based on the judgment of the student's current teachers as to what level of coursework is in the student's best interest academically. Some academic departments also have prerequisites or other special criteria for registering for certain courses that must also be considered. If a student does not receive approval for a course, he may appeal the decision to the department chair. However, the department chair makes the final decision. It is imperative that course requests are submitted in a timely fashion. Failure to do so may result in students being closed out of courses. Incoming freshman students follow a similar process but placement decisions will be based on grade school teacher recommendations, grade school performance, and testing. Questions or concerns about the registration process should be addressed to a student's counselor.

### **B. Schedule Changes**

Once registration is completed, changes to a student's schedule may be made by the school to balance class sizes or fix scheduling errors, e.g. no lunch period, missing a required class, lacking a prerequisite. If a student notices an error in his schedule, he should contact his counselor before classes begin. If a student and his family want to change the classes he has registered for, he should contact his counselor before classes begin. NB: Schedule changes based on preference of teacher or period will not be considered. Once the semester begins, students may not withdraw from a course unless there are sufficient academic reasons to justify withdrawal. Any course changes after the semester begins will result in a grade of W for that course. The course will still appear on the report card and the transcript with a grade of W. The grade of W does not confer any academic credit nor does it impact a student's GPA.

### **C. Process for Requesting a Course Withdrawal**

A student-initiated request for a course withdrawal will only be considered for academic or medical reasons and is dependent on space being available if a new course placement is required. Course withdrawal requests will not be considered after twenty (20) school days from the start of the class. The procedure for a student-initiated change is as follows:

1. The student makes an appointment with his counselor to obtain a course withdrawal request form. The counselor will help the student complete the top portion of the form and will advise the student on the wisdom of the changes. Juniors and seniors will also consult with their college counselor.
2. The student will then consult with the teacher(s) and department chair(s) involved asking for their recommendations and their signatures acknowledging that they had a conversation with the student.
3. The student will then take the form home and review the proposed change with his parents in light of the recommendations from the counselor(s) and teacher(s). Both the student and his parents will sign the form if it is still their intention to pursue a change.
4. Once all signatures have been obtained, the student returns the form to the Principal's office for final consideration by the Assistant Principal for Academics who will determine whether the proposed changes meet the school's criteria for course withdrawals and is in the best interest of the student and the school.
5. Should a course change be approved by the Assistant Principal for Academics, the student's schedule will be changed and all signatories will be notified. A grade of W will be assigned to withdrawn courses and any new courses will be added to the student's schedule. The form will be filed in the student's permanent record.

## **ENGLISH COURSES**

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To meet graduation requirements, each student must earn 4 credits in English. The English Department's program strengthens students' abilities to read, think, and write analytically and effectively. We strive to create students who are not only proficient readers and writers but who also understand and appreciate the context, theme, and style of literature. Our program emphasizes understanding, application, analysis, synthesis, and evaluation: skills that are critical not only to the assessment of literature but to the navigation of life itself.

We believe that a Jesuit education allows for the fullest development of all human qualities and ascribe to the Jesuit ideal of eloquentia perfecta, speaking and writing artfully and fluently. Our program therefore is designed to combine critical thinking and disciplined studies with imagination and reflection. We are dedicated to forming life-long learners, men for others.

9th Grade	10th Grade	11th Grade	12th Grade
English I	English II	English III	English IV
~or	~or	~or	~or
Honors English I	Honors English II	Honors English III	Honors English IV
	~or	~or	~or
	AP Seminar	AP Literature	AP Language

English I (115)

Length: 2 semesters

Credit: 1 credit

Description: This first year course has students learning the skills of composition, the conventions of English mechanics, usage, and grammar, as well as reading from a variety of literary genres. Students will learn how to recognize and use correct writing conventions and improve their skill in using inference, vocabulary, and historical and cultural contexts. Students will write using a process for both the out-of-class compositions and any in-class writing. In the first semester, students will primarily work on the organization of the expository paragraph and development of effective detail. Vocabulary is studied throughout the year using Membean ([www.membean.com](http://www.membean.com)), a web-based learning program. Participation in the discussion and analysis of grammar and of literary works is also an essential part of the course. Generally speaking, the course is devoted to teaching students the importance of close reading, clear and precise writing, and grammar convention.

Honors English I (119)

Co-requisite: [AP Mod World Hist \(320\)](#)

Qualifications: Entrance exam score of 90th percentile or higher; English Language Arts grade of A- or better in junior high; junior high teacher's recommendation for advanced coursework.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This first year English course focuses on a systematic study of grammar. However, the pace of this study in Honors English I is quicker with more emphasis placed on developing writing and reading skills. The literary genre study is complemented by writing assignments designed to develop advanced skill with the expository essay and develop an effective writing process. This writing-about-reading approach improves students' appreciation and understanding of grammar and the basic genres as it improves their skills in using inference, literary elements, research, vocabulary, and historical and cultural contexts. Students will write a variety of expository forms including the narrative, the argument, cause and effect, literary analysis, and the impromptu.

### English II (125)

Prerequisites: English I (115) or Honors English I (119)

Length: 2 semesters

Credit: 1 credit

Description: This second year course has students reading selections from American literature. The study of this literature will improve students' understanding of the American experience as well as improve their skill in using inference, vocabulary, and historical and cultural contexts. The course begins with an integrated review of grammar and usage in the first quarter. Vocabulary is studied through the year. Participation in the discussion and analysis of literary works and in applying literary terms is also an essential part of the course.

### Honors English II (129)

Prerequisites: English I (115) or Honors English I (119)

Qualifications: Teacher recommendation; grade of B+ or better in English I or a grade of B or better in Honors English I; proof of good writing ability (B+ or better); good reading comprehension; consistency and promptness in doing assignments.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This second year English course is similar in structure and content to English II. Students enrolled in Honors English II will write a variety of literary analysis compositions in preparation for [AP English Literature or Honors English III](#). Since this is an honors course, students will spend less time with basic skills and review and more time working on analysis and composition skills.

### Advanced Placement Seminar: Honors English II (130)

Prerequisites: English I (115) or Honors English I (119)

Qualifications: Teacher recommendation; grade of A- or better in English I or a grade of B+ or better in Honors English I; maintain grades of B or better in all other classes; consistent quality of student writing as demonstrated by a B+ average or better on assigned essays; good reading comprehension; distinguished interest in English and academic writing; academic readiness as evidenced by timely preparation of study assignments, essays and the writing process, and assigned reading; an interest in

completing the requirements for the AP Capstone diploma (a score of 3 or higher in the AP Seminar and AP Research courses and scores of 3 or higher on at least 4 other AP courses).

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$142 exam fee

Description: This second year English course teaches students how to investigate real-world topics from multiple perspectives; carefully analyze information, write evidence-based arguments and effectively communicate them; and work independently and with a team to research a topic, develop a written report and deliver a presentation. The AP exam score is based on a team project and presentation (25%), an individual research-based essay & presentation (35%), and the end-of-course exam. AP Seminar is the first course in the AP Capstone program. See [AP Research](#) (Theology Department) for more details on the Capstone program and Capstone diploma.

### English III (135)

Prerequisites: English II (125) or Honors English II (129) or AP Seminar (130)

Length: 2 semesters

Credit: 1 credit

Description: This third year course has students reading selections from English literature. The study of this literature will improve students' understanding of their literary and linguistic inheritance as well as improve their skill in using inference, text-based vocabulary, and historical and cultural contexts. Students will write about the literature they are reading, chiefly in analytical and expository essays and, occasionally, using narrative and reflection. Students will also write a research paper. The course provides a survey of British literature from its origins to the present. In addition to readings from the anthology, novels and plays are assigned. Discussion and analysis of literary works and the proper application of literary terms are essential components.

### Honors English III (139)

Prerequisites: English II (125) or Honors English II (129) or AP Seminar (130)

Qualifications: Teacher recommendation; grade of B+ or better in English II or a grade of B or better in Honors English II or AP Seminar; proof of good writing ability (B+ or better); writing sample; ability in literary analysis; consistency and promptness in doing assignments

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: In Honors English III students will often work independently on assigned reading or writing tasks. The outcomes for this course are the same as English III; however, instructors are to focus on preparing students for the demands of the outcomes of the AP English Language or Honors English IV as well. Enrolled students are expected to prepare for class daily in a thorough manner, to write college-level essays by the end of the course, to participate in seminar-style discussion, to increase sophistication of expression, to improve presentation of textual evidence, and to be able to effectively analyze the structure, themes, and language of complex texts.

### Advanced Placement English Literature and Composition (140)

Prerequisites: English II (125) or Honors English II (129) or AP Seminar (130)

Qualifications: Teacher recommendation; grade of A- or better in English II or a grade of B+ or better in Honors English II or AP Seminar; proof of good writing ability (B+ or better); writing sample;



demonstrated ability in literary analysis, as well as strong understanding of the elements of composition; consistency and promptness in doing assignments

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$94 exam fee

Description: This year-long course is open to juniors and includes both American and British literature in a variety of genres – novels, plays, poems, short stories, and essays. The object of the course is to sharpen critical, analytical, and interpretative skills through close readings of the literature paired with advanced analytical writing. Writing projects include essays, short research papers, and impromptu writing. Students enrolled in AP Literature are expected to enter the course with a strong foundation in the elements of composition. Since this is an AP course, most time will be spent working on independent analysis of texts and writing and not on reviewing the basic elements of composition. All students enrolled in this course are required to take the AP English Literature and Composition exam.

#### English IV: Diverse Perspectives in Literature and Composition (145)

Prerequisites: English III (135) or Honors English III (139) or AP English Literature (140)

Length: 2 semesters

Credit: 1 credit

Description: In this year-long course, that is modeled after a first year college-level English course, students will explore issues related to the complex facets of human identity. The primary modes of operation for this exploration will be writing in a variety of compositional styles and reading from a selection of diverse fiction and nonfiction, in traditional and non-traditional forms. The course's two strands operate cooperatively. Through close reading, critical thinking, and process-based writing, students will be challenged to identify, understand, and appreciate the many differences that make people who they are.

#### Honors English IV (149)

Prerequisites: English III (135) or Honors English III (139) or AP English Literature (140)

Qualifications: Teacher recommendation; English III grade of B+ or better or a grade of B or better in Honors English III/AP Literature; proof of good writing ability (B+ or better); writing sample; ability in literary analysis; consistency and promptness in doing assignments

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This fourth year English course provides frequent opportunities to write for different audiences and purposes, to continue to practice the writing process, and to utilize sources within their writing. The techniques of analysis are applied through reading, writing, and class discussions. Increased emphasis will be placed on logic, direct evidence, source-based and primary research, closely observed details, underlying assumptions, language, and style.

#### Advanced Placement English Language and Composition (160)

Prerequisites: English III (135) or Honors English III (139) or AP English Literature and Composition (140)

Qualifications: Teacher recommendation; grade of A- or better in English III or a grade of B+ or better in Honors English III or AP Literature; proof of good writing ability (B+ or better); writing sample;

demonstrated ability in literary analysis, as well as strong understanding in the elements of composition; consistency and promptness in doing assignments

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$94 exam fee

Description: This fourth year English course includes the study and analysis of non-fiction in a variety of genres: exposition, persuasion, narrative, etc. The object of the course is to sharpen critical, analytical, and interpretative skills through close reading. Writing projects include essays, short research papers, and impromptu writing. Students enrolled in AP Language are expected to enter the course with a strong foundation in the elements of composition. Since this is an AP course, most time will be spent working on independent analysis of texts and writing and not on reviewing the basic elements of composition. All students enrolled in this course are required to take the AP English Language and Composition exam.

#### Writing for Publishing (172)

Prerequisites: English III (135 or 139) or AP English Literature and Composition (140)

*NB: Juniors working for student publications may take this course without meeting the prerequisites.*

Length: 1 semester

Credit: .5 credit

Description: This fourth year course is offered in the spring semester. Students will gain a basic understanding of the media through case studies, reading, and writing activities. The course will also emphasize the publication skills of journalism: reporting, writing, and editing. Although not specifically tied to the functioning of The Eye, this class will prepare students to be editors and reporters for this and other extracurriculars.

#### Other Worlds - Study of Literature and Culture of Ireland (175)

Qualifications: Open to students registered for the Irish Studies Summer Study Abroad Program

Length: 1 semester + summer travel

Credit: .5 credit

Fees: travel expenses are not covered by tuition

*NB: This course features a dual enrollment with [Other Worlds - Study of Social Justice in Ireland \(975\)](#).*

Description: Since 2008, Saint Ignatius and Walsh Jesuit have partnered to deliver a unique service-learning program in Belfast, Northern Ireland. The program consists of a rigorous academic curriculum of two team taught courses delivered by Saint Ignatius and Walsh Jesuit faculty coupled with lectures by Queen's University (Belfast) professors. Students complete daily reflections coupled with a meaningful cross-community service project. The program structure utilizes the Ignatian pedagogical method of context, experience, reflection, action, and evaluation. The Summer Program cultivates the understanding, knowledge, skills and attitude change that will enable participants to partake in conflict transformation and social justice initiatives at a local, national, and international level.

## FINE ARTS COURSES

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To meet graduation requirements, each student must earn a minimum of 1.5 credits in the Fine Arts consisting of public speaking, computer concepts, and an elective typically taken in the freshman year. Courses in the Fine Arts department are designed to challenge students to creatively develop writing, speaking, listening, and reading skills in addition to artistic skills unique to the Fine Arts. In addition to these skills and in alignment to the mission statement of Saint Ignatius High School, Fine Arts courses will also thematically target the student’s use of a diversity of media for the purposes of interpersonal communication, reflection, openness to new ideas and the formation of the student’s sense of self, sense of others, and sense of the divine. Because the creativity of the individual is key to Fine Arts, most prerequisites can be overridden by permission of the department chair. The course descriptions are listed in four sub-groups: [Communication Arts](#), [Musical Arts](#), [Theater Arts](#), and [Visual Arts](#).

9th Grade	10th Grade	11th Grade	12th Grade
Musical Arts	Computer Concepts	Public Speaking	Fine Arts elective (optional)
~or	~and	~and	~and/or
Rhetorical Arts	Band or Chorus (optional)	Fine Arts elective (optional)	Band or Chorus (optional)
~or		~and/or	
Theater Arts		Band or Chorus (optional)	
~or			
Visual Arts			
~or			
Band or Chorus (optional)			

### Communication Arts Subgroup

#### Rhetorical Arts (715)

Qualifications: 9th grade only except with permission from the department chair

Length: 1 semester

Credit: .5 credit

Description: This course furthers the development of essential skills in written and oral communication. It fosters articulate expression, critical thinking, and moral reflection, enabling students to engage in written and oral public debate with persuasive force and stylistic excellence. This course emphasizes such rhetorical concepts as invention, arrangement, claims with supporting evidence, exigency, and audience. The goal of this course is to form each student in the Jesuit ideal of the good man who writes and speaks well and uses those skills for the benefit of others.

#### Computer Concepts /Applications (725)

Prerequisites: Rhetorical Arts (715), Visual Arts (815), Musical Arts (714), Theater Arts (811), Band (755), or Freshman Chorus (711)

Length: 1 semester

Credit: .5 credit

Description: In a digital world, it is essential that individuals entering the workforce are properly skilled. This course serves not only as an introduction to a wide range of computer related skills, but also as a way for students to prove their proficiency in creating visual demonstrations, using online assessment tools, and with research opportunities. The skill set obtained as a result of the class will be invaluable to the student through his Ignatius career. This class will teach you how to use computers more efficiently and how to be technologically literate in a digital world. Computer literacy and Internet applications will be learned as well. The training modules and assignments will be constructed in the “study it, learn it, show it” approach. This approach will maximize learning retention. The course furthers the development of essential skills in written and oral communication and information literacy, as well as providing opportunities for active engagement with essential components of the Jesuit and Saint Ignatius High School educational traditions.

### Public Speaking (735)

Prerequisites: Computer Concepts/Applications (725)

Length: 1 semester

Credit: .5 credit

Description: This is a performance course designed to introduce basic principles of communication and help students become confident and competent communicators by planning and developing effective speeches that accommodate cultural diversity and target their audience. Students will be given the opportunity to present speeches in both formal platform settings and informal group interactions. Presentations will be both extemporaneous and impromptu, and class discussion and debate (policy and values) on current issues will be a significant component of the course. This is a performance course, with speeches accompanied by related writing assignments and students will evaluate classroom speeches and public discourse to enhance critical thinking and analytic skills.

### AP Research: Public Speaking (740)

See [AP Research: Christian Morality\(940\)](#) in Theology listings

### Argumentation and Rhetoric (745)

Prerequisites: Computer Concepts/Applications (725)

Length: 1 semester

Credit: .5 credit

*NB: For students who have taken [Rhetorical Arts](#), this course will fulfill the public speaking graduation requirement.*

Description: Creative thinking involves creating something new or original. It involves the skills of flexibility, originality, fluency, elaboration, brainstorming, modification, imagery, associative thinking, attribute listing, metaphorical thinking, and forced relationships. The aim of creative thinking is to stimulate curiosity and promote divergence, i.e. Bloom’s Taxonomy. This course is designed to teach strategies for learning how to learn and for critical and creative thinking, including complex problem solving, and examines from a psychological standpoint why people think the way they do. This course helps you identify the strengths and weaknesses in your thinking, avoid common errors in thinking, and develop higher-order thinking skills for personal and professional development.

### Persuasion and Propaganda (748)

Prerequisites: Computer Concepts/Applications (725)

Length: 1 semester

Credit: .5 credit

*NB: For students who have taken [Rhetorical Arts](#), this course will fulfill the public speaking graduation requirement.*

Description: This course examines the history and techniques used in the creation, analysis and presentation of rhetoric. Topics of discussion include censorship, advertising, and mass media propaganda. The areas of analysis include motion pictures, political campaigns, contemporary music and popular culture. Class activities include video production, article analysis, group and individual projects, and class discussion.

## **Musical Arts Subgroup**

### Musical Arts (714)

Qualifications: 9th grade only except with permission from the department chair

Length: 1 semester

Credit: .5 credit

Description: The purpose of this course is to engage the student in the study of music, its various components and influences, composers and performers, and its use and value in people's lives, with special focus on the broad cultural impact of music in our world today. Students will be encouraged to view music in a social context rather than as an abstract concept, and will be given the tools to develop informed decisions about music.

### Freshman Chorus (711)

Qualification: 9th grade only

Length: 2 semesters

Credit: 1 credit

*NB: In addition to class time, all chorus students must attend mandatory afternoon, evening, and weekend rehearsals and performances.*

Description: Students will learn rudiments of solid vocal technique with special emphasis on the changing voice. They will grow in knowledge of reading a musical score including melody and harmony lines, learn to sing intervals, read rhythmic notation. They will develop techniques for sight singing and learn proper stage presence and deportment in choral performances. Freshmen Chorus is strongly recommended for all students seeking to participate in Chorus. Performance required.

### Chorus (721)

Qualifications: 10th, 11th, and 12th grade only

Length: 2 semesters

Credit: 1 credit

*NB: In addition to class time, all chorus students must attend mandatory afternoon, evening, and weekend rehearsals and performances.*

Description: Emphasis is placed on the developing male voice, part-singing, vowel production and breathing techniques. Students will further their knowledge and abilities in sight-reading, harmony singing, and stage presence. Various historical periods and styles of choral music including liturgical music are explored.

#### Music Theory (731)

Prerequisites: Computer Concepts/Applications (725)

Length: 1 semester

Credit: .5 credit

Description: This course covers the fundamental knowledge musicians need to understand music. Students learn the structures of scales, intervals and chords. Note reading and ear training skills are improved through analysis of music and student composition.

#### Band (755)

Length: 2 semesters

Credit: 1 credit

*NB: In addition to class time, all band students must attend band camp at the end of July and attend mandatory afternoon, evening, and weekend rehearsals and performances.*

Description: Band begins the year with marching band. During the marching band season, the Wildcat Marching Band travels throughout the Midwest to support the football team and performs during halftime shows as well as in parades and other special events. Symphonic band begins at the end of marching season and prepares several concerts performed in the winter and spring.

#### Jazz Orchestra (765)

Qualifications: Audition

Length: 2 semesters

Credit: .5 credit

Description: Jazz Orchestra performs a variety of Jazz inspired arrangements throughout the year. The Jazz Orchestra consists of 20-25 members that play various arrangements of Jazz and Swing standards. The Jazz Orchestra is selected by audition, meets regularly as a class, and is graded. This ensemble gives students the opportunity to learn different styles of music and develop improvisational and interpretational skills. The class meets after school twice per week throughout the school year.

#### American Popular Music (772)

Prerequisites: Computer Concepts/Applications (725)

Length: 1 semester

Credit: .5 credit

Description: The purpose of this course is to learn about the socio-cultural parameters, aesthetic parameters, and economic principles of popular music in America from the beginning of the 20th century

through today. This class looks at many different styles of music in America that developed throughout the past 100 years. This will include the development of Tin Pan Alley, Ragtime, Big Band, Rhythm and Blues, Rock and Roll, Motown, New Age, Heavy Metal, Reggae, Hip-hop, and Rap.

#### Advanced Placement Music Theory (780)

Prerequisites: Computer Concepts/Applications (725)

Qualifications: teacher recommendation and approval of department chair; 3.0 GPA or better suggested

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$94 test fee

Description: This full year course is an integrated approach to aural, sight singing, written, compositional and analytical skills. Students will gain speed and fluency with the rudiments and terminology of music and work on common practice techniques such as part writing, tonality, harmony, modulation, phrase structure and formal analysis. All students enrolled in this course are required to take the AP Music Theory exam.

### **Theater Arts Subgroup**

#### Theater Arts (811)

Length: 1 semester

Credit: .5 credit

Description: This course is intended for incoming freshman and Saint Ignatius upperclassman who would like to explore the art of theater. No prior experience with theater is necessary for this course. Students will participate in theater games, script analysis, improvisation, and acting from scripts and monologues. They will also study the history of theater, and report on plays seen in performance and plays read. Modern dramatic theory will be discussed in depth. The course will also introduce technical theater, allowing each student to discover which part of the theatrical team he would like to pursue further—whether at Saint Ignatius or at other theaters

#### Advanced Theater Arts (848)

Prerequisites: Theater Arts (811) or with permission from the department chair

Length: 1 semester

Credit: .5 credit

Description: This course will expound upon the acting theories discussed in the Theater Arts course, recognizing and expanding the unique creative talents of each individual. Through an in-depth study of the works of Konstantin Stanislavski, Lee Strasberg, Stella Adler, Uta Hagen and Sanford Meisner, the student will develop a host of acting “tools” to use when building a character. Improvisational theory as taught at the Upright Citizens Brigade in New York City and Second City in Chicago will also be explored. Students will conclude the semester by applying the various concepts taught over the course to select scenes.

### **Visual Arts Subgroup**

#### Visual Arts (815)

Qualifications: 9th grade only

Length: 1 semester

Credit: .5 credit

Description: This course is an introductory studio art course in which students experiment with a variety of art media before progressing into medium-specific coursework. It is designed to elevate artistic awareness through the exploration of fundamental practices and techniques within two and three-dimensional art media (drawing, painting, clay, sculpture, mixed media, and graphic design.) Students engage in a variety of visual arts experiences that involve a sampling of art production, criticism, and appreciation. It is designed to be experimental, enlightening, and enjoyable.

### *Digital Electives*

#### Computer Animated Design (752)

Prerequisites: Computer Concepts/Applications (725) or permission from the department chair

Length: 1 semester

Credit: .5 credit

Description: This course teaches the fundamentals of computer animated design, modeling, graphic design, and 3D printing using AutoCAD, and leading design software. Whether it's an architectural drawing, a 3D mechanical drawing, an artistic rendering, or even a Geographic Information System (GIS) system, the student will be able to control the image precisely and utilize it to make drawings from scratch, edit existing CAD models and print out quality drawings and 3-dimensional models for any discipline.

#### Digital Animation Production (754)

Length: 1 semester

Credit: .5 credit

Description: This semester course introduces the student to the principles of two-dimensional digital animation. Each student is assigned his own personal computer workstation to complete a series of exercises that incorporate principles of physics, anatomy, and acting to animate 2D characters. The students begin their work by animating simple objects and eventually work on complete character rigs while gaining proficiency in the use of professional animating software.

#### Digital Film Production (756)

Length: 1 semester

Credit: .5 credit

Description: This is a hands-on laboratory class for novice and experienced filmmakers. The class introduces students to framing, composition and shooting techniques through the practical application of shot lists, current digital technology, and professional editing software. Time permitting, students organize, shoot, and edit up to five short film projects.

#### Digital Photography (758)

Prerequisites: Visual Arts (815)

Length: 1 semester

Credit: .5 credit

Description: This course will explore the use of film as a studio experience. The use and techniques of traditional photography will be taught, but the application of photographic principles will be manifest



through digital media. Students will take part in photographic essays, photo journaling, and related studio activities.

#### Web Design (762)

Prerequisites: Computer Concepts/Applications (725)

Length: 1 semester

Credit: .5 credit

Description: This course enhances the individual student's understanding of the principles of design through electronic media. To allow each artist to become more than just a technician, students are taught to use the Web as a creative medium. To allow the individual to discover how principles of design are applied through each work of art, we will explore and examine principles of design as applied through electronic media, specifically the World Wide Web. Class procedures will include lectures, group discussions of existing site designs and techniques, Internet research, and individual/group critiques.

#### *Studio Electives*

#### Drawing (832)

Prerequisites: Visual Arts (815)

Length: 1 semester

Credit: .5 credit

Description: Drawing is a comprehensive exploration in composition, craft, and creativity through the use of various drawing media and technique. The student will experience a unique studio structure that works to develop essential methods of thinking (observing, envisioning, engaging, expressing, etc.) that have a positive impact on the student's artistic and cognitive abilities. A series of projects will be completed that apply the elements and principles of design while engaging the student through different visual encounters and materials. Students learn to ground their artwork in the context of art history and artistic communities. Critique is used as the primary source of reflection.

#### Graphic Design (836)

Prerequisites: Visual Arts (815) and Computer Concepts/Applications (725)

Length: 1 semester

Credit: .5 credit

Description: Graphic Design is an introductory course to computer generated design and visual communication. Students will use creativity and critical thinking practices to produce artwork that shows innovation and engaging methods of design principles through use of digital media. Students will learn how to inspire their viewers through traditional and experimental methods of graphic design including digital rendering and illustration, typography, print design, logo and product design. Students will utilize Adobe Photoshop and Adobe Illustrator for their artwork. This course is intended to kindle curiosity, creativity, and collaboration as students are creating artwork that must interact with broad audiences through the use of a unique, inspiring voice.

#### Advanced Drawing and Painting (842)

Prerequisites: Drawing (832)

Length: 1 semester

Credit: .5 credit

Description: Advanced Drawing and Painting is an accelerated drawing course with an introduction to painting. Students utilize the technical foundation secured in Drawing (832) to support conceptual onset within their artwork. Students master a variety of drawing media in addition to applying their knowledge of composition, creativity, and craft into the medium of paint. This course emphasizes the expansion of thought within fundamental technique. They are increasingly challenged with size, medium, concept and complexity of project. Portfolio preparation is an ongoing aspect of this course, as students enrolled are likely candidates for [Advanced Placement Studio Arts \(880\)](#).

### Graphic Design II (846)

Prerequisites: Graphic Design (836)

Length: 1 semester

Credit: .5 credit

Description: In this course, the student will be challenged to expand on the creative processes learned in Graphic Design (836) to create a cohesive portfolio of work that is centered around an idea for industrial, architectural, or commercial design. The student will create a suite of wide-ranging images that demonstrate knowledge in effective visual communication such as print advertisements, logo creation, business and letterhead design, web and app designs, package design, signage, and architectural renderings. Students enrolled are likely candidates for [Advanced Placement Studio Arts \(880\)](#).

### Three-Dimensional Art (852)

Prerequisites: Visual Arts (815) and Computer Concepts/Applications (725)

Length: 1 semester

Credit: .5 credit

Description: The 3D Art class gives the student an opportunity to work in a variety of three dimensional art media. There is an emphasis on learning the principles and elements of three-dimensional design. Students will develop creative and critical thinking skills as they create works of art in response to their environment. The emphasis of the class is on creating three-dimensional projects. The different media include wire, clay, paper, found objects, plaster and altered books.

### Clay and Sculpture (854)

Prerequisites: Three-Dimensional Art (852)

Length: 1 semester

Credit: .5 credit

Description: Students in Clay and Sculpture course learn and practice the principles and elements of three-dimensional design. Students will strengthen their knowledge of methods and properties unique to working in clay, designing both functional and sculptural pieces. They will have an opportunity to work on the wheel. Sculpture in materials other than clay will be explored. There is an emphasis on developing creative and critical thinking by the students. Current periodicals on ceramics and sculpture are used as reference material. Possible projects may include clay sculpture, clay tiles, functional ceramics, outdoor installations, glass, bronze sculpture, kinetic sculpture and raku firing. Field trips to current exhibits or studios may be fit into the semester if possible.

### Special Topics in FA: Printmaking (856)

Prerequisites: Visual Arts (815)

Length: 1 semester

Credit: .5 elective credit

Description: Printmaking is the process of producing multiple reproductions of a singular image through a variety of techniques. This course will introduce traditional methods of printmaking such as woodcuts, linocuts, intaglio, screen-printing, and monoprinting. Students will also be challenged to utilize technology and digital media to push the boundaries of image creation. Students employ creative and critical thinking methods to produce both technically and conceptually strong artwork.

#### Special Topics in FA: Avionics & Drone Building (856)

Prerequisites: None

Length: 1 semester (Fall)

Credit: .5 elective credit

Description: This course is a design thinking class focused on drones, aeronautics, etc. Students will build an aircraft by designing, soldering, and flight-testing. Students will work toward getting licensed to fly and will get a lot of engineering experience. All students will take the pilot's exam. This could be a good pairing with any of the robotic experts.

#### Special Topics in FA: Jewelry/Metals (856)

Prerequisites: Visual Arts (815)

Length: 1 semester

Credit: .5 elective credit

Description: This course is designed to introduce students to metalsmithing as an art form. It will focus on the basic techniques necessary for the design and fabrication of jewelry and small objects. The focus will be on traditional techniques and materials, as well as contemporary considerations of concept, design, and experimentation. The fundamentals of metalsmithing introduced will be fabrication, cold joining, soldering, and finishing. Students will be taught through a series of demonstrations, critiques, lecture, presentations, and guided work time. Each student will create "one of a kind" pieces in this medium that will be accompanied by a visual journal/portfolio as a record of its construction from inception to exhibition.

#### Advanced Placement Studio Arts (880)

Prerequisites: any two courses from the [visual arts subgroup](#) or instructor permission

Qualifications: teacher recommendation and approval of department chair; 3.0 GPA or better suggested

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$94 testing fee

Description: This course is designed for highly motivated students who are seriously interested in the study and production of art. This course requires more commitment and accomplishment than typical high school courses. All students enrolled in this course must produce a high quality portfolio to submit for College Board evaluation.

## HEALTH/PHYSICAL EDUCATION COURSES

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To meet graduation requirements, each student must earn 1 credit in Health and Physical Education courses consisting of two semesters of Physical Education and one semester of Health. Through our physical education curriculum, we teach teamwork and good sportsmanship in addition to the importance of physical fitness. The health classes ensure that students understand the value of good emotional, physical and mental health.

9th Grade	10th Grade	11th Grade	12th Grade
PE I (except Band and Chorus)	PE II (except Band and Chorus)	Health	

### Physical Education I (615)

Length: 1 semester

Credit: .25 credit

Description: The primary goal of this course is to build a foundation for lifelong fitness.

Students will accomplish this by participating in fitness training/testing, soccer, floor hockey, team handball, basketball, track and field, strength/conditioning training, and polar heart rate activities. While building upon the current skills they bring to each activity students will learn rules of each activity along with developing sportsmanship with their classmates.

### Physical Education II (625)

Prerequisites: Physical Education I (615)

Length: 1 semester

Credit: .25 credit

Description: In this course, team and individual sports are emphasized along with their respective strategies. Variations of competitive situations are used – modification of rules to evolve a different game from the same basic skills. Imagination and creativity by the student are encouraged to modify or adapt the skills and strategies learned in a game he enjoys. Activities include fitness testing, softball, flag football, volleyball, speedball, golf, and cardiovascular training.

### Health (635)

Prerequisites: Physical Education II (625)

Length: 1 semester

Credit: .5 credit

Description: This course is divided into two areas: first aid and human sexuality. By completing this course, students will be able to effectively deal with emergency situations described in the Red Cross First Aid Handbook. Practical application, in conjunction with recognition of signs and symptoms, will be emphasized. Certification for first aid skills and CPR skills are possible for each student to achieve in this course. The approach to sexuality in this class is more than the mere teaching of anatomy. Upon learning that sexuality involves thoughts, feelings, and attitudes about one's self and others, students will be able to make mature decisions in regard to their own sexuality. Areas covered in this course include male and female roles, the reproductive systems, menstruation, pregnancy and birth, birth defects, birth control, and sexually transmitted diseases.

## HISTORY COURSES

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To meet graduation requirements, each student must earn 3 credits of history courses. World History (1 credit) and United States History (1 credit) are required courses. The final required credit is met by taking any of the electives offered by the department but must include at least a .5 credit of civics (e.g., US Government; Civil Rights and Liberties, or AP US Government). The History Department offers a rich and challenging curriculum that stresses critical thinking, research skills, and the communication of ideas through both traditional writing assessments and digital media. In addition to our standard college preparatory track, students at Saint Ignatius also have the opportunity to earn college credit through the Advanced Placement program in history and social science courses in each of their four years.

Through their history classes, Saint Ignatius students are challenged to learn the lessons of the past and apply that knowledge to contemporary issues. It is the aim of the department to help students develop their writing, research, reading, and listening skills, as well as to provide a curriculum that stresses critical thinking, including effectively evaluating the reliability of research material. Finally, the department is engaged in helping the students to embody the profile of the Jesuit "Graduate at Graduation" - becoming open to growth, intellectually competent, religious, loving, and committed to doing justice.

9th Grade	10th Grade	11th Grade & 12th Grade
World History ~or AP Mod World History	U.S. History ~or AP U.S. History	<i>any combination of the following equaling at least 1 credit:</i> Cleaveland History Const.Law: Civil R&L Economics AP Economics Entrepreneurial Studies AP European History U.S. Government* AP U.S. Government* <i>*Includes Personal Finance Graduation Requirement*</i>

World History (315)

Length: 2 semesters

Credit: 1 credit

Description: This is a survey of the major cultures which have developed in Africa, Asia, Europe, and the Americas since the dawn of civilization. Students are presented with a series of lectures, audio-visual supplements, and readings to acquaint them with the men and women who have been the moving forces behind the major events in history. They are encouraged to look for relationships among historical events, to explore the flow of the past into the present, and to employ the past in suggesting the course of the future.

AP Modern World History (320)

Co-Requisite: [Honors English I \(119\)](#)

Qualifications: Entrance exam score of 90th percentile or higher, grade school grades of A- or better, and recommendation of grade school teachers for advanced coursework

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$94 testing fee

Description: This course imparts the knowledge expected of the students in the standard World History class with more breadth and depth. Students are expected to make strong connections between the events of the past and the historical trends of today. An understanding of the information at several different levels is expected. Students will also be charged with projects and papers that expand their learning into activities that prepare them for the future. Students will be prepared for and encouraged to take the AP World History exam.

### United States History (325)

Prerequisites: World History (315 or 319)

Length: 2 semesters

Credit: 1 credit

Description: This course is a full-year survey of the major developments in the history of the United States from the Revolution to the 21st century. In this course students will examine the events, ideas, and individuals that have shaped the American experience, with special emphasis on the political and ideological foundations of our nation, and the challenges that have shaped it from the Civil War to the present. In addition to deepening their knowledge of United States history, students will develop and strengthen historical thinking skills such as sourcing, contextualization, corroboration, and critical reading.

### Advanced Placement United States History (330)

Prerequisites: World History (315 or 319)

Qualifications: A- or better in World History, a cumulative GPA of 3.3 or better, and recommendation from the World History instructor

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$94 testing fee

Description: This course focuses on developing students' understanding of American history from approximately 1491 to the present. The course has students investigate the content of U.S. history for significant events, individuals, developments, and processes in nine historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. The course also provides seven themes (American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society) that students explore throughout the course in order to make connections among historical developments in different times and places. Students will be prepared for and required to take the AP U.S. History exam.

### United States Government (335)

Prerequisites: United States History (325 or 330)

Co-Requisite: Personal Finance (342)

*NB: students who have taken or are currently enrolled in AP Government (340) cannot take this course.*

Length: 1 semester

Credit: .5 credit

Description: This course is a semester-long elective course that will give students a thorough understanding of structure and powers of national, state, and local government in the United States. Major emphasis is placed upon the separation of powers, comparisons with other forms of government, and the role of the Congress and the Presidency. Special attention is given to individual freedoms and responsibilities as guaranteed by the Bill of Rights, focusing on the manner in which the Supreme Court has interpreted them in over 200 years of decisions.

#### Advanced Placement United States Government and Politics (340)

Prerequisites: United States History (325 or 330)

Co-Requisite: Personal Finance (342)

Qualifications: cumulative 3.5 GPA and an A- or higher average in previous history courses

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$94 testing fee

Description: This course will give students an analytical perspective on government and politics in the United States. This two-semester course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students successfully completing this course will be able to describe and compare important facts, concepts, and theories pertaining to U.S. government and politics; explain typical patterns of political processes and behavior and their consequences (including the components of political behavior, the principles used to explain or justify various government structures and procedures, and the political effects of these structures and procedures); interpret basic data relevant to U.S. government and politics (including data presented in charts, tables, and other formats); and critically analyze relevant theories and concepts, apply them appropriately, and develop their connections across the curriculum. Students will be prepared for and required to take the AP US Government and Politics exam.

#### Personal Finance (342)

Prerequisites: United States History (325 or 330)

Co-Requisite: United States Government (335), AP United States Government and Politics (340), or Constitutional Law / Civil Rights and Liberties (362)

Qualifications: None

*NB: students are automatically enrolled in this course concurrently with US Government (335) or AP US Government (340) or Constitutional Law (362).*

Description: This self-paced online course guides students to understanding and skills in such areas as money management, budgeting, financial goal attainment, the wise use of credit, insurance, investments, and consumer rights and responsibilities. This course will give students the tools and resources needed to make wise financial decisions. Students will analyze their personal financial decisions, evaluate the costs and benefits of their decisions, recognize their rights and responsibilities as consumers, and apply the knowledge learned to financial situations encountered later in life.

### Economics (345)

Prerequisites: United States History (325 or 330)

Qualifications: None

*NB: students who have taken or are currently enrolled in AP Economics (350) cannot take this course.*

Length: 1 semester

Credit: .5 credit

Description: This course is a semester-long elective course that endeavors to give the learner a view of the world that recognizes the importance of our economy. The student will be able to describe the basic components of our economy and explain why it is vital to the health of our society overall. The course itself is divided into six basic units: Basic Market Supply and Demand, Business and Labor, Money and Banking, Fiscal Policy, Personal Finance, and Ethics and the Global Economy.

### Advanced Placement Economics (350)

Prerequisites: United States History (325 or 330)

Qualifications: 3.7 cumulative GPA

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$188 testing fee

Description: This course prepares students for both the AP Microeconomics and the AP Macroeconomics exams which students are required to take. The first semester will delve into topics that include the behavior of markets and individuals within them. Students will gain a deep understanding on how governments impact market efficiency. In the second semester, studies will emphasize the broader interaction of markets on national and global scales. Particular attention is given to national income, productivity, and economic performance in the international arena. This course is college-level and very challenging. It is recommended for students who possess a keen interest in economics and business. This course fulfills the personal finance graduation requirement.

### Cleveland History (352)

Prerequisites: United States History (325 or 330)

Length: 1 semester

Credit: .5 credit

Description: The Cleveland History course (and yes, it's supposed to be spelled that way) is a semester-long elective course. The focus of the course is the history of the city of Cleveland, from its founding, growth, era of greatness, period of decline, to the present day. Special emphasis will be placed on examining cultural, economic, political, and social issues. Once given the history of the city, students will then explore modern problems that the city faces.

### Entrepreneurial Studies (356)

Prerequisites: United States History (325 or 330)

Length: 1 semester

Credit: .5 credit

Description: This course examines how entrepreneurship plays a crucial role in the health of our overall economy. The focus will be on innovation, vision, venture capitalism, capital formation, business



growth, and hard work. At the end of the semester, a student will be well versed in business terminology, appreciate entrepreneurial creativity, recognize their hard work, and describe how new businesses positively impact our society. This course fulfills the personal finance graduation requirement.

#### Advanced Placement European History (360)

Prerequisites: United States History (325 or 330)

Qualifications: a minimum cumulative GPA of 3.0 or better is recommended

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$94 testing fee

Description: This course focuses on developing students' understanding of European history from approximately 1450 to the present. The course has students investigate the content of European history for significant events, individuals, developments, and processes in four historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. The course also provides five themes (interaction of Europe and the world, poverty and prosperity, objective knowledge and subjective visions, states and other institutions of power, and individual and society) that students explore throughout the course in order to make connections among historical developments in different times and places. Students will be prepared for and required to take the AP European History exam.

#### Constitutional Law: Understanding Civil Rights and Liberties (362)

Prerequisites: United States History (325 or 330)

Co-Requisite: Personal Finance (342)

Length: 1 semester

Credit: .5 credit

Does the 1st Amendment protect hate speech? Can a school principal censor the student newspaper? Do mandatory background checks violate the 2nd Amendment's right to bear arms? Can the police search your vehicle without a warrant? Is the death penalty "cruel and unusual" punishment? This one-semester survey will explore these questions and more as it examines the civil rights and personal liberties embodied in the Bill of Rights and the 14th Amendment of the US Constitution. Through a case-study approach, students will examine actual Supreme Court decisions to gain a deeper understanding of the origins and applications of the Bill of Rights. Special focus will be placed on the role of the judiciary in defining (and sometimes redefining) individual freedoms including freedom of expression and religion, criminal procedure and the rights of the accused, and civil rights protections against discrimination.

### **LANGUAGES COURSES**

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To meet graduation requirements, each student must earn three credits in foreign language courses. This credit must be earned through consecutive years of study in the same language. However, four years of French, Latin, Spanish and Mandarin Chinese are offered and a fourth year of language study is highly recommended. Students can elect to take a second language as a junior or senior from any of

the previously mentioned languages and in ancient Greek, as well. Assignments for the courses and allocation of class time will be aimed at developing the student's aptitude in reading, writing, listening, and speaking in the target language. The study of the language and culture of other peoples will provide the student with the opportunity to see the world through different eyes, thus making him open to growth in his understanding of others and of new situations. The study of language is intellectually challenging and requires a high level of analytical skill which will develop the student's knowledge, intellectual acuity, self-discipline, and understanding of the world around him. Students are also encouraged to pursue travel opportunities offered by the school to enjoy language and culture beyond what they learn in the classroom.

9th Grade	10th Grade	11th Grade	12th Grade
French I ~or Honors French I	French II ~or Honors French II	French III ~or Honors French III	French IV ~or Honors French IV ~or AP French
Latin I ~or Honors Latin I	Latin II ~or Honors Latin II	Latin III ~or Honors Latin III ~ and Honors Greek I, II, or III (optional)	Latin IV ~or Honors Latin IV ~or AP Latin ~and Honors Greek I, II, or III (optional)
Mandarin I	Mandarin II	Mandarin III ~or Honors Mandarin III	Mandarin IV ~or Honors Mandarin IV or V
Spanish I or Spanish II or Honors Spanish II	Spanish II ~or Honors Spanish II Or Spanish III or Honors Sp III	Spanish III ~ or Honors Spanish III	Spanish IV ~or Honors Spanish IV ~or AP Spanish

\* *Students may test into more advanced levels in any of the foreign languages.*

\* *The additional electives of [Etymology \(452\)](#) and [Mythology \(454\)](#) may be taken by any student irrespective of his language courses as an elective during the Junior or Senior year.*

#### French I (415F)

Length: 2 semesters

Credit: 1 credit

Description: French I is the first course of a three-year requirement in foreign language. The student is introduced to Francophone cultures and will learn to perform basic linguistic functions in all four modes: speaking, listening, reading and writing but with an emphasis on speaking and listening. Some of the functions include greeting, thanking and taking leave of someone; making introductions, invitations,

complaints, excuses and predictions; asking for, giving and restating information; agreeing, disagreeing, negotiating and insisting; expressing opinions, need, emotions, and intentions; ordering food and beverages, asking for prices, time and permission; describing daily routines, physical and character traits and family members; identifying nationalities and professions; and purchasing items.

### Honors French I (419F)

Qualifications: previous experience in French and placement test

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: Honors French I is the first course of a three-year requirement in foreign language. The student is introduced to Francophone cultures and will learn to perform basic linguistic functions in all four modes: speaking, listening, reading and writing but with an emphasis on speaking and listening. Some of the functions include greeting, thanking and taking leave of someone; making introductions, invitations, complaints, excuses and predictions; asking for, giving and restating information; agreeing, disagreeing, negotiating and insisting; expressing opinions, need, emotions, and intentions; ordering food and beverages, asking for prices, time and permission; describing daily routines, physical and character traits and family members; identifying nationalities and professions; and purchasing items.

### French II (425F)

Prerequisites: French I (415F) or previous experience in French and placement test

Length: 2 semesters

Credit: 1 credit

Description: The student will learn to perform intermediate linguistic functions in all four modes: speaking, listening, reading and writing. Some of the functions include writing invitations, postcards and letters, giving information, opinions, orders and directions, describing character, physical traits, past events, daily routines, talents and abilities, and intentions, making suggestions and predictions, comparing, reporting, hypothesizing and sequencing events.

### Honors French II (429F)

Prerequisites: French I (415F or 419F)

Qualifications: Grade of A- or better from the previous school year in a standard level French course or a grade of B+ or better in an honors level French course, an excellent homework record, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: The student will learn to perform intermediate linguistic functions in all four modes: speaking, listening, reading and writing. Some of the functions include writing invitations, postcards and letters, giving information, opinions, orders and directions, describing character, physical traits, past events, daily routines, talents and abilities, and intentions, making suggestions and predictions, comparing, reporting, hypothesizing and sequencing events. In addition to the regular French II curriculum, honors students will read, discuss and write about additional varied passages, select extra projects of interest, give oral exposés and in general treat topics in greater depth.

### French III (435F)

Prerequisites: French II (425F or 429F) or previous experience in French and placement test

Length: 2 semesters

Credit: 1 credit

Description: Emphasis is continued on speaking French with a greater focus on reading and writing skills. Advanced grammar and the practice of these skills are organized around ten cultural themes: school and pastimes, relationships, the arts, careers and work, travel, technology and the environment, French culture, French history, French-speaking Africa, and health.

### Honors French III (439F)

Prerequisites: French II (425F or 429F) or previous experience in French and placement test

Qualifications: Grade of A- or better from the previous school year in a standard level French course or a grade of B+ or better in an honors level French course, an excellent homework record, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: Emphasis is continued on speaking French with a greater focus on reading and writing skills. Advanced grammar and the practice of these skills are organized around ten cultural themes: school, work, storytelling and legends, friendship, nature, the press, the environment, government, the arts, and travel. The students will also be introduced to the basic concepts and terminology of textual analysis to develop the ability to read and analyze critically and to discuss perceptively representative works of Francophone literature.

### French IV (445F)

Prerequisite: French III (435F or 439F) or previous experience in French and placement test

Length: 2 semesters

Credit: 1 credit

Description: This course is a set of four one-quarter courses:

1. Conversation and composition: a review of grammar and major cultural themes with guided practice in techniques for writing and speaking with a special focus on descriptions and circumlocution.
2. History of France: Prehistoric times, Antiquity, the Middle Ages, the Ancien Regime, and the 19th-20th centuries.
3. Literature: a collection of representative short stories, plays, and poems from the 19th and 20th centuries.
4. Culture: an examination of how many French institutions (the State, school system, economy, art, language) have served to unify many diverse peoples and create a French identity. Writing and speaking with a review of grammar, and fluent conversational ability. Work is done on phonetics.

### Honors French IV (449F)

Prerequisites: French III (435F or 439F) or previous experience in French and placement test

Qualifications: Grade of A- or better from the previous school year in a standard level French course or a grade of B+ or better in an honors level French course, an excellent homework record, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This course is designed to introduce students who have advanced language skills to the formal study of a representative body of literary texts in French. Classes will include close reading and extensive discussion of texts with particular attention to character and theme, structure and style, and to how these elements are related to overall interpretation. To reach these goals, students will learn the techniques of literary analysis as well as a basic vocabulary of critical terms, both of which they need to use appropriately when studying French literary texts. By learning to identify and interpret the various elements that enter into the composition of a literary text and to perceive their relationships, students acquire a fuller understanding and appreciation of the art and significance of literature. Class discussion and essay writing in French are important components of this course.

#### Advanced Placement French Language (450F)

Prerequisites: French III (435F or 439F) or higher

Qualifications: A grade of A- or better from the previous school year in a standard level French course or a grade of B+ or better in an honors level French course, an excellent homework record, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$94 testing fee

Description: Students that enroll in AP French IV Language should already have a good command of French grammar and vocabulary and have competence in listening, reading, speaking and writing. The course emphasizes the use of language for active communication and helps students develop the ability to understand spoken French in various contexts; a French vocabulary sufficiently ample for reading newspaper and magazine articles, literary texts, and other non-technical writings without dependence on a dictionary; and the ability to express themselves coherently, resourcefully, and with reasonable fluency and accuracy in both written and spoken French. Course content reflects intellectual interests shared by the students and teacher (the arts, current events, literature, sports, etc.) Extensive training in the organization and writing of compositions is emphasized. All students enrolled in this course are required to take the AP French Language exam.

#### Honors Greek I (439G)

Qualifications: 11th or 12th grade only and teacher recommendation

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This course provides an introduction to the Greek language of Homer's Iliad and Odyssey through learning the Greek alphabet, basic grammar, and important vocabulary. In the second half of the course, students read passages from Homer's Odyssey, one of the greatest adventure stories in Western literature. Students also investigate, on the basis of personal interest, various aspects of Greek life and culture.

#### Honors Greek II (449G)

Prerequisites: Honors Greek I (439G)

Qualifications: Teacher recommendation

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This course is a continuation of Greek I, in which further selections from Homer's Odyssey and Iliad are read in the original Greek. Further investigation into various aspects of Greek society and its influence on the modern world is conducted, including such topics as Greek athletics, mythology, philosophy, law enforcement, history, etc.

#### Honors Greek III (459G)

Prerequisites: Honors Greek II (449G)

Qualifications: Teacher recommendation

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: Greek III deals with the transition from the Greek of Homer to that of Plato, Herodotus and the New Testament. Cultural and historical investigations of Greek life are an integral part of this course, including, for example, the battle of Thermopylae, the Persian invasions, philosophy in Athens, the trial of Socrates, and other topics as well.

#### Latin I (415L)

Length: 2 semesters

Credit: 1 credit

Description: Latin I is the first course of a three-year requirement in foreign language. The first-year course includes cultural material about Roman life, government, education, literature, and art – all of which influenced later civilizations. The principal emphasis is on the Latin language itself and its influence on the English language as well as on the Romance languages.

#### Honors Latin I (419L)

Qualifications: Previous experience in Latin

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: Honors Latin I is the first course of a three-year requirement in foreign language. The first-year course includes cultural material about Roman life, government, education, literature, and art – all of which influenced later civilizations. The principal emphasis is on the Latin language itself and its influence on the English language as well as on the Romance languages. Honors Latin I assumes the mastery of the 1st and 2nd Declension nouns and adjectives (including ER adjectives) and the formation/translation of the present, imperfect, and future tenses of 1st conjugation verbs. For those interested in testing into Honors Latin I, a list of vocabulary, grammar and skills is available on the Languages website.

#### Latin II (425L)

Prerequisites: Latin I (415L or 419L)

Length: 2 semesters

Credit: 1 credit

Description: Latin II includes a review of material learned in Latin I along with an inclusion of more grammar and syntax. The course is divided into three parts. The first reviews grammar and syntax learned in Latin I; the second part covers further grammar and vocabulary; the third, and most integral part of the course, promotes the translation of Latin to English with special emphasis on Latin constructions, using adapted Latin texts.

### Honors Latin II (429L)

Prerequisites: Latin I (415L or 419L)

Qualifications: A grade of A- or better from the previous school year in a standard level Latin course or a grade of B+ or better in an honors level Latin course, an excellent homework record, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This course consists of a thorough review of grammar along with the introduction of the subjunctive mood and all of its clauses. Students will then move into translation with a heavy emphasis on grammar and syntax. Students will read the Hercules stories, Jason and the Argonauts, and portions of Caesar's Commentaries on the Gallic Wars, Books 1 and 7. Individualized projects will incorporate other aspects of Roman culture into the course.

### Latin III (435L)

Prerequisites: Latin II (425L or 429L)

Length: 2 semesters

Credit: 1 credit

Description: Latin III students continue their immersion into translation of the Latin language by translating the adapted stories in Fabulae Romanae, stories of the foundation and early history of Rome from the famous historian Livy. Students will continue to build mastery of vocabulary, grammar and syntax through translation. Student projects will further students' understanding of Roman culture, civilization and history.

### Honors Latin III (439L)

Prerequisites: Latin II (425L or 429L)

Qualifications: A grade of A- or better from the previous school year in a standard level Latin course or a grade of B+ or better in an honors level Latin course, an excellent homework record, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This course offers the Latin student the opportunity to work alongside other top achievers in the language as he learns to read authentic Roman texts with skill and confidence. The readings, which are covered in depth, trace the history of Rome from its founding to the rise of Augustus, affording the student a source-based look at Rome's evolution from a small town to a global super power. Authors to be studied include Cicero, Caesar, Sallust, Tacitus, Ovid, and others.

### Latin IV (445L)

Prerequisites: Latin III (435L)

Length: 2 semesters

Credit: 1 credit

Description: Latin IV students will primarily translate the adapted stories contained in the book Fabulae Graecae. These stories mainly deal with the mythological stories that were so important to the Greeks

and Romans. Students will continue to master vocabulary, grammar and syntax through the translation of these stories. Student projects will assist in the learning of Roman culture, civilization and history.

#### Honors Latin IV (449L)

Prerequisites: Latin III (435L or 439L)

Qualifications: A grade of A- or better from the previous school year in a standard level Latin course or a grade of B+ or better in an honors level Latin course, an excellent homework record, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This course is designed to cover material in an extensive and in-depth manner. The course follows the syllabus of poems for the former AP Latin Lyric Poetry Exam, though the AP Exam itself is no longer administered. Lyric Poetry comes in a wide variety of styles and deals with many different topics. However, lyric poets, such as Catullus and Horace, discuss their feelings, loves, hates, and personal philosophies. The Latin lyric poets – Catullus and Horace – were the ancient songwriters of their times – the reason that even today the words of songs are called “lyric.” This course allows the students to read selections from different Roman poets, such as Catullus and Horace.

#### Advanced Placement Latin (450L)

Prerequisites: Honors Latin III (439L)

Qualifications: Grade of B+ or better in Honors Latin III, excellent homework record for three previous years and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$94 testing fee

Description: This course is designed to cover material in an extensive and in-depth manner in order to prepare the student for possible college credit via the national Advanced Placement Latin Exam. Students read two works of Roman literature: Julius Caesar's Commentaries on the Gallic War, and Publius Vergil's Aeneid. All students enrolled in this course are required to take the AP Latin exam.

#### Etymology (452)

Qualifications: 11th or 12th grade

Length: 1 semester

Credit: .5 credit

Description: The Etymology course deals with the study of word origins. The student examines how words are made from Latin and Greek. The objective of this course is to improve the student's working English vocabulary (this course is an excellent preparation for standardized tests like the SAT). The course will also cover terminology used in the legal and medical fields.

#### Mythology (454)

Qualifications: 11th or 12th grade only

Length: 1 semester

Credit: .5 credit

Description: This course examines stories and myths from ancient Greece and Rome based on classical texts. The Greek myths will be drawn from Homer (Iliad/Odyssey), Hesiod (Theogony), and



the tragedians (Euripides, Sophocles, Aeschylus). Vergil's Aeneid and Ovid's Metamorphoses will provide the basis for the Roman myths. Other Greek and Roman authors will be referenced throughout the course.

#### Mandarin Chinese I (415M)

Qualifications: admission to Mandarin program is by application

Length: 2 semesters

Credit: 1 credit

Description: Mandarin Chinese I is the first course of a three-year requirement in foreign language. Students are introduced to Mandarin Chinese language and culture and will learn to perform basic linguistic functions in all four modes: speaking, listening, reading and writing, with an emphasis on speaking and listening. Besides learning the basic rules of Chinese character writing and Chinese phonetic forming, students focus on communicative skills in everyday conversation. Some of the functions include making a self-introduction as well as introductions of others; describing daily routines, physical and character traits and family members; expressing emotions, opinions, likes and dislikes of food and drink, colors, clothing, and sports.

#### Mandarin Chinese II (425M)

Prerequisite: Mandarin Chinese I (415M) or previous experience with Chinese and placement test

Length: 2 semesters

Credit: 1 credit

Description: Students will continue to learn about Chinese language and cultures and will learn to perform intermediate linguistic functions in all four modes: speaking, listening, reading and writing. Students will continue to apply the knowledge of Chinese phonetics and Chinese character writing system into real problem solving, such as learning Chinese character input system in computers and other electronic devices. Some of the linguistic functions include locating objects, identifying professions, making phone calls, giving and receiving invitations, ordering food, talking about Chinese holidays and different seasons, purchasing items and talking about hobbies.

#### Mandarin Chinese III (435M)

Prerequisite: Mandarin Chinese II (425M) or previous experience with Chinese and placement test

Length: 2 semesters

Credit: 1 credit

Description: Emphasis is continued on speaking Chinese with a greater focus on reading and writing skills. Advanced grammar and the practice of these skills will be designed in different contextual settings with different cultural themes. This course will continue to use the communicative interactive approach. Students will be able to:

1. Participate in complex conversations.
2. Understand and relate instructions, directions, and commands on familiar subjects.
3. Read and comprehend authentic and historical features of Chinese cultures.
4. Read and comprehend authentic texts.

#### Mandarin Chinese IV (445M)

Prerequisites: Mandarin Chinese III (435M) or previous experience with Chinese and placement test

Length: 2 semesters

Credit: 1 credit

Description: Students will learn to communicate more effectively in real life situations using authentic materials such as newspaper and magazine articles, websites, films, music, and Chinese literature. Students will explore significant events, people, and themes of Chinese history. They will learn about contemporary Chinese society and culture by examining Chinese cultural products, practices and perspectives. Students will be able to:

1. present the ethnic and regional diversity and the values behind the practices;
2. compare and contrast American culture and Chinese culture;
3. express themselves on topics such as travel and migration, holidays and food, and current affairs.

### Spanish I (415S)

Length: 2 semesters

Credit: 1 credit

Description: Spanish I is the first course of a three-year requirement in foreign language. This course is proficiency-oriented. It is based on an integrative approach of the four skills of listening, speaking, reading and writing within a cultural context which is designed to allow for a maximum amount of interaction among students, and between students and the teacher. The students will have many opportunities to practice Spanish in real life situations. Methods include: drills, cooperative learning activities, writing, listening and speaking, and computer designed practice.

### Spanish II (425S)

Prerequisites: Spanish I (415S) or by placement test

Length: 2 semesters

Credit: 1 credit

Description: This course builds on previously learned material by recombining vocabulary, grammar and syntax into new and creative mode of expression. The students learn to function as accurately as possible in situations they are most likely to encounter with Spanish speakers. In proficiency-oriented, integrative approach, the four skills and culture reinforce one another in an ever-widening spiral.

### Honors Spanish II (429S)

Prerequisites: Spanish I (415S or 419S) or by placement test

Qualifications: Grade of A- or better from the previous school year in a standard level Spanish course or a grade of B+ or better in an honors level Spanish course, an excellent homework record, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This course provides the opportunity for students who are highly proficient in Spanish I skills to be grouped homogeneously. The course work is similar to Spanish II, but more time is utilized in conversation and student interaction. Hispanic culture and influences will be emphasized through projects and essays. A more in-depth approach of content and culture will be taken in regard to the performance objectives of Spanish II.

### Spanish III (435S)

Prerequisites: Spanish II (425S or 429S) or by placement test

Length: 2 semesters

Credit: 1 credit

Description: This course will review and present new grammar elements in a contextual inter-related setting. This course will continue to use the communicative interactive approach. Receptive skills received additional emphasis and culture becomes the centerpiece of instruction. The student will be able to:

1. Understand, speak, and write Spanish in complete sentences consisting of learned material.
2. Participate in complex conversations that have more than one idea or concept.
3. Understand and relate instructions, directions, and commands on familiar subjects.
4. Read and comprehend authentic and historical features of Spain, Mexico, and Latin America.
5. Read and comprehend authentic text.
6. Be exposed to and develop an appreciation of the Hispanic world.

### Honors Spanish III (439S)

Prerequisites: Spanish II (425S or 429S) or by placement test

Qualifications: Grade of A- or better from the previous school year in a standard level Spanish course or a grade of B+ or better in an honors level Spanish course, an excellent homework record, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This course is designed to help students achieve the intermediate level of proficiency in the four skills: reading, writing, listening, and speaking within a cultural context. Selection of the students for this course is based on a strong recommendation by their Spanish teachers. The course goes beyond the performance objectives outlined in the Rubrics of Spanish III in terms of the depth and the extent of the content. This course is designed to prepare the student for either the Honors Spanish IV course or the AP Spanish Language course.

### Spanish IV (445S)

Prerequisites: Spanish III (435S or 439S)

Length: 2 semesters

Credit: 1 credit

Description: This course is to help students to develop practical communicative skills in Spanish and familiarize them with Hispanic culture through authentic literary reading and relevant contemporary sociocultural information. Grammar will be fully integrated within a cultural context and presented both as a review and as an introduction to the more advanced structures of the language. The student will be able to:

1. Reinforce and further his knowledge of other disciplines through the study of Spanish.
2. Demonstrate understanding of his own culture through comparisons of cultures and their own.
3. Understand and interpret written and spoken language on a variety of topics.
4. Present information, concepts, and ideas in written and spoken form.

Successful completion of this course may make the student eligible for the Ohio Seal of Biliteracy (depending on testing requirements).

### Honors Spanish IV (449S)

Prerequisites: Spanish III (435S or 439S)

Qualifications: Grade of A- or better from the previous school year in a standard level Spanish course or a grade of B+ or better in an honors level Spanish course, an excellent homework record, and teacher recommendation.

Length: 2 semester

Credit: 1 credit

Additional GPA Weighting: .25

Description: The Honors Spanish IV course is designed for students who have exhibited strength in their studies of Spanish. In order to enroll in the course, the student must have successfully completed either the standard Spanish III course or the Honors Spanish III course. He must also have received the approval of his teacher from the previous year. The Honors Spanish IV course may be either the final Spanish course the student takes at Saint Ignatius or it may lead to the Advanced Placement Spanish Language course.

The course is intended to provide the student with an intense and in-depth study of Spanish. It strives to develop more completely the student's listening, speaking reading, and writing skills. The student also studies a variety of aspects of the cultures of Spanish-speaking peoples. A particular emphasis is the literature of Spanish speaking authors. The pace of instruction is intense and challenging. Detailed study and review of grammatical structures and applications of those structures comprise a fundamental component of the course. The student is required to produce quality work on a wide range of assignments, projects, and writing tasks. Successful completion of this course may make the student eligible for the Ohio Seal of Biliteracy (depending on testing requirements).

#### Advanced Placement Spanish Language (450S)

Prerequisites: Honors Spanish III (439S)

Qualifications: Minimum 3.0 cumulative GPA and teacher recommendation

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$94 testing fee

Description: This course provides students with the opportunity to pursue college-level work and receive college credit. Students will be exposed to a large variety of materials and genres that will help them expand their knowledge of formal and informal Spanish, both in oral and written form. The course will include a structured review of grammar with emphasis on finer points of distinction; creative listening, speaking and writing practice, and a variety of readings of literary and cultural significance.

The student will be able to:

1. Understand spoken Spanish in a variety of informal and formal contexts.
2. Understand both direct and inferred meaning from a variety of media: newspaper and magazine articles, letters, instructions, short stories, poetry, and short plays.
3. Perform both in speaking and in writing, formal and informal functions, such as give instructions, request information, narrate, argue, convince, apologize and describe.

Students will be prepared for and required to take the AP Spanish Language exam. During the summer preceding the course, the student is required to do the independent work that is assigned. Successful completion of this course may make the student eligible for the Ohio Seal of Biliteracy (depending on testing requirements).

## MATHEMATICS COURSES

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To meet graduation requirements, each student must earn 4 credits in mathematics courses, including Algebra II or equivalent. It is strongly recommended by the department and college counseling to finish the 4 year requirement on the calculus track, finishing with PreCalculus, AP Calculus, or Multivariable Calculus. Students are able to supplement the core courses with electives in AP Statistics and computer science. Placement in honors or AP level courses must be accompanied by the recommendation of the previous year's teacher and the department chair.

9th Grade	10th Grade	11th Grade	12th Grade
Algebra I ~or Honors Algebra I	Geometry ~or Honors Geometry	Algebra II ~or Honors Algebra II ~or Honors Algebra II Trig with Limits ~and AP Statistics (optional) ~and Java I or AP Computer Sci (optional)	PreCalculus ~or Honors PreCalculus ~or AP Calculus ~or Multivariable Calculus ~and AP Statistics (optional) ~and Java I, AP Comp Sci, or Java III (optional)

\* *Students may test into more advanced levels in mathematics.*

\* *Students not ready for Algebra I in the 9th grade are placed into the Fundamentals of Algebra class and then follow the normal progression, i.e. Algebra I in 10th grade, Geometry in 11th grade, etc.etc.*

### Fundamentals of Algebra (211)

Qualifications: Recommendation of summer school teacher or department chair

Length: 2 semesters

Credit: 1 credit

Description: The Fundamentals course addresses the needs of a small number of incoming freshmen who are not yet ready for Algebra I. The first semester is spent reviewing and strengthening the basic concepts of arithmetic, fractions, percents, data, and graphs. The second semester begins the study of Algebra I and covers the topics that are covered in the first semester of Algebra I. The class size is small to allow for greater individual interaction between student and teacher.

### Algebra I (215)

Length: 2 semesters

Credit: 1 credit

Description: Algebra I requires the students to apply their previously acquired knowledge of arithmetic in a general fashion through the use of variables. Problem solving skills are emphasized throughout the year. Some topics not traditionally found in algebra are also included. These include basic statistics and probability, linear regression, and data graphs. The graphing technology, including the calculator, is used throughout the course to reinforce and expand on the topics covered.

### Honors Algebra I (219)

Qualifications: Placement test

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: Honors Algebra I covers all the material that is done in Algebra I in greater depth. Critical thinking skills are exercised through challenging problem sets and innovative uses of technology. The main differences from Algebra I are the quicker pace and more demanding problem sets.

### Geometry (225)

Prerequisites: Algebra I (215 or 219) or by placement test

Length: 2 semesters

Credit: 1 credit

Description: Geometry emphasizes the pictorial aspect of mathematics. Drawing and visualization skills learned in Geometry will help in all future math courses. Geometry is the first complete mathematical system studied. The course emphasizes proof and practical applications. Algebra skills learned in Algebra I are revisited throughout the course in the solution of various geometric problems.

### Honors Geometry (229)

Prerequisites: Algebra I (215 or 219) or by placement test

Qualifications: Minimum 3.2 cumulative GPA and teacher recommendation

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: Honors Geometry covers all the material that is done in Geometry in greater depth. In particular, students will study proof and logic to a much deeper extent.

### Algebra II (235)

Prerequisites: Geometry (225 or 229) or by placement test

Length: 2 semesters

Credit: 1 credit

Description: Algebra II begins by reviewing and extending many of the concepts students learned in Algebra I. The course also introduces new topics which are critical to the mastery of basic pre-calculus as well as success at non-calculus college mathematics. The course emphasizes basic problem solving skills and uses the graphing calculator extensively.

### Honors Algebra II (239)

Prerequisites: Geometry (225 or 229) or by placement test

Qualifications: Minimum 3.2 cumulative GPA and teacher recommendation

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This course assumes basic mastery of Algebra I concepts and does not spend time reviewing. It covers all the topics covered in Algebra II but with greater emphasis on the underlying theory of the mathematics involved. This course includes more functional analysis and graphing than Algebra II.

#### Honors Algebra II /Trigonometry with Limits (248)

Prerequisites: Honors Geometry (229)

Qualifications: Minimum 3.2 cumulative GPA and teacher recommendation

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This course is designed to allow very talented students who did not have the opportunity to advance into high school math while in grade school the chance to take college level calculus as a senior. The best description of this course is that it does two years of honors mathematics, Honors Algebra II and Honors PreCalculus, in one year. The pace of the course is extremely quick. There is an expectation of independent study. The homework level in this course is about double that of the typical math course. Students enrolled in this course need not only tremendous ability but a true commitment to the study of mathematics.

#### Analysis (241)

Prerequisites: Algebra II (235 or 239)

Qualifications: Math teacher recommendation

Length: 2 semesters

Credit: 1 credit

Description: This Analysis course should prepare students for a quantitative reasoning course course they will be required to take post high school (specifically for a non STEM degree). Course content includes financial math (use of exponential and logarithmic functions exploring financial models, personal finance decisions, investments and loans) and statistics and probability (descriptive and inferential statistics used to investigate situations from business, engineering, medicine, politics, music, literature, and sports analytics).

#### PreCalculus (245)

Prerequisites: Algebra II (235 or 239) or by placement test

Length: 2 semesters

Credit: 1 credit

Description: PreCalculus is a fundamental precalculus course that also includes time spent on various non-calculus concepts. The purpose of the course is to expose students to a variety of topics that they may encounter in their college math courses. Since most students will be required to take some form of calculus in college, the main part of the course is basic precalculus. The course emphasizes problem solving over theory and uses the graphing calculator extensively.

#### Honors PreCalculus (249)

Prerequisites: Algebra II (235 or 239) or by placement test

Qualifications: Minimum 3.2 cumulative GPA and teacher recommendation

Length: 2 semesters

Credit: 1 credit

Description: Honors PreCalculus is a rigorous precalculus course. It covers all the topics that PreCalculus does and then some. The course also stresses theory and proof as well as problem solving techniques. Honors PreCalculus is designed for the very motivated and mathematically interested student.

#### Advanced Placement Calculus AB (250)

Prerequisites: Honors Precalculus (249) or Honors Algebra II/Trigonometry with Limits (248)

Qualifications: Minimum 3.2 cumulative GPA and teacher recommendation

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$94 testing fee

Description: AP Calculus AB is equivalent to one semester of college calculus. AP Calculus BC is equivalent to two semesters of college calculus. Calculus is a comprehensive study of limits, differentiation, and integration along with their application. Students will be prepared for and required to take the AP Calculus AB exam.

#### Advanced Placement Statistics (260)

Prerequisites: Pre-Calculus (245 or 249) or Honors Algebra II/ Trigonometry with Limits (248)

*NB: Pre-Calculus (245 or 249) can also be a corequisite.*

Qualifications: Minimum 3.2 cumulative GPA and teacher recommendation

Length: 2 semesters

Credits: 1 credit

Additional GPA Weighting: .5

Fees: \$94 testing fee

Description: AP Statistics is the equivalent of a non-calculus based, one semester, introductory, college course in statistics. The course explores gathering, organizing, analyzing, and interpreting of data. Heavy emphasis is placed on the use of the statistical calculator for performing calculations, so that more focus can be placed on the meaning of these numbers. Students will be prepared for and required to take the AP Statistics exam.

#### Advanced Placement Calculus BC (270)

Prerequisites: Honors Precalculus (249) or Honors Algebra II with Trigonometry and Limits (248)

Qualifications: Minimum 3.2 cumulative GPA and teacher recommendation

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$94 testing fee

Description: AP Calculus AB is equivalent to one semester of college calculus. AP Calculus BC is equivalent to two semesters of college calculus. Calculus is a comprehensive study of limits, differentiation, integration, and sequences and series along with their application. Students will be prepared for and required to take the AP Calculus BC exam.

#### Multivariable Calculus (275)

Prerequisites: AP Calculus BC (270)

Length: 2 semesters



Credit: 1 credit

Additional GPA Weighting: .5

Description: This course covers differential, integral, and vector calculus for functions of more than one variable. These mathematical tools and methods are used extensively in the physical sciences, engineering, economics, and computer graphics. This course is a College Credit Plus course.

#### Computer Science: Java I (281)

Prerequisites: Pre-Calculus (245 or 249); can be corequisite with approval from department chair

Length: 2 semesters

Credits: 1 credit

Description: Java I introduces object-oriented programming and design principles using the Java Programming Language with a concentration on problem solving and algorithm development. It also includes the study of data structures, design, and abstraction. It is designed to serve as a first course in computer science for students with no prior computing experience. This course uses Eclipse as the Integrated Development Environment, and endeavors to solidify students' knowledge of program structure; data types and objects; loops and conditions; arrays and array lists; class design and advanced functions of sorting, searching, recursion, and file i/o.

#### AP Computer Science: Java II (290)

Prerequisites: Java I (281) or summer prep course

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$94 testing fee

Description: AP Computer Science continues the topics of Java I by reviewing fundamental programming concepts and expands them to cover AP Computer Science topics such as Advanced Class Design. It teaches database design and programming using the SQL Language, with Microsoft SQL as the Primary Development Tool. It also introduces HTML and CSS principles, with system design and modeling principles. Students will be prepared for and required to take the AP Computer Science exam.

#### Computer Science: Java III (295)

Prerequisites: AP Computer Science (290)

Length: 2 semesters

Credit: 1 credit

*NB: Course requires project work that must be completed off-site and outside of regular school hours.*

Description: Students will design, develop, and deploy a real-world software application. During the process students will learn class and database design methodologies including the Unified Modeling Language (UML) and the Unified Process, software architecture principles, and use and practice agile modeling/scrum development principles. Students perform all aspects of software development from requirement gathering to design to development to testing to rollout.

## SCIENCE COURSES

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To meet graduation requirements, each student must earn three lab credits in science courses including one lab credit in biology, one lab credit in chemistry, and one lab credit in physics. The department offers regular and honors versions of these courses as well as advanced placement courses of each: AP Biology, AP Chemistry, and AP Physics. Additional electives are also available for juniors and seniors: Honors Anatomy and Physiology, Environmental Science, and Marine Science. The science curriculum offers comprehensive courses of study with Jesuit values to form each student into a scientifically inquisitive, lifelong learner dedicated not only to understand the world, but ethically committed to a just society. All courses are state-approved laboratory science courses and meet for 55 minutes each day.

9th Grade	10th Grade	11th Grade & 12th Grade
Biology ~or Honors Biology	Chemistry ~or Honors Chemistry	Physics ~or Honors Physics ~or AP Physics ~and any of the following electives: Honors Anatomy & Physiology AP Biology AP Chemistry Environmental Science Marine Science

### Biology (515)

Length: 2 semesters

Credit: 1 credit

Description: Biology is a course required of all freshman. The student will learn and discuss the key facts of modern biology as seen through seven major unifying themes; gain an appreciation of the variety of life forms on the earth and of our responsibilities toward them; become aware of the biological problems facing the world such as AIDS, global warming, and the loss of the ozone layer, and discuss their solutions; use laboratory experiences and computers to enrich textbook readings and classroom discussions, and demonstrate basic biological laboratory techniques.

### Honors Biology (519)

Qualifications: Entrance exam score of 90th percentile or higher, grade school grades of A- or better, and grade school teacher recommendations for advanced coursework.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This course is offered to a limited number of freshmen based on the recommendation of the department. It covers more material than standard Biology and includes additional laboratories. The student will learn and discuss key facts of modern biology as seen through seven major unifying themes; gain an appreciation of the variety of life forms on the earth and of our responsibilities toward them; become aware of the biological problems facing the world such as AIDS, global warming, and the loss of the ozone layer, and discuss their solutions; use laboratory experiences and computers to enrich textbook readings and classroom discussions, and demonstrate advanced biological laboratory techniques.

#### Chemistry (525)

Prerequisites: Biology (515 or 519)

Length: 2 semesters

Credit: 1 credit

Description: Chemistry is the study of the properties and transformations of matter. A college-preparatory course deals with chemical principles under two unifying themes: (1) atomic and molecular structure, and (2) chemical dynamics and equilibrium. The areas covered are: atomic theory, periodic law, gas laws, chemical bonding, acids and bases, states of matter, kinetics, oxidation-reduction, and equilibrium. Emphasis is placed on the scientific method of making observations, seeking relationships, and making predictions. Practical applications of chemistry and environmental problems will be covered.

#### Honors Chemistry (529)

Prerequisites: (Biology 515 or 519)

Qualifications: Grade of B or better in science and math, minimum 3.0 cumulative GPA, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .25

Description: This course is an advanced level of first year high school chemistry; thus, the course is geared toward those students who plan on taking chemistry in college. The lectures, laboratory exercises, and tests will be similar to what a student would see in a first year college chemistry course. There will be an emphasis on problem solving and critical thinking skills, as the student learns the basic concepts of chemistry. The course will move at a faster pace than Standard Chemistry, and will include more in-depth learning of a greater number of concepts. Laboratory exercises will focus on problem solving and will be detail oriented. In addition, outside projects and research will be assigned to individuals or to small groups. Topics covered during the course include stoichiometry, thermodynamics, atomic structure, solutions, gases, kinetics, and equilibrium.

#### Marine Science (532)

Prerequisites: Chemistry (525 or 529)

Length: 2 semesters

Credit: 1 credit

Description: This year-long course will provide students with a survey of various topics in Marine Science. The basics of oceanography that create a variety of conditions for marine organisms will be the main focus of the first semester including physical geography and geology of the ocean as well as the physical properties of fresh and saltwater bodies. The second semester will center on the marine

organisms and the adaptive pressures on organisms, including ecological influences on biological diversity through the use of discussion and independent study. Specifically, topics will include chemical properties of seawater, causes and effects of tides, animal and plant communities in oceans and lakes, and the flow of nutrients through bodies of water. The ocean's importance to mankind, through its impact on global climate and the use of fisheries will be stressed throughout the course and with possible field trips to marine laboratories throughout the state.

#### Environmental Science (534)

Prerequisites: Chemistry (525 or 529)

Length: 2 semesters

Credit: 1 credit

Description: The goal of this course is to provide students with the scientific, theological and literary background needed to understand how the Earth works, and its many interactions, and how we, as human beings, fit into that. At the end of the course, students will be able to identify and analyze environmental problems, critically assess cost/benefit on a moral basis of these problems and understand what it is to be a steward in the environment, studying how to live their lives in a more sustainable manner.

#### Advanced Placement Biology (520)

Prerequisites: Chemistry (525 or 529)

Qualifications: Grade of B or better in science, minimum 3.5 cumulative GPA, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$94 testing fee

Description: AP Biology is a course for the junior or senior who wishes to take a second course in biology, especially with the goal of receiving college credit. This course will cover the topics most often found in a college general biology course under the main headings of molecular and cellular biology, genetics and evolution, and organisms and populations. Through lectures, readings, and laboratory experiments these topics will be explored with the following goals in mind: to know the basic facts, principles, and processes of biology; to understand the means by which biological information is collected and interpreted, and how hypotheses are formulated; to understand the social consequences of advancements in biological science. Students will be prepared for and required to take the AP Biology exam.

#### Advanced Placement Chemistry (540)

Prerequisites: Honors Chemistry (529)

Qualifications: Grade of B or better in science, a minimum 3.5 cumulative GPA, and teacher recommendation.

Length: 2 semesters

Credit: 1 credit

Additional GPA Weighting: .5

Fees: \$94 testing fee

Description: This course is to be taken only after the successful completion of a first year high school honors chemistry course. Students should attain a depth of understanding of fundamental concepts as well as problem solving. This is done through extensive, higher level thinking approaches in classroom

discussion and laboratory activities. There is emphasis on development of the students' ability to think, both clearly and logically, in an oral and written manner. Students will be prepared for and required to take the AP Chemistry exam.

#### Physics (545)

Prerequisites for Juniors: Chemistry (525 or 529) and Geometry (225)

Prerequisites for Seniors: Chemistry (525 or 529)

Qualifications for Juniors: Grade of B or better in math

Length: 2 semesters

Credit: 1 credit

Description: Physics is the study of the behavior and interactions of energy and matter. The areas covered in this college preparatory course are: mechanics (the study of motion and its causes); waves, sound, and light; and electricity and magnetism. Emphasis is placed on understanding concepts, derivation of some of the mathematical expressions, and solution of concrete problems. This is accomplished through classroom and laboratory exercises.

#### Honors Physics (549)

Prerequisites: Chemistry (525 or 529)

Corequisites: Honors Algebra II (239) or higher

Qualifications: Grade of B or better in science and math, minimum 3.0 cumulative GPA, and teacher recommendation.

Credits: 1 credit

Description: This course is designed to cover the topics of Physics in greater depth as well as additional topics. Honors students will be expected to solve problems that require more synthesis and more abstract thinking. The areas covered in this college preparatory course are: mechanics (the study of motion and its causes); waves, sound, and light; and electricity and magnetism. This is accomplished through classroom and laboratory exercises. Additional topics include 2-D momentum and rotational dynamics. Emphasis is placed on understanding concepts, derivation of the mathematical expressions, and solution of concrete problems.

#### Advanced Placement Physics (550)

Prerequisites: Chemistry (525 or 529)

Corequisites: AP Calculus AB (250) or higher

Qualifications: Grade of B or better in science, a minimum 3.5 cumulative GPA, and teacher recommendation

Credits: 1 credit

Fees: \$188 exam fee

Description: AP Physics is a first-year course designed to prepare the student to take both parts of the Physics C exam. The first half of the year is devoted to Mechanics, and the second half to electricity and magnetism. Calculus is used in the presentation and in the solution of some problems. Students will be prepared for and required to take the AP Physics C Mechanics and E&M exams.

#### Honors Anatomy and Physiology (579)

Prerequisites: Chemistry (525 or 529).

Qualifications: Grade of B+ or better in science, minimum 3.5 cumulative GPA, and teacher recommendation

Credits: 1 credit

Description: The course is an elective laboratory science class in anatomy and physiology offered to juniors and seniors. The student interested in a future health science career (physician, medical research, physical therapy, sports training, nursing) would particularly benefit from the class. The course allows the student to complete the Pre-Med program along with their biology, chemistry, and physics classes. The coursework covers material not offered in either standard or honors biology. The study of human anatomy and physiology is covered using a systemic approach: the coursework details the elegant workings of the biomedical machine which is the human body. Particular emphasis will be placed on the medical aspects of diseases/pathologies in the human body. The laboratory side of the class will present dissections using a comparative animal anatomical approach, ranging across the invertebrate and vertebrate fauna from worms through mammals.

**THEOLOGY COURSES**  
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To meet graduation requirements, each student must earn four credits in theology courses. The United States Conference of Catholic Bishops has created and mandated that all Catholic high schools in the United States follow a curriculum framework titled Doctrinal Elements of a Curriculum Framework for the Development of Catechetical Materials for Young People of High School Age. This framework is designed to shape a four-year, eight-semester course of catechetical instruction. It is composed of six core semester-length subject themes with room for a school to choose two elective subject themes. St. Ignatius gives seniors the choice of three electives in the first semester (see below, Senior Theology) “The Catholic school affords a particularly favorable setting for catechesis with its daily opportunity for proclaiming and living the Gospel message; for learning and appreciating the teachings of our Church; for acquiring a deep understanding, reverence, and love of the Liturgy; for building community; for prayer; for proper formation of conscience; for the development of virtue; and for participating in Christian service” (National Directory for Catechesis, 9d, p. 233).

9th Grade	10th Grade	11th Grade	12th Grade
Scripture	Sophomore Service	Christian Morality	Sacred Scripture
~and	~and	~or	~or
Christology	Ecclesiology	AP Research: Morality	Christian Manhood
		~and	~and
		Sacraments	Paschal Mystery

Scripture: The Revelation of Jesus Christ (915A)

Credits: .5 credit

Description: The purpose of this course is to give students a general knowledge and appreciation of the Sacred Scriptures. Through their study of the Bible they will come to encounter the living Word of God, Jesus Christ. In the course they will learn about the Bible, authored by God through inspiration, and its value to people throughout the world. If they have not been taught this earlier, they will learn how to read the Bible and become familiar with the major sections of the Bible and the books included in each section. The students will pay particular attention to the Gospels, where they may grow to know and love Jesus Christ more personally. As members of a Jesuit high school, students will also be formed in Ignatian history, spirituality and practice.

Christology: Who is Jesus Christ? (915B)

Prerequisites: Scripture (915A)

Credits: .5 credit

Description: The purpose of this course is to introduce students to the mystery of Jesus Christ, the living Word of God, the Second Person of the Blessed Trinity. In this course students will understand that Jesus Christ is the ultimate Revelation to us from God. In learning about who He is, the students will also learn who He calls them to be.

Sophomore Service (921)

Prerequisites: Christology (915B)

Credits: .5 credit

Description: Students serve at a non-profit agency once a week in a three-hour block of time during the school day. Students also spend one class period a week in seminar, reflecting on the meaning of Christian service. Service placement is at the discretion of the school and requires the student to walk to or be driven to his particular service site. Every student, including students transferring into Saint Ignatius High School at any grade level, must take the Sophomore Service course as part of his Theology graduation requirement.

Ecclesiology: The Mission of Jesus Christ Continues in the Church (925)

Prerequisites: Christology (915B)

Credits: .5 credit

Description: The purpose of this course is to help students understand that in and through the Church they encounter the living Jesus Christ. They will be introduced to the fact that the Church was founded by Christ through the Apostles and is sustained by Him through the Holy Spirit. The students will come to know that the Church is the living Body of Christ. This Body has both divine and human elements. In this course, students will learn not so much about events in the life of the Church but about the sacred nature of the Church.

Christian Morality: Life in Jesus Christ (935A)

Prerequisites: Ecclesiology (925)

Credits: .5 credit

Description: The purpose of this course is to help students understand that it is only through Christ that they can fully live out God's plan for their lives. Students are to learn the moral concepts and precepts that govern the lives of Christ's disciples. In the course students will focus on beginning and end of life issues, the theology of the body, and other social issues.

Advanced Placement Research: Studies in Christian Morality (940)

Prerequisites: Ecclesiology (925) and [AP Seminar: Honors English II \(130\)](#)

Qualifications: minimum 3.3 cumulative GPA and teacher recommendation

Credits: 1 credit

Fees: \$142 exam fee

*NB: The credit earned from this course counts in place of Christian Morality (935A) and Public Speaking (735).*

Description: AP Research is the second course in the AP Capstone program. While working with an expert advisor, explore an academic topic, problem, or issue that interests you and design, plan, and conduct a year-long research-based investigation to address it. The course culminates in an academic paper of 4,000-5,000 words and a presentation, with an oral defense; during which you will answer 3-4 questions from a panel of evaluators. If you earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of your choosing, you will receive the AP Capstone



Diploma. This signifies outstanding academic achievement and attainment of college-level academic and research skills. Alternatively, if you earn scores of 3 or higher in AP Seminar and AP Research only, you will receive the AP Seminar and Research Certificate.

Sacraments: Privileged Encounters with Jesus Christ (935B)

Prerequisites: Christian Morality (935A) or Advanced Placement Research (940)

Credits: .5 credit

Description: The purpose of this course is to help students understand that they can encounter Christ in a full and real way through the sacraments and, especially, through the Eucharist. Students will examine each of the sacraments in detail so as to learn how they may encounter Christ.

Christian Manhood: Responding to the Call of Jesus Christ (952)

Prerequisites: Sacraments (935B)

Credits: .5 credit

Description: The purpose of this course is to help students understand the vocations of life: how Christ calls us to live. In this course students will learn how all vocations are both similar and different. The course is structured around married life, single life, priestly life, and consecrated life. Students will learn about what it means to live life for others and to consider a vocation in service to the Christian community.

Sacred Scripture (954)

Prerequisites: Sacraments (935B)

Credits: .5 credit

Description: The purpose of this course is to give an overview of Sacred Scripture with an introduction to the basic principles for understanding and interpreting the Bible. Every effort is made to discover the divine plan of salvation, the presence of God's action in this record of His Revelation, and His desire to share His merciful love with us.

Other Worlds - Study of Social Justice in Ireland (975)

Qualifications: Open to students registered for the Irish Studies Summer Study Abroad Program.

Credits: .5 credit

Fees: travel expenses are not covered by tuition

*NB: This course features a dual enrollment with [Other Worlds - Study of Literature and Culture of Ireland \(175\)](#). The credit earned from this course takes the place of a first semester theology course. Students may still take a first semester theology course but are not required to do so.*

Description: Since 2008, Saint Ignatius and Walsh Jesuit have partnered to deliver a unique service-learning program in Belfast, Northern Ireland. The program consists of a rigorous academic curriculum of two team taught courses delivered by Saint Ignatius and Walsh Jesuit faculty coupled with lectures by Queen's University (Belfast) professors. Students complete daily reflections coupled with a meaningful cross-community service project. The program structure utilizes the Ignatian pedagogical method of context, experience, reflection, action, and evaluation. The Summer Program cultivates the understanding, knowledge, skills and attitude change that will enable participants to partake in conflict transformation and social justice initiatives at a local, national, and international level.

The Paschal Mystery of Jesus (945)

Prerequisites: Christian Manhood (952) or Sacred Scripture (954).

Credits: .5 credit

Description: The purpose of this course is to help students understand all that God has done for us through His Son, Jesus Christ. Students will learn that, for all eternity, God has planned for us to share eternal happiness with Him. Students will learn that they share in this redemption only in and through Jesus Christ. They will also be introduced to what it means to be a disciple of Christ and what life as a disciple entails.

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