



**Ursuline Academy of Dallas
Course Compendium
2017-2018**

The course descriptions in this booklet are intended to provide you with pertinent information concerning content, length, prerequisite(s), and credit value for each course.

Ursuline Academy of Dallas reserves the right to withdraw a course offering due to insufficient enrollment or unexpected staff changes.

Founded in 1874, Ursuline Academy of Dallas is an independent Catholic college preparatory school for young women sponsored by the Ursuline Sisters. The mission of Ursuline Academy is the total development of the individual student through spiritual formation, intellectual growth, service to others, and building of community. Ursuline Academy educates young women for leadership in a global society.

This compendium provides curriculum information for the 2017-2018 school year. It is designed to assist students, parents, counselors, the Dean of Academics, and the Registrar in selecting courses best suited to meet the needs of each student.

Students will consult with their counselors concerning curriculum choices and requirements. All students must be enrolled in a minimum of seven (7) credits during the official school day in each semester.

Student registration is a critical function at Ursuline Academy of Dallas. Based upon the registration data, courses are scheduled and teachers are employed for the next year. **Course selections made at the time of registration are considered permanent for the academic year. After September 8, 2017, all schedule changes are subject to a \$100 fee (through the Finance Office) for each change. All requested changes must be submitted via email to the Registrar at fgarrett@ursulinedallas.org.**

On occasion, due to unusual conditions, changing a student's schedule is **justifiable** (see below).

A change is considered justifiable if:

1. An instructor and/or a Personal Counselor have determined that a student was scheduled for a course in which she has inadequate background.
2. The student was scheduled for a course for which she has not completed the required prerequisites.
3. The student was recommended for a specific course but was not scheduled into that course.
4. The student was scheduled for a course for which she has already received credit.
5. The student has special circumstances and the change is approved by the Dean of Academics.

Graduation Requirements

To earn a diploma from Ursuline Academy, a student must meet the following requirements:

- Obtain the last seven credits from Ursuline Academy while enrolled as a full-time student
- Earn passing grades in all courses or remediate failures
- Fulfill all community service requirements
- Be enrolled in a minimum of seven courses in a given semester
- Complete the **required 28 credits** listed below:

4 credits	Theology
4 credits	English
4 credits	Math
4 credits	Social Studies (<i>Requirement is 4 credits to include Historical Geography, World History, United States History, Macroeconomics, and Government</i>)
4 credits	Science (<i>Requirement is 4 credits to include Physics I, Chemistry I, Biology I, and one additional Science course.</i>)
3 credits	World Language (<i>Same language in consecutive years-beginning with Freshman year.</i>)
1 ½ credits	Electives
1 credit	Physical Education
1 credit	Fine Arts
1 credit	Computer Science
½ credit	Speech
28 credits	Total

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Computer Science

Computer Science offers introductory courses in programming. The courses involve the development of computer programs to solve problems. Students will learn to organize ideas, develop algorithms, and gain experience with problem-solving techniques. Individual creativity is encouraged as students create workable solutions for projects.

3631 Introduction to Computer Science: (Sophomore-Senior) This core semester course provides students with an introduction to computer architecture, networking and problem solving through programming. Using a high level programming language, students learn how to read, modify, design, debug, and test algorithms that solve problems. Programming concepts include control structures, abstraction, modularity, and object-oriented design. Emphasis is placed on critical thinking skills to solve real-world problems. Relevance of computing to the student and society will be emphasized.

Prerequisite: None

1 semester

½ credit

3632 Digital Graphics and Animation Design and Development: (Sophomore-Senior) This semester course will foster students' creativity and innovation by presenting opportunities to design, implement, and present stories and animations using software and a modern programming language. Students will learn how to debug and solve problems to achieve their intended programming goal. Object oriented environments will introduce the student to computer science concepts such as sequence-programming, loops, selection structures, and variables.

Prerequisite: Introduction to Computer Science

1 semester

½ credit

3633 Webpage Design and Development: (Sophomore-Senior) This semester course provides an accelerated introduction to creating and styling web pages using the latest web development standards. Students are given hands-on experience in designing and creating web pages using various layouts and coding techniques, and learn about the best practices of web design. In this course, students will also use industry-standard web development frameworks and scripting languages to create interactive web pages. While learning to program, students will gain experience with problem-solving techniques.

Prerequisite: Introduction to Computer Science

1 semester

½ credit

3636 Mobile Application Design and Development: (Sophomore-Senior) This semester course teaches how to create applications for mobile devices as a vehicle for learning big ideas of computer science and engineering, and to explore technology's impact on society. Applications include games, quizzes, electronic voting, location-aware apps, social networking, and apps that communicate with web services. This course does not require a student have a cell phone.

Prerequisite: Introduction to Computer Science

1 semester

½ credit

3639 Introduction to Java Programming: (Sophomore-Senior) This semester-long course introduces fundamental object-oriented concepts using the Java programming language. Students will learn concepts such as classes, objects, data types, method design and control flow. Best programming practices are emphasized as students design, code and problem solve to build quality software that addresses real-world problems including applications such as maintaining music playlists or processing ATM banking transactions.

Prerequisite: Introduction to Computer Science

1 semester

½ credit

3637 Engineering Design Innovation: (Sophomore-Senior) Students learn how engineers create, design, and test the technologies and devices of the 21st century using math, science, computer science and creative skills. In particular, students learn multiple problem-solving strategies including Design Thinking, the 6 D's, and the Engineering Design Process. They use these ways of thinking to solve real-world problems, build prototypes, and test their solutions. Students learn from both regular classroom lectures and from hands-on design projects. Students spend 80% of instructional time conducting engineering field and laboratory activities. The activities include mechanical engineering (robotics and ballistic devices), civil engineering (drafting, architecture and construction), systems and logistics, computer engineering (digital logic design, mobile app design, coding, and 3D printed structures) and biomedical engineering (prosthetic design).

Prerequisite: Physics 1

Corequisite: Algebra II, Chemistry

2 semesters – 1 credit Senior Science elective or

2 semesters – 1 credit Computer Science

3628 AP Computer Science A: (Sophomore-Senior) This year-long course is compatible with the curriculum specified by College Board. Object-oriented programming is emphasized. Students design and implement computer-based solutions to problems in a variety of application areas. Examples of problems solved in recent years include: having a robot jump hurdles of different heights, alphabetizing words, determining if a word is a palindrome, searching for a particular name in a group of names, and programming an interactive card game. Standard algorithms and fundamental data structures are introduced and used.

Prerequisite: Departmental Approval

Co-requisite: Geometry Honors or completion of Algebra II

2 semesters

1 credit

English

The English Department of Ursuline Academy strives to develop students who can enter college with the ability to read, think, and write, both analytically and creatively, and we hope to inspire a lifelong love of reading. In addition, the English program hopes to enable students to become more thoughtful about themselves and their relationship to their place in both the local and global community.

5131 English I: (Freshman) This course is designed to help students learn the fundamentals of effective writing, emphasizing reading and discussion as a way to develop not only content for writing but also personal voice. Thematically the course will consider the hero's journey as a metaphor for self-discovery. Students will practice paragraph writing by developing a main idea, using supporting examples accompanied by critical commentary. This process will lead to the development of full-length essays through process writing and timed writing. In addition, this course is designed to introduce the students to the UA library resources, both print and online, by having students produce an annotated bibliography that follows MLA formatting. Ongoing study of grammar and vocabulary accompanies each reading assignment, emphasizing learning words in context and by association. In the second semester, all English I students will be given a grammar and usage test (standardized by the department) in order to evaluate their mastery of basic skills.

Prerequisite: None

2 semesters

1 credit

5111 English I Honors: (Freshman) This course is designed to help students master the fundamental principles of sophisticated writing and sound literary analysis. Students will read, discuss, and analyze epic and lyric poetry, drama, and fiction, becoming acquainted in the process with the terminology and techniques of literary interpretation. Thematically the course will consider the hero's journey as a metaphor for self-discovery. Students will write in a variety of modes, exploring voice and crafting personal, persuasive, and expository essays. In addition, this course is designed to introduce the students to the UA library resources, both print and online. Ongoing instruction will be provided in both grammar and vocabulary. In the second semester, all English I Honors students will be given a grammar and usage test (standardized by the department) in order to evaluate their mastery of basic skills.

Prerequisite: Departmental Approval

2 semesters

1 credit

5232 English II: (Sophomore) This course, *The Female Voice*, will explore common themes concerning women apparent through female authors and protagonists represented by a wide range of diverse cultural backgrounds which may include Asian, African, European, and Latina to offer students many perspectives on the female voice. The course narrows the freshman year's journey theme into that of women's journey towards identity. To develop analytical skills sophomores incorporate literary analysis and literary terminology into multi-paragraph essays examining themes related to women. By applying the skills learned through analysis and the study of grammar usage, the students scrutinize their essays for content and style through the writing and revisions process. Furthermore, the students write a documented essay dealing with women's experiences to incorporate their developing research skills into an essay.

Prerequisite: English I

2 semesters

1 credit

5212 English II Honors: (Sophomore) This course, *The Female Voice*, will explore common themes concerning women apparent through female authors and protagonists represented by a wide range of diverse cultural backgrounds which may include Asian, African, European, and Latina to offer students many perspectives on the female voice. The course narrows the freshman year's journey theme into that of women's journey towards identity, exploring more difficult works than English II. Students for this course have demonstrated confidence in analysis, writing and reading skills. Working at an accelerated pace, honors students will be expected to craft multi-paragraph literary analyses each quarter. Using writing as a process through which students can articulate their ideas more clearly, they will also gain experience in revising and editing their own work as well as the work of others. These students will be encouraged to read beyond the curriculum, as well as to complete a documented essay dealing with women's experiences as reflected in the course.

Prerequisites: English I Honors or English I and Departmental Approval

2 semesters

1 credit

5331 English III: Literature of the United States: Imagined Communities: (Junior) This course will explore how the complex category “American” has been both imagined and challenged in a range of literary texts from different genres. We will explore such themes as identity, individualism, the American dream, and tensions between inclusion and exclusion. Students will explore diverse literary works to expose them to the multi-cultural literary world of the U.S. They will be expected to write documented literary essays that explore these themes within primary literary works. They will also hone their writing skills in a variety of areas: literary analysis, the argumentative essay, and the personal essay. Greater emphasis on complex, thesis-driven essays, as well as on long-term reading assignments, will further prepare them for college level work. Class discussions, various forms of writing, and creative projects will provide students an opportunity to think and respond critically and analytically.

Prerequisite: English II

2 semesters

1 credit

5335 English III: American Classics: (Junior) For almost as long as writing has been published in the United States, readers have asked what constitutes an American classic and debated what belongs in the American literary “canon.” The complex nature of America itself makes these questions all the more difficult, and one can only begin to decide what an American classic is by thinking about the nature of American identity and the nature—and function—of American literature. This course will take up these kinds of questions as students actively engage in a broad survey of American literature, tracing some of the universal themes and probing the definitions of classic literature. Students will be expected to write a documented literary essay and will also hone their writing skills in a variety of areas: literary analysis, the argumentative essay, and the personal essay. Greater emphasis on complex, thesis-driven essays, as well as on long-term reading assignments, will further prepare them for college level work. Class discussions, various forms of writing, and creative projects will provide students an opportunity to think and respond critically and analytically.

Prerequisite: English II

2 semesters

1 credit

5337 English III: American Modernism: (Junior) This course explores the Modernist period in America, considering a variety of texts and genres within the encompassing, universal themes of the “Lost Generation.” The sub-themes examined in this literature will include: believing that humanity creates the world in the act of perceiving it; the historical discontinuity in society; the rejection not only of history, but also of the society of whose fabrication history is a record; and the sense of alienation, loss, and despair. All aspects of humanity may seem separate from our experience, yet once expressed and analyzed, display an incredible conglomerate of what humanity is and how it acts. Writing skills will be an essential learning process, as the student will focus on the critical analysis of these texts and respond in thesis-driven, argumentative essays and personal explications, thus preparing the student for college-level English and thinking skills.

Prerequisite: English

2 semesters

1 credit

5313 English III Honors: (Junior) The course, Literature of the United States Honors, will explore the diverse voices in literature from the United States in an effort to determine what defines the American experience from a variety of viewpoints. We will examine such themes as the immigrant experience, slavery and its impact on literature, freedom, independence, and the American Dream. Each student will hone her writing skills in a variety of areas, and will focus on analytical and critical thinking and writing. Students are expected to discuss these works, write, and analyze to the high standard of an honors class.

Prerequisites: English II Honors or English II and Departmental Approval

2 semesters

1 credit

5302 AP English Language & Composition: (Junior-Senior) This is a college-level course, which combines extensive instruction and practice of writing with the study of American fiction and non-fiction to prepare for an Advanced Placement Examination in Language and Composition. The readings serve as a springboard to discussion and analysis of American thought and voice, as well as provide illustrative models for the student's ongoing understanding of language and its use. Students will write in a variety of modes (including expository, analytical, argumentative, and personal) for a variety of purposes and audiences. Students will develop an understanding of writing and language while striving to develop a lucid, individualized writing style. The course prepares students for the AP Language & Composition College Board exam.

Prerequisites: English II Honors or English II and Departmental Approval
2 semesters *1 credit*

5428 English IV: Imagining the Impossible: Utopia, Dystopia, and the End of the World: (Senior) This course will use Sir Thomas Moore's concept of "Utopia"— a term we understand to be a "perfect place," but literally translates to "no place"— in order to explore the different ways we as a global community imagine a better place. In imagining utopia, authors continually strive to make the world better, offering, at times, criticism of the problems seen in contemporary culture that prohibits making our world a better place. Thus, we will also explore texts that offer dystopic, even sometimes apocalyptic, visions of the world. Our literature will explore concepts like society, humanity, religion, class, creativity, environmentalism, toxic culture, race, and history. The literature taught in this course will include several regions of the world such as England, Canada, North America, and South America, which will allow us to consider how the global community collectively strives to imagine a better place. The writing in this course will focus on close reading, analytical thinking, and analytical writing.

Prerequisite: English III
2 semesters *1 credit*

5429 English IV: World Modernism: (Senior) This course explores the Modern period of the twentieth century paired with multicultural, modern, and contemporary texts within the encompassing, universal theme of the examination of the inner-self. The main sub-themes examined in this literature will include the importance of self-reflection, attention to the present, break from tradition and the past, loss and despair, and existentialism; this generation creates the world while perceiving it in the present. Writing skills will be an essential learning process, as students will focus on the critical analysis of these texts and respond in thesis-driven, argumentative essays and personal explications, thus preparing the student for college-level English and analytical skills.

Prerequisite: English III
2 semesters *1 credit*

5430 English IV: Shakespeare as Lit and Drama: (Senior) We have all heard of William Shakespeare, but why and how is he still relevant in our contemporary global society? What is the impact of his life and works? This interdisciplinary course seeks to answer those questions by exploring key play texts as academics as well as actors. Critical analysis, both written and through class discussion, historical context, and acting techniques will be combined to give a comprehensive experience of the Bard. No prior acting experience is necessary for success in this course. Students will engage in various forms of critical, analytical, and creative writing to refine their writing skills.

Prerequisite: English III
2 semesters *1 credit in English or 1 credit in Fine Arts*

5411 World Literature Honors: (Senior) This course explores the central question: "What does World Literature teach us about the human experience?" The course will be comparative by nature, using a yearly or bi-yearly theme to tease out experiences shared by a wide variety of cultures. The current theme, "Myths and Their Re-Telling," explores Carl Jung's assertion that Myths are expressions of the "collective unconscious" and continually revolve around themes and experiences shared by all humans. We will look at the Myths in their original context and consider the way(s) they influence Modern conceptions of the world, hoping to illuminate the way stories attempt to explain the world and our place in it. Students will be required to read complex works of literature and will need strong reading skills fitting of an Honors student. In addition, students will complete a variety of assignments—creative, written, verbal—that will require students to articulate their relationship to the literature and world around them.

Prerequisites: AP Language and Composition or English III Honors or English III and Departmental Approval
2 semesters *1 credit*

5403 AP English Literature and Composition: (Senior) Building on the foundation of AP Language and Composition, this college-level course will provide students the opportunity to develop interpretive skills in the rich and rewarding study of world literature. Writing assignments, both formal and in-class essays, will encourage the close reading of texts, examining structural devices and thematic language in order to arrive at literary meaning that brings insight into human experience. Through lecture, seminar, and collaborative activities, students will prepare for the College Board Advanced Placement exam in Literature and Composition.

Prerequisites: AP Language and Composition or English III Honors and Departmental Approval
2 semesters *1 credit*

Electives

5654 Creative Writing: (Sophomore-Senior) This elective course provides a forum for students seeking an opportunity for written self-expression and an opportunity to develop skills to enhance the power and clarity of that expression. The course will focus on two specific areas of creative writing: poetry and short fiction. Much of the class will employ a workshop format in which activities include modeling, class discussion, and peer review. Essential to the success of the class is the willingness of students to submit their work to the critical response of their peers, as well as their ability to evaluate candidly the work of those same peers.

Prerequisite: None
1 semester *½ credit*

5660 Introduction to Philosophy: (Junior-Senior) This elective course introduces students to philosophic questions and to how philosophers have approached and attempted to answer them. Students also grapple with the great questions of philosophy themselves, both individually and as part of a group. In other words, students both study philosophy and do philosophy. The course focuses on Western philosophy, but students receive assignments which allow them to explore philosophers and thought from any tradition. The course draws from multiple disciplines for material, perspectives, questions, and speakers.

Prerequisite: None.
1 semester *½ credit*

5661 A Portrait of the Medieval World: (Junior-Senior) Was the Middle Ages a time when darkness descended over Europe and the continent fell into a forgetful and fitful sleep? Or was it a period filled with knights and chivalry, lords and ladies, castles and cathedrals? Or somewhere in between? "A Portrait of the Medieval World" will provide a glimpse into this time period and students will draw their own conclusions. In the course, we will delve into the literature and history of the Middle Ages looking broadly at the medieval woman, monarchies, the impact of the Black Plague, the evolution of the English language, creation of medieval manuscripts and the role of art and architecture. There will be guest lecturers on theology, science, and theatre as we explore, with breadth and depth, the major works of literature of the medieval world and their historical contexts.

Prerequisite: World History
1 semester *½ credit*

5662 The Age of Enlightenment: (Junior-Senior) How do you know if something is true? What shapes our understanding of the world around us - religion, reason, science, emotion? The quest to define "truth" served as the foundational debate of the Long Eighteenth Century, often known as the Age of Enlightenment. We will

explore the nature of truth through philosophy, history, literature, art, and architecture. Engage with Enlightenment thinking as you debate your ideas in a Salon, write your own version of Swift's "A Modest Proposal," design your own government, and create a fictional history for the figures in a painting or imagine the lives of people who inhabited a building.

Prerequisite: World History

1 semester

½ credit

5711 Journalism: (Freshman-Junior) This elective course is designed to increase students' understanding of the communication process within the context of journalistic writing and page design. Students will develop research and documentation skills while applying their ability to conduct interviews to obtain information and to verify facts. They will also learn to discern credible sources and to recognize the positive and negative effects of digital media and interactive journalism. In addition to writing skills, students will develop page layouts incorporating design elements in page production using computer software packages including InDesign, Photoshop 7.0, Illustrator 7.0, and Adobe CS, Version 6. Journalism also focuses on the impact of the Internet on the news, studying and contributing to newspapers online and investigating other forms of modern media from podcasts to blogs.

Prerequisite: None

2 semesters

1 credit

5721 Newspaper Journalism: (Sophomore-Senior) This elective course is a laboratory class for journalism students to design and produce a publication that serves the school community. Students will build interview skills to gather information and use direct quotes from participants to report the news. Using Adobe InDesign publishing software, students will apply their design skills to the page production process. In addition to the computer and writing skills used, students will study and practice components of photojournalism, business management, and advertising to complete the project. The class is also responsible for the school's online newspaper and its constant updating with stories, pictures, and videos. This course may be repeated for credit.

Prerequisite: Journalism I or Instructor Approval

2 semesters

1 credit

5731 Yearbook Journalism: (Sophomore-Senior) Throughout this elective laboratory course, students will apply the basic skills of design and copy writing learned in Journalism I as they pertain to this type of publication. The magazine format and graphic design require good photograph editing and cropping skills to create designs that are visually appealing and effective. This class may be repeated for credit.

Prerequisites: Journalism I and Instructor Approval

2 semesters

1 credit

Mathematics

All courses offered by the Ursuline Academy of Dallas Mathematics Department are aligned with the National Council of Teachers of Mathematics Standard to encompass the conceptual underpinnings of Calculus, mathematics as problem solving, reasoning and communication, and mathematical connections with integration of technology.

Note: Any student interested in double tracking should contact the Math Department Chair for the approval process.

3132 Algebra I/Geometry Year 1: (Freshman) This two-year course integrates content typically covered in a traditional Algebra 1 and Geometry sequence. The integration of the two branches of mathematics allows students to see the connections between the two disciplines and reinforce understandings. Topics include linear and quadratic functions, Euclidean geometry, algebraic manipulation and problem solving, and right-triangle trigonometry. Emphasis is placed on communication, justification, and real-world applications. Technology is incorporated into the learning activities when applicable and used to enforce conceptual understanding.

Prerequisite: None

2 semesters

1 credit

3136 Algebra I/Geometry Honors Year 1: (Freshman) This two-year course integrates content typically covered in a traditional Algebra 1 Honors and Geometry Honors sequence. The integration of the two branches of mathematics allows students to see the connections between the two disciplines and reinforce understandings. Students conduct an in-depth analysis of functions, algebraic manipulation and problem solving, and right-triangle trigonometry. Emphasis is placed on communication, justification, and real-world applications. Technology is incorporated into the learning activities when applicable and used to enforce conceptual understanding. Students should be capable of making mathematical inferences and understanding technical mathematical language. There is an emphasis on independent work.

Prerequisite: Departmental Approval

2 semesters

1 credit

3134 Algebra I/Geometry Year 2: (Sophomore) This course is a continuation of a two-year course that integrates content typically covered in a traditional Algebra 1 and Geometry sequence. The integration of the two branches of mathematics allows students to see the connections between the two disciplines and reinforce understandings. Topics include linear and quadratic functions, Euclidean geometry, algebraic manipulation and problem solving, volume and surface area analysis, and right-triangle trigonometry. Emphasis is placed on communication, justification, and real-world applications. Technology is incorporated into the learning activities when applicable and used to enforce conceptual understanding.

Prerequisite: Algebra I/Geometry Year 1

2 semesters

1 credit

3138 Algebra I/Geometry Honors Year 2: (Sophomore) This course is a continuation of a two-year course that integrates content typically covered in a traditional Algebra 1 Honors and Geometry Honors sequence. The integration of the two branches of mathematics allows students to see the connections between the two disciplines and reinforce understandings. Students conduct an in-depth analysis of functions, Euclidean geometry algebraic manipulation and problem solving, volume and surface area analysis, and right-triangle trigonometry. Emphasis is placed on communication, justification, and real-world applications. Technology is incorporated into the learning activities when applicable and used to enforce conceptual understanding. Students should be capable of making mathematical inferences and understanding technical mathematical language. Students are expected to critically think and apply concepts into real world scenarios. There is an emphasis on independent work.

Prerequisite: Algebra I/Geometry Honors Year 1 or Algebra I/Geometry Year 1 and Departmental Approval

2 semesters

1 credit

3212 Geometry Honors: (Freshman-Sophomore) This course covers a more in-depth examination of the content covered in a regular Geometry course. Students analyze plane, solid, and coordinate geometry as they relate to both abstract mathematical concepts as well as real-world problem situations. Topics include logic and proof,

parallel lines and polygons, perimeter and area analysis, volume and surface area analysis, similarity and congruence, trigonometry, and analytic geometry. Weight is placed on developing critical thinking skills as they relate to logical reasoning and argument. Students should be capable of making mathematical inferences and understanding the technical language of mathematics. There is emphasis on independent work.

Prerequisite: Departmental Approval

2 semesters

1 credit

3333 Algebra II: (Sophomore-Junior) This course continues development of the student's ability to recognize, represent and solve problems involving functions and equations, emphasizing relationships between algebra and geometry. With modeling and use of technology playing key roles, students explore functions (including linear, quadratic, exponential, rational, and logarithmic), data analysis, systems of equations and inequalities, introduction to probability and statistics, and sequences and series. Integral to the program is an emphasis on mathematical processes that underlie the content: computation in problem-solving contexts, language and communications, connections within and outside mathematics, reasoning, justification and proof, and applications and modeling.

Prerequisite: Algebra I/Geometry Year 2 or Geometry

2 semesters

1 credit

3335 Algebra II/Pre-Calculus Honors: (Sophomore-Junior) This course combines algebraic and trigonometric concepts into a preparatory course for calculus. Arithmetic and geometric sequences and series and the binomial theorem are developed and applied. Matrices and linear programming are used to model and analyze real-world scenarios. Complex numbers are introduced. Exponential, logarithmic, linear, polynomial, and rational function transformations are analyzed with emphasis on graphing and interpreting intercepts, minimum and maximum values, end behaviors, and domain and range. Trigonometry, trigonometric functions and their inverses are evaluated for domain and range and applied to the unit circle and sinusoidal curve fitting. Trigonometric identities and equations are studied for their application in sum and difference formulas, double and half angle formulas. Students are expected to strengthen symbolic and verbal fluency and to study both independently and collaboratively.

Prerequisite: Algebra I/Geometry Honors Year 2, Geometry Honors or Departmental Approval

2 semesters

1 credit

3430 Integrated Mathematics: (Senior) This course spirals the topics from Algebra I & II and Geometry into a deeper understanding of real world mathematics by developing problem solving strategies. Students will find and apply appropriate techniques to solve, interpret and represent practical information such as personal finance, statistics, project management, and other concepts needed for pursuing non-mathematical majors in college. Students will analyze concepts in various forms, interpret and use mathematical models, and construct mathematical arguments to solve familiar and unfamiliar problems.

Prerequisite: Algebra II and Departmental Approval

2 semesters

1 credit

3432 Statistics: (Senior) This introductory course emphasizing work with data and statistical ideas. The areas covered include data analysis with graphical and numerical examination of distributions and relationships, producing data using random sampling and randomized comparative experiments, and sampling distributions and probability. There is also a study of statistical inference starting with an introduction to confidence levels, significance tests, and errors, extending into inference for distribution and proportions. Importance is placed on active learning in the development of statistical thinking and understanding of data concepts. Technology is integrated throughout the course, with instruction using the statistics feature of the graphing calculator.

Prerequisite: Algebra II

2 semesters

1 credit

3614 PreCalculus: (Junior - Senior) This course examines the concepts of elementary functions with an emphasis on data analysis and the study of algebraic, exponential, logarithmic, trigonometric, parametric, and polar functions. Laws associated with each class of functions are explored, as well as applications of these laws. Topics also include vectors and complex numbers. The concepts necessary for preparing for calculus are examined in-

depth, including the notion of limits. Importance is placed on graphing techniques as a precursor to Calculus. Integral to the course is the problem-solving approach to real-world situations, with appropriate use of technology.

Prerequisite: Algebra II

2 semesters

1 credit

3399 Calculus A Honors: (Junior-Senior) This course incorporates pre-calculus concepts with a calculus approach to lay the foundation for success in AP Calculus BC. It includes an analysis and exploration of limits and differentiation. Rate of change as a derivative is explored within related rates applications. Functions are modeled graphically, numerically, analytically and verbally. The connections between these different types of representations are emphasized. Solutions are analyzed for reasonableness, including relative accuracy and units of measurement. Students are expected to communicate mathematics both orally and in well-written sentences to explain problem solutions.

Prerequisite: Algebra II/PreCalculus Honors or Departmental Approval

2 semesters

1 credit

3400 Calculus Applications: (Senior) Students will extend their experience with functions as they study the fundamental concepts of calculus: the limit definition of the derivative, the meaning of the first and second derivatives, applications of differential calculus, antiderivatives and indefinite integrals, the Fundamental Theorem of Calculus, and applications of integral calculus. Students review and extend their knowledge of trigonometry and basic analytical geometry. Important objectives of the calculus sequence are to develop and strengthen the students' problem-solving skills and to teach them to read, write, speak, and think in the language of mathematics. In particular, students learn how to apply the tools of calculus to a variety of problem situations.

Prerequisite: Algebra II/Trigonometry Honors, Pre-Calculus, or PreCalculus Honors

2 semesters

1 credit

3403 AP Calculus AB: (Senior) This course is concerned with a multi-representational approach to the concepts of elementary calculus. Functional behavior is examined in a local and global perspective. The derivative is explored in terms of rate of change and local linear approximations. In the area of integral calculus, the topics explored include antiderivatives, techniques of integration, the definite integral and applications. The relationship between the derivative and the definite integral is explored through the fundamental Theorem of Calculus. The definite integral is explored both as a Riemann sum and as a net accumulation of a rate of change. Each of these topics is examined from a numeric, algebraic, graphic, and verbal perspective. The connections among these representations are also emphasized. The course prepares students for the AP Calculus AB College Board exam.

Prerequisite: PreCalculus Honors or PreCalculus and Departmental Approval

2 semesters

1 credit

3402 AP Calculus BC: (Senior) This course is concerned with a multi-representational approach to the concepts of elementary calculus. Functional behavior is examined in a local and global perspective. The derivative is explored in terms of rate of change and local linear approximations. In the area of integral calculus, the topics explored include antiderivative, techniques of integration, the definite integral and applications. The relationship between the derivative and the definite integral is explored through the fundamental Theorem of Calculus. The definite integral is explored both as a Riemann sum and as a net accumulation of a rate of change. Sequence and series topic deals with tests for convergence and power series. Additional topics include the study of vectors and parametric and polar functions in context of differentiation and integration. Each of these topics is examined from a numerical, algebraic, graphical and verbal perspective. The connections among these representations are also emphasized. The course prepares students for the AP Calculus BC College Board exam.

Prerequisite: PreCalculus Honors

2 semesters

1 credit

3404 AP Statistics: (Junior-Senior) This elective course is an in-depth study of the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students examine broad conceptual themes: exploratory analysis of data, with use of graphical and numerical techniques to study patterns and departures from patterns; planning a study with emphasis on data collection, modeling, and validity of conjectures obtained; probability, the tool used for describing distributions of data in modeling; statistical inferences starting with confidence levels, significance tests and errors, and then investigating inference for distributions and proportions, followed by more advanced topics in inference. Technology is integrated throughout the course with instructions utilizing the

statistics features of the graphing calculator as well as statistical software. Independent projects will be required. Strong verbal ability is recommended. The course prepares students for the AP Statistics College Board exam.
Prerequisite: concurrently with Algebra II/PreCalculus Honors or higher level course
2 semesters *1 credit*

Performing Arts

No civilization has existed without some form of artistic expression; it is one of the most glorious manifestations of our nation, our world, and our cultural heritage. It is our belief that the performing arts of music, dance, theater, and speech constitute a fundamental component of basic education, whose primary purpose is to foster cultural literacy, and provide opportunity to develop the social, intellectual, physical, emotional, and spiritual potential necessary to improve society and the quality of life. Many classes in the Performing Arts Department may be repeated for credit. This allows the student to delve deeper into a subject and more fully develop skills in a particular area of interest. Participation in the performing arts should be a positive, integrative experience, which allows students the opportunity to take risks and realize both successes and failures in a nurturing environment.

Music

2701 Freshman Choir: (Freshman) This performance class is open only to freshman students. Prior experience in a choral ensemble or previous musical instruction is desired but is not a prerequisite for enrollment. A student audition is not required. The musical literature studied ranges from Renaissance to contemporary. Major performances will be presented each semester. Students are instructed in basic music reading and theory, history and literature. Opportunities also exist for solo, ensemble, honor choir and liturgical performance.

Prerequisite: None

2 semesters

1 credit

2708 Concert Choir I, II, III: (Sophomore-Senior) This is a performance class. Prior experience in a choral ensemble or previous musical instruction is desired but not a prerequisite; a student audition is not required. The musical literature studied ranges from Renaissance to contemporary, and major performances are presented each semester. Students are instructed in basic music reading, theory, history and literature. Opportunities also exist for solo, ensemble, honor choir and liturgical performance.

Prerequisite: None

2 semesters

1 credit

2710/2711 Band I, II, III, and IV: (Freshman-Senior) This is a performance class open to wind and percussion instrumentalists. Prior experience is desired but not required for admission to the class. Beginning students will be recommended for private study outside of the class when necessary. Band functions as a marching organization during part of the fall semester and as a concert ensemble for the remainder of the year. Students enrolled in the class prior to the beginning of the school year will be informed of summer band activities. Opportunities exist for solo, ensemble, honor band/orchestra and jazz band performance. Class is held at Jesuit College Prep from 7:00-8:30 a.m. daily; students travel to Ursuline for the remainder of the school day. **Band students must take both course 2710 and 2711. In course 2710 the student can receive ½ credit Physical Education or ½ elective credit once PE requirements are met. In course 2711 the student can receive ½ credit Fine Arts or ½ elective credit once Fine Arts requirements are met.**

Prerequisite: None

2 semesters

1 credit

2712 Color Guard: (Freshman-Senior) This is a one-semester course working in cooperation with the Band class. Students are selected through an audition process held in May of the previous year. Class is held at Jesuit College Prep from 7:00-8:30 a.m. daily in the fall semester. Students travel to Ursuline for the remainder of the school day. After school practices may be scheduled throughout the semester. Note: If the student intends to continue in Concert Band for the spring semester, she needs to sign up for Band. **The student will receive ½ credit Physical Education the first year taken or can receive ½ elective credit once PE requirements have been met.**

Prerequisite: Participation by audition only.

1 semester - Fall

½ credit

2713 String Ensemble I, II, III, and IV: (Freshman-Senior) This is a performance class of orchestral string instrumentalists. Prior experience is desired but not required for enrollment. Beginning students will be recommended for private study outside of the class when necessary. The class develops individual playing skills through the study and performance of a range of music literature. Performances are scheduled throughout the year and the string ensembles from Ursuline Academy and Jesuit College Prep periodically combine for rehearsals and performances. Aspects of music theory and history are presented in the study of specific compositions. Piano students are encouraged to enroll for the course as student accompanists. Opportunities exist for solo, ensemble, and honor orchestra performance.

Prerequisite: None

2 semesters

1 credit

2714 AP Music Theory: (Sophomore-Senior) This course provides a sequential study of the elements of music — melody, harmony, texture, structure, and timbre — through ear training, sight singing, and composition. Students will learn and demonstrate basic music theory concepts, both written and aural, including melodic and rhythmic notation, chord progression and harmonization of melody. **This course is designed for only those sophomore-senior students who have previous musical training and experience.**

Prerequisite: Instructor Approval

2 semesters

1 credit

Technical Theater

2743 Light & Sound Design: (Freshman-Senior) “Every child is an artist. The problem is how to remain an artist once they grow up.” — Pablo Picasso. This class will cover the basic principles of light and sound design. Students will have hands on experience with stage lighting, recording, and editing techniques. They will have the opportunity create and communicate their ideas through their own designs. **Student requirements will include: participating in five (5) extra curriculum practicum hours of a UA production outside of class, attend and turn in a written critique of an Ursuline Academy main stage production, and parent approval to work with various shop tools under supervision.** This course may be repeated one time for credit.

Prerequisite: None

1 Semester

½ credit

2745 Set Design: (Freshman-Senior) “The world always seems brighter when you’ve just made something that wasn’t there before.” — Neil Gaiman. Set Design is the art of creating a complete environment for which a theatrical work can exist. It uses all elements of study to bring a world to life onstage. Students will have the opportunity to be creative with lights, sound, set, math, science, history, and visual arts while creating their own designs. They will have hands on experience with set construction and scene painting techniques. **Student requirements will include: participating in five (5) extra curriculum practicum hours of a UA production outside of class, attend and turn in a written critique of an Ursuline Academy main stage production, and parent approval to work with various shop tools under supervision.** This course may be repeated one time for credit.

Prerequisite: None

1 Semester

½ credit

2761 Stage Makeup Design: (Freshman-Senior) This is an introductory course that studies the theory and practice of makeup design and its application for stage. Students will explore basic make-up principles, old-age make-up techniques, and fantasy make-up design, including the creation of special effects. Students are encouraged to be a part of the make-up crew during the Ursuline main stage production. **Student requirements will include: participating in four (4) extra curriculum practicum hours of a UA production outside of class, attend and turn in a written critique of an Ursuline Academy main stage production, and parent approval to work with various shop tools under supervision.** This course may be repeated once for credit. This course is limited to 15 students.

Prerequisite: None

1 Semester

½ credit

2762 Introduction to Costuming: (Freshman-Senior) Interested in costume design but don’t think you can sew or draw? Don’t worry! Time and budget constraints challenge costumers to consider “conversion” costuming. This creative practical approach to costuming involves re-imagining, rec-cycling and re-inventing rather than pattern drafting and construction. The emphasis in the course will be creative costume design. Elements of costume

history and care will also be explored. Class will have practical experience by participating in costuming Ursuline productions. Students are encouraged to be a part of the costume crew during the Ursuline main stage production. Student requirements will include: participating in four (4) extra-curricular practicum hours of a UA production outside of class, attend and turn in a critique of an Ursuline Academy main stage production, a parent approval to work with various shop tools under supervision. This course may be repeated once for credit.

Prerequisite: None

1 semester

½ credit

Theatre Arts

2730 Shakespeare as Lit and Drama: (Senior) We have all heard of William Shakespeare, but why and how is he still relevant in our contemporary global society? What is the impact of his life and works? This interdisciplinary course seeks to answer those questions by exploring key play texts as academics as well as actors. Critical analysis, both written and through class discussion, historical context, and acting techniques will be combined to give a comprehensive experience of the Bard. No prior acting experience is necessary for success in this course. Students will engage in various forms of critical, analytical, and creative writing to refine their writing skills.

Prerequisite: English III or equivalent

2 semesters

1 credit in English or 1 credit in Fine Arts

2731 Introduction to Theatre: (Freshman-Sophomore) This is a one-semester class offering students an overview of the world of theater arts. Students will explore theatre history, design and performance. An emphasis is placed on participation in activities encouraging community, creativity and confidence, including using some class time to work on the school productions. **Student requirements will include: participating in four (4) extra-curricular practicum hours of a UA production outside of class, attend and turn in a written critique of an Ursuline Academy main stage production, and parent approval to work with various shop tools under supervision.**

Prerequisite: None

1 semester

½ credit

2732 Fundamentals of Acting: (Freshman-Senior) This is a one-semester class designed to build upon Theatre I with an emphasis on developing basic acting skills. Students will explore the fundamentals of acting as they continue voice and body work, script and character analysis and appreciation of various theories on the craft of acting. Students will use some class time participating in the mounting of the school productions. **Student requirements will include: participating in four (4) extra-curricular practicum hours of a UA production outside of class, attend and turn in a written critique of an Ursuline Academy main stage production, and parent approval to work with various shop tools under supervision.**

Prerequisites: Students must have completed one semester of a theatre class or Instructor Approval

1 semester

½ credit

2765 Improvisation: (Freshman-Senior) Fun and games? Creative and critical thinking? Improvisation is an accepted teaching and learning strategy applied to academic, scientific and professional settings to improve communication skills, foster creative, critical thinking and increase confident responses to unexpected challenges. Students will explore a variety of exercises and activities to develop creativity, confidence and cooperation. On-line, printed and multimedia resources will be incorporated in the exploration of the history, theory and application of improvisation. **Student requirements will include: participation in four (4) extra-curricular practicum hours of a UA production outside of class, attend and turn in a critique of an Ursuline Academy main stage production, and parent approval to work with various shop tools under supervision.** This course may be repeated once for credit.

Prerequisite: None

1 semester

½ credit

2739 Advanced Theatre and Production: (Junior-Senior) This year-long course is designed for advanced students with previous theatre experience. Students will have opportunities to enrich understanding and experiment with application of knowledge as they further explore directing, acting, theatre production, history and literature. The cornerstone or culmination of the course will be a student production. Students will take responsibility for all production elements; play choice, directing, design, construction and other areas of participation necessary for a

successful artistic collaboration. Students participating in this course must be available for a significant time commitment outside of class for meetings, rehearsals and production. **Student requirements will include: Participating in (5) extra-curricular practicum hours of a UA production per semester, attend and turn in a written critique of an Ursuline Academy main stage production and an additional outside Theatre Production, and parent approval to work with various shop tools under supervision.** This course may be repeated once for credit.

Prerequisites: 2 Theatre Arts classes

2 semesters

1 credit

2740 Musical Theatre: (Freshman-Senior) This semester-long course gives the student a crash course in musical theatre. The student will be exposed simultaneously to dance, acting, and vocal training. At the end of the semester we will put it all together and present a showcase for family and friends. **Student requirements will include: participating in four (4) extra-curricular practicum hours of a UA production outside of class, attend and turn in a written critique of an Ursuline Academy main stage production and a professional musical production and parent approval to work with various shop tools under supervision.** This course may be repeated once for credit.

Prerequisite: None

1 semester

½ credit

Dance

2719/2720 Dance I, II, III and IV: (Freshman-Senior) During this year-long course, students will be taught proper conditioning as well as correct dance movements and performance poise. Theory and practice will be combined to introduce the students to the principles and techniques of performing ballet, lyrical, musical theater, hip hop, jazz styles, and basic stage movement. In addition, the students will develop a working knowledge of dance vocabulary necessary for performance both as an individual and as a member of a dance company. Part of the discipline of dance includes appropriate rehearsal and performance wear which makes an enforced dress code essential for dance class. Appearance is important; students are expected to wear clean clothes to class to contribute to the pre-professional atmosphere. Dancers must provide their own shoes. Dancers will perform in 1-2 dance recitals each school year. The student must commit to these performances at the beginning of the year. Class attendance and promptitude are crucial for the class and part of the student's grade. **This is a zero-hour class that meets at 7:00-8:15 a.m. on A Days or B Days and may be repeated for credit. Some outside rehearsal time may be necessary. Dance students must take both courses 2719 and 2720. In course 2719, the student can receive ½ credit Physical Education or ½ elective credit once PE requirements are met. In course 2720, the student can receive ½ credit Fine Arts or ½ elective credit once Fine Arts requirements are met.**

Prerequisite: Instructor Approval.

2 semesters

1 credit

Speech

2201 Introduction to Speech Communication: (Freshman-Sophomore) This one-semester course is designed to enhance the student's ability to express her thoughts and feelings in a public venue with greater ease, clarity, efficacy, and confidence. Class content includes the essential elements of communication as well as the application of these elements for use in presentations. The student will prepare and deliver four to six major speeches as well as a number of impromptu speeches which will vary in scope and sophistication. Emphasis will be placed on preparation/writing of speeches, the critical thought process involved, and the development of executive presentation skills and techniques including the use and incorporation of current technological tools to enhance presentations.

Note: This course is a graduation requirement that is separate from other Fine Arts requirements.

Prerequisite: None

1 semester

½ credit

Electives

2709 Jazz Choir I, II, III, IV: (Freshman-Senior) This after school performance class is designed for students desiring specific knowledge and performance experience in jazz and contemporary music styles. Emphasis will be placed upon the history, literature and vocal performance of twentieth century American jazz and related popular music.

Students will 1) develop a working knowledge of jazz style and technique, 2) rehearse and perform literature in two, three, and four parts, both accompanied and unaccompanied, 3) explore jazz improvisation, and 4) study the history and representatives of the genre. The students will present public performances throughout the year. **Class meets after school on Tuesday and Thursday during the year with elective credit awarded in the spring.**

This course cannot be used to meet the Fine Arts requirement.

Prerequisite: Participation by audition only

2 semesters

½ credit

2716 Drill Team: (Freshman-Senior) In order to receive elective credit, the student must practice or actively participate from the starting date of try-out/practices for Rangerettes to the last day of practice/competition in the spring semester. Students must meet requirements and criteria of the program regarding absences, competition and, uniform/equipment collection in order to receive credit. The student will receive Pass/Fail designations at the end of the spring semester. **This course cannot be used to meet the Fine Arts requirement.**

Prerequisites: Participation by audition and Coach Approval

1 semester: Spring

½ credit

2750 Theatre Production: (Freshman-Senior) This after school class provides practical hands-on experiences in acting, singing, dancing, and stagecraft through the rehearsal and public performance of plays and/or musicals at Ursuline Academy. This opportunity for exploration, development, and synthesis of the elements of theatre is open to all grade levels. All attendance rules of the Academy apply even though the class meets after regular school hours. Each student is expected to read the Production Handbook and be familiar with all course requirements. A one-half graded elective credit per semester may be earned after a student completes 80 cumulative hours of satisfactory work in rehearsals and performance. **This course cannot be used to meet the Fine Arts requirement but may be repeated for elective credit.**

Prerequisite: Participation by audition only

1 semester

½ credit

Physical Education

The goal of the Physical Education at Ursuline Academy is to enable students to gain the awareness, knowledge and skills essential for a healthy future. Wellness emphasizes the importance of making good choices and the impact those choices have on an individual and society. Students are encouraged to learn about the various components of Wellness, including spiritual, physical, mental, emotional, and social well-being. Students are challenged to discuss issues pertinent to their own lives and develop ways to bring awareness to their peers about such important topics. The curriculum includes topics of Nutrition, Fitness, Cardio Pulmonary Resuscitation (CPR) certification, Stress Management, Body Image, and Teen Issues. Through project-based learning and various forms of physical activity, Wellness and Physical Education classes allow students to develop leadership, team work, and respect for individual differences.

Note: Beginning with the School Year 2014-2015: All students must complete ½ credit of Wellness and ½ credit in one of the following: another Physical Education course, Band, Color Guard, Dance, Selected Activities, or one of the Athletic Sport teams offered by Ursuline Academy.

Participation in additional athletic seasons may be repeated for elective credit.

8132 Wellness: (Freshman-Sophomore) This course is designed to guide students throughout the many dimensions of Wellness (spiritual, physical, mental, emotional, occupational, and social) and provide an atmosphere to discuss and learn about how to live a healthy and stress-free life. Students will develop skills needed to maintain an active lifestyle, learn the importance of nutrition, and discover how to find a healthy balance of all facets of Wellness. Students will also engage in building essential skills needed to maintain optimal health while developing ways to promote healthy lifestyles in our diverse society. In addition, students will complete a course in Heartsaver CPR, Embody Love, Managing Stress, Healthy Behaviors, Nutrition, and Fitness.

Prerequisite: None

1 semester

½ credit

Electives

8230 Strength and Conditioning for Athletic Performance: (Sophomore-Senior)

This course will teach athlete proper biomechanics and techniques for lifting and sport related movements.

Athletes will learn the importance of proper lifting techniques as means to prevent injuries. Athletes will examine their own personal deficits in strength and flexibility and develop a plan to improve it. Athletes will start with basic body weight exercises and advance to plyometric and sport specific activities as the semester progresses. Athletes will also learn about proper nutrition for athletes based on their specific caloric and fuel needs. This class will be offered to complement the strength and conditioning programs of each sport at Ursuline, as well as offering a safe environment for students to increase their strength and conditioning if they do not participate in Ursuline Athletics. This course may be repeated for elective credit.

Prerequisite: Wellness

1 semester

½ credit

8235 Sports Medicine: (Sophomore-Senior) This course provides an overview of the various fields of sports medicine and basic musculoskeletal anatomy. Students will learn about the evaluation, prevention and rehabilitation of sports injuries. Students will learn how to use training equipment and materials, learn up to date procedures for athletic training, and learn about current issues in sports/athletic training. **This course requires five (5) extracurricular practical hours that must be filled by working with UA Athletes and the Athletic Trainer outside of regular school hours throughout duration of the semester.** Student must complete the application process before acceptance into class.

Prerequisites: Wellness

1 semester

½ credit

8245 Spinning 101: (Sophomore-Senior) Students will explore working their heart, lungs, muscles, and mind together in this fitness journey that applies real training principles of bicycle racing, in a non-competitive environment. In class, the students will participate in cycling and discover how the intensity of the workout is influenced by cadence, resistance of the bike's wheel and the student's body position on the bike. Typical workouts will include warm-up, steady up-tempo cadences, sprints, climbs, and cool-downs. This is a multi-level class and requires no outside cycling experience. This course may be repeated for elective credit.

Prerequisite: Wellness

1 semester

½ credit

8246 Fitness for Life: (Sophomore-Senior) This course will emphasize the importance of lifelong physical fitness. Students will explore a wide variety of activities that contribute to a healthy lifestyle by participating in sports, games, dance, circuit training, aerobic exercises, and meditation. This is a student-driven curriculum, based on the needs and interest of each class. This course may be repeated for elective credit.

Prerequisites: Wellness

1 semester

½ credit

8250 Mindfulness and Stress Management: (Sophomore-Senior) This course will teach students to evaluate stress triggers and how to handle them appropriately. Students will learn the basics of Mindfulness, Meditation, and Yoga as an active stress relief. The class will also learn and discuss other daily habits that influence stress such as sleep, nutrition, and social media. Students will explore multiple stress management techniques and determine the ones that best fit their needs. Students will practice mindfulness, prayer reflection, or yoga for a portion of each class period as a way for students to de-stress and refocus.

Prerequisites: Wellness

1 semester

½ credit

2710/2711 Band I, II, III, and IV: See Performing Arts Page 12 for description.

2712 Color Guard: See Performing Arts Page 12 for description.

2719/2720 Dance I, II, III, IV: See Performing Arts Page 16 for description.

Athletics

Note: All Athletic PE credits will be Pass/Fail. For the courses listed below, students can only receive a ½ credit of PE. Participation in additional seasons may be repeated for elective credit. A student cannot receive more than ½ credits per semester for Athletics. Students receiving PE credit for Athletics are required to follow the policies and procedures stated in the UA Student Handbook, as well as the rules and regulations stated in the UA Athletic Paperwork.

8550 Fall Freshman Sports: (Freshman) In order to receive PE credit, the student-athletes must actively participate from the starting date of try-out/practices to the last day of practice/competition. Freshman sport meeting this condition is: volleyball. Student-athletes must meet requirements and criteria of the program regarding absences, competition and uniform/equipment collection in order to receive credit.

Prerequisite: Athletic Director and Coach Approval

1 semester: Fall

½ credit

8555 Spring Freshman Sports: (Freshman) In order to receive PE credit, student-athletes must actively participate from the starting date of try-out/practices to the last day of practice/competition. Freshman sport meeting this condition is: basketball. Student-athletes must meet requirements and criteria of the program regarding absences, competition and uniform/equipment collection in order to receive credit.

Prerequisite: Athletic Director and Coach Approval

1 semester: Spring

½ credit

8600 Fall Junior Varsity Sports: (Freshman-Junior) In order to receive PE credit, the student-athletes must actively participate from the starting date of try-out/practices to the last day of practice/competition. Junior varsity sports

meeting this condition are: cross country and volleyball. Student-athletes must meet requirements and criteria of the program regarding absences, competition and uniform/equipment collection in order to receive credit.

Prerequisite: Athletic Director and Coach Approval

1 semester: Fall *½ credit*

8610 Spring Junior Varsity Sports: (Freshman-Junior) In order to receive PE credit, student-athletes must actively participate from the starting date of try-out/practices to the last day of practice/competition. Junior varsity sports meeting this condition are: soccer, basketball, swimming and diving, softball, track and field, tennis, golf, crew and lacrosse. Student-athletes must meet requirements and criteria of the program regarding absences, competition and uniform/equipment collection in order to receive credit.

Prerequisite: Athletic Director and Coach Approval

1 semester: Spring *½ credit*

8620 Fall Varsity Sports: (Freshman-Senior) In order to receive PE credit, student-athletes must actively participate from the starting date of try-out/practices to the last day of practice/competition. Varsity sports meeting this condition are: cross country and volleyball. Student-athletes must meet requirements and criteria of the program regarding absences, competition and uniform/equipment collection in order to receive credit.

Prerequisites: Athletic Director and Coach Approval

1 semester: Fall *½ credit*

8630 Spring Varsity Sports: (Freshman-Senior) In order to receive PE credit, student-athletes must actively participate from the starting date of try-out/practices to the last day of practice/competition. Varsity sports meeting this condition are: soccer, basketball, swimming and diving, softball, track and field, tennis, golf, crew, and lacrosse. Student-athletes must meet requirements and criteria of the program regarding absences, competition, and uniform/equipment collection in order to receive credit.

Prerequisites: Athletic Director and Coach Approval

1 semester: Spring *½ credit*

8705 Selected Activities/Rangerettes: (Freshman-Senior) In order to receive PE credit, the student must actively participate from the starting date of try-out/practices to the last required practice/event during the fall semester. Rangerette students must meet requirements and criteria of the program including but not limited to absences, performances, uniform/equipment collection and/or financial commitments in order to receive credit. The student will receive Pass/Fail designations at the end of the fall semester.

Prerequisites: Athletic Director and Coach Approval

1 semester: Fall *½ credit*

8710 Selected Activities/Cheer: (Freshman-Senior) In order to receive PE credit, the student must actively participate from the starting date of try-out/practices to the last day of practice/competition in the spring. Activities meeting this condition are: Cistercian Cheer, and Jesuit Cheerleading. Students must meet requirements and criteria of the program regarding absences, performances and competitions in order to receive credit. The student will receive Pass/Fail designations at the end of the spring semester.

Prerequisites: Athletic Director and Coach Approval

1 semester: Spring *½ credit*

Science

The science department at Ursuline Academy offers interactive, relevant, and rigorous curricula that both challenge and engage students in the process of science. The curricula are designed to pique the student's natural curiosity about science, train her to use scientific equipment, and encourage her to ask meaningful questions about scientific events occurring throughout the world, as well as in her daily life. Inquiry based science laboratory work encourages conceptual learning and development of problem solving skills in each discipline. The ultimate goal of this department is to develop the individual student's critical thinking skills, to enable her to become a scientifically literate citizen who embraces the challenges of working in a global society.

Note: Any student interested in double tracking needs to contact the Science Department Chair for the approval process.

4109 Physics I: (Freshmen) This course is designed to introduce students to scientific inquiry through the study of mechanics. Students will develop problem-solving skills as they build graphical and mathematical models from their laboratory results. These models will then be used to explain and describe the world we live in. The emphasis of the course will be on linear motion, forces, energy, mechanical waves, momentum, projectile motion and electricity. Students will also develop laboratory skills using the scientific method and oral and written presentation of laboratory investigations.

Prerequisite: None

2 semesters

1 credit

4110 Physics I Honors: (Freshmen) This course is designed to introduce students to scientific inquiry through the study of mechanics. Students will develop problem solving skills as they build graphical and mathematical models from their laboratory results to explain the world they live in. Students are expected to have a solid understanding of basic Algebra I concepts as the models developed will be applied to complex situations. The emphasis of the course will be on linear motion, forces, energy, and mechanical waves, as well as laboratory skills, the scientific method, and oral and written presentation of laboratory investigations.

Prerequisite: Departmental Approval

2 semesters

1 credit

4221 Chemistry I: (Sophomore) This course is designed to provide a basic knowledge of chemistry. Topics studied include matter, energy, and the SI system of measurement, the periodic table, molecular structure, chemical bonding, nomenclature, chemical equations, stoichiometry, equilibrium and modeling the atom. Appropriate laboratory investigations accompany course units. Written laboratory reports and quarter reports are assigned throughout the year.

Prerequisite: Physics I

2 semesters

1 credit

4223 Chemistry I Honors: (Sophomore) This is an introductory laboratory course in chemistry. Emphasis will be placed on the particle nature of matter, with special focus towards the role of energy in chemistry. Students will learn to analyze data and hone critical thinking skills rather than memorize a wide breadth of knowledge. Honors laboratory exercises emphasize great care in observation and measurement, the preparation of data tables and their interpretation. The Honors course requires special projects with written reports.

Prerequisites: Physics I H or Physics I with Departmental Approval.

2 semesters

1 credit

4328 Biology I: (Junior) This is an inquiry-based course that introduces students to the world of living things. The students will explore basic life processes at the molecular, cellular, systemic, organismal, and ecological levels of organization within the biosphere. Concepts from physics and chemistry will be integrated into the curriculum to better understand how organisms work at the cellular level. Interdependence and interactions within the environment will be examined and natural phenomena, such as energy and homeostasis, will be observed. The nature of science and how to correctly implement the scientific method will be emphasized regularly during inquiry-based labs.

Prerequisites: Chemistry I

2 semesters

1 credit

4329 Biology I Honors: (Junior) This is an inquiry-based course that will emphasize how living organisms work at the molecular and cellular levels. This class will build upon the models developed in physics and chemistry to better explain how a cell, energy, genetics, and homeostasis work within organisms. Interdependence of living things will be emphasized and natural scientific phenomena will be observed and tested. Inquiry-based labs will be used to help students better understand how organisms operate, change, and interact in the complex biosphere over both the short and long term.

Prerequisites: Chemistry I H or Chemistry I with Departmental Approval

2 semesters

1 credit

Electives

Physics, Chemistry, Biology and one (1) additional credit currently are required for graduation.

4211 Environmental Science: (Senior) This is a laboratory science course that introduces the student to the fundamental concepts and terminology of environmental science. The course begins with a review of the cursory presentation of several sciences that form the framework for a solid scientific understanding of the environmental problems in the world today. These include biology, ecology, chemistry, demography, and philosophy. Students are encouraged to discover and understand the interconnectedness of all the earth's systems and the impact that each system has on the others. Students will perform controlled experiments, field studies and modeling in order to better understand the dynamics affecting the environment. Each student is expected to develop her own environmental perspective based on what she has learned in the course.

Prerequisite: None

2 semesters

1 credit

4215 Geology, Meteorology, Oceanography (GMO): (Senior) In Geology, Meteorology, & Oceanography (GMO), students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: characteristics and conditions of the Earth, including formation and history of the Earth, plate tectonics, origin and composition of minerals and rocks and the rock cycle, processes and products of weathering, characteristics of oceans, characteristics of the atmosphere, and the role of energy in weather and climate.

Prerequisite: None

2 semesters

1 credit

4411 Anatomy & Physiology: (Senior) This course is designed to be a fast paced class for seniors who are interested in health related careers, such as medicine, nursing, physical therapy, or athletic training. The goal of the course is to prepare students with necessary skills and knowledge to be successful in their future anatomy and biology classes in college. The environment in the class provides opportunities for analysis of data through experiments, observation of tissues, construction of models, identification of interrelationships among body systems, and exploration of relationships between structure and function in the human body.

Prerequisite: None

2 semesters

1 credit

4415 Engineering Design Innovation: (Sophomore-Senior) Students learn how engineers create, design, and test the technologies and devices of the 21st century using math, science, computer science and creative skills. In particular, students learn multiple problem-solving strategies including Design Thinking, the 6 D's, and the Engineering Design Process. They use these ways of thinking to solve real-world problems, build prototypes, and

test their solutions. Students learn from both regular classroom lectures and from hands-on design projects. Students spend 80% of instructional time conducting engineering field and laboratory activities. The activities include mechanical engineering (robotics and ballistic devices), civil engineering (drafting, architecture and construction), systems and logistics, computer engineering (digital logic design, mobile app design, coding, and 3D printed structures) and biomedical engineering (prosthetic design).

Prerequisite: Physics 1

Corequisite: Algebra II, Chemistry

2 semesters

1 credit Senior Science elective or 2 semester–1 credit Computer Science

4432 Human Anatomy Honors: (Senior) This course examines the relationships between structure and function of the integumentary, skeletal, muscular, nervous, endocrine, sensory, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems of the human body. Cat dissection and other laboratory experiments are performed, along with computer simulations of various physiological processes. There will be an emphasis on conditions of medical significance throughout the course.

Prerequisite: Departmental Approval

2 semesters

1 credit

4335 Physics II Honors: (Senior) This course is a continuation of Physics I and Physics I Honors and will complete the set of topics required for the SAT subject test in physics. The course is appropriate for students who have an interest in the physical sciences, and may be considering a STEM or related degree in college. Topics studied will be fluids, thermodynamics, electricity, magnetism, waves, ray and particle models of light, quantum and nuclear physics, with a strong emphasis on laboratory investigation. Successful completion of Physics II Honors will provide a good foundation for students who plan to enroll in advanced college physics courses.

Prerequisites: Physics I Honors or Physics I with Departmental Approval

2 semesters

1 credit

4533 AP Physics C: Mechanics: (Senior) This is a college-level Physics course restricted to mechanics, electricity and magnetism, time permitting. Its mathematical treatment requires Calculus, and it is equivalent to college level courses in physics, mathematics, chemistry, and engineering. Solving complex problems will be the norm in this course. Laboratory work involves experiments in mechanics, electricity and magnetism, and other topics as time allows. The course prepares students for the AP Physics C College Board examination.

Prerequisites: Physics I Honors or Physics I with Departmental Approval

Co-requisite: Enrollment in Calculus, Calculus AB or Calculus BC

2 semesters

1 credit

4436 AP Chemistry: (Senior) This college-level course follows a stated curriculum submitted by the College Board for Advanced Placement. The course centers around six “big ideas” which include the structure of matter, bonding and intermolecular forces, chemical reactions, kinetics, thermodynamics, and chemical equilibrium. Students will develop a deep understanding of these big ideas through the application of seven science practices which are reinforced through a minimum of 16 hands-on lab investigations. Several of these lab investigations will be inquiry-based with guidance. The course is taken with the idea in mind that students will take the AP Exam to receive college credit equivalent to the general chemistry course usually taken during the first year of college.

Pre-requisite: Chemistry IH or Chemistry I with Departmental Approval

2 semesters

1 credit

4511 AP Biology: (Senior) This college-level Biology course follows a stated curriculum developed by the College Board for Advanced Placement to provide students with the conceptual framework, factual knowledge, and analytical skills needed to understand and critically evaluate the unifying principles and rapidly changing issues of a biological science. Four overarching ideas, or themes, provide the main organizing structure of the course. These themes are evolution, cellular processes, genetics and information transfer, and ecology. Approximately 25 percent of instructional time is dedicated to laboratory investigations, including inquiry-based, student-directed labs. The reading load reflects that of a college level course, including a college-approved textbook. Major research projects and case studies will be included. Students are expected to be independent learners concerning prerequisite material, and a summer project may be assigned to fulfill this requirement.

Prerequisite: Physics I, Chemistry I, Biology I and Departmental Approval

2 semesters

1 credit

4605 Medical Microbiology: (Junior-Senior) This lab science course focuses on the classification, cell structure, metabolism, and historical concepts of microorganisms, including bacteria, viruses, fungi, and protists. Methods of transmission and prevention and treatment of diseases caused by pathogenic organisms will be studied. Laboratory methods will include experimentation with pure cultures of microorganisms, staining techniques, culturing of bacterial stocks, antibiotic sensitivity testing, and diagnostic techniques including serological testing.

Prerequisites: Chemistry and Biology or concurrent enrollment in Biology

1 semester (offered Fall semester only)

½ credit

4610 Immunology: (Junior-Senior) This survey course focuses on the study of the vertebrate immune system. Topics covered include general properties and development of specific and nonspecific types of immunity, the immune system in health and disease, antibody and antigen interactions, hypersensitivity, inflammation, immunodeficiency diseases, autoimmunity, transplantation immunology, and vaccines. Laboratory activities will reinforce concepts and principles presented.

Prerequisites: Chemistry and Biology or concurrent enrollment in Biology

1 semester (offered Spring Semester only)

½ credit

Social Studies

The core values and mission statement of Ursuline Academy are woven throughout the study of history and the social sciences. Through the Social Studies curriculum, students explore the relationship between the present and the past. Within that framework, the members of the Social Studies department are dedicated to preparing young women for leadership in a global society by instilling in their students a curiosity for and understanding of the major political, economic, social, and cultural developments that have created the modern world.

6132 Historical Geography: 10,000 B.C.E. to 1400 C.E.: (Freshman) This course examines the influence of geography on the major peoples and regions of the world. It explores the impact of geography in the shaping of historical, economic, political, social, and cultural events. Through the use of primary and secondary sources and with application of available technology, students will develop essential learning skills to provide a foundation for future studies in history and the social sciences.

Prerequisite: None

2 semesters

1 credit

6233 World History: 1400 C.E. to Present Day: (Sophomore) This course focuses on the history of the world through the study of people, events and issues. Through the use of primary and secondary sources and with application of available technology, this course examines the impact of geographical, political, social/cultural and economic factors on the contemporary world.

Prerequisite: Historical Geography

2 semesters

1 credit

6212 World History Honors: 1400 C.E. to Present Day: (Sophomore) This course encompasses major civilizations in a global context beginning in 1500 concluding with the onset of the Cold War. It challenges students to think in interregional contexts while focusing on the integration and evolvement of major historical themes. There is a marked focus on analysis of primary sources and class discussions. The course builds upon the freshman year's ancient and medieval curricula. Students will develop a large historical written and oral vocabulary, write analytical essays, present individual and group research and improve their presentation skills. There is a continuous focus on perceiving world news viewed in historical context.

Prerequisites: Historical Geography and Departmental Approval

2 semesters

1 credit

6333 United States History: (Junior) This course is a survey of significant American events from the Age of Colonization to the late 20th century. Emphasis is placed on the economic, political and cultural events that contributed to the formation of an American society that reflects pluralism. The rise to power of the United States is traced as well as its acceptance of global responsibility.

Prerequisite: World History

2 semesters

1 credit

6303 AP United States History: (Junior) This course is a survey of significant American events and themes from pre-Columbian America to present. Emphasis is placed on concepts, connections, and historical thinking skills outlined by the College Board. The seven themes are: (1) identity, (2) work, exchange, and technology, (3) peopling, (4) politics and power, (5) America in the world, (6) environment and geography, (7) ideas, beliefs and culture. The course will follow how these themes have formed, changed and guided the history of America. In doing so, students will continue to develop the ability to think like a historian specifically honing: chronological reasoning, comparison and contextualization, crafting historical arguments, and historical interpretation and synthesis. It is designed to fulfill state requirements for high school graduation, while preparing the student for the AP US History College Board Exam. In addition, the study of U.S. history provides the student with a better understanding of American's role in an interconnected world.

Prerequisites: World History and Departmental Approval

2 semesters

1 credit

6434 Government: (Senior) This course introduces students to the fundamentals of American government and politics, particularly the major institutions and processes. It also aims to develop students' skills and abilities in analyzing and evaluating issues and public policies in American politics as well as the role of the United States on the world stage.

Prerequisite: United States History

1 semester

$\frac{1}{2}$ credit

6404 AP US Government and Politics: (Senior) This course is an intensive study of the formal and informal structures of the US government and the processes of the American political system. Students will analyze the framework of government (the legislative, judicial, and executive branches), with an emphasis on policy-making and implementation. This course facilitates the preparation for the AP Government College Board Exam.

Prerequisites: United States History and Departmental Approval

1 semester

$\frac{1}{2}$ credit

6435 Macroeconomics: (Senior) This course is the study of American society and the free enterprise system. Emphasis is placed upon how society uses its limited resources and produces, distributes and, consumes goods, and services in order to satisfy the unlimited wants of its members. General principles of economics are presented including theory of supply and demand, money and banking, and monetary and fiscal policies.

Prerequisite: United States History

1 semester

$\frac{1}{2}$ credit

6405 AP Macroeconomics: (Senior) This course gives students a thorough understanding of the principles of economics that apply to an economic system as a whole. This course places particular emphasis on the study of national income and price determination and also develops students' familiarity with economic performance measures, economic growth and international economics. This course prepares students to take the AP Macroeconomics College Board Exam.

Prerequisites: United States History and Departmental Approval

1 semester

$\frac{1}{2}$ credit

Electives

6633 Psychology: (Junior-Senior) This course is designed to examine the principles of human behavior, the challenges of human experience, and the universal aspects of our diverse global society. Additional topics considered include heredity and environment, motivation and emotions, cognition and language, social psychology, abnormal psychology, and intelligence. The study of psychology offers useful insight into the behavior and mental processes of oneself and others. The study of the behavior of the individual correlates directly with the Ursuline core value, "respect for the uniqueness of the individual," and the global nature of human culture, and is an investment in the lifelong process of education. It is an investment in the lifelong process of education.

Prerequisite: None

1 semester

$\frac{1}{2}$ credit

6603 AP Psychology: (Junior-Senior) This course is designed to examine the principles of human behavior, the challenges of human experience, and the universal aspects of our diverse global society. Additional topics considered include heredity and environment, motivation and emotions, cognition and language, social psychology, abnormal psychology, and intelligence. The course is also designed to prepare the student to take the AP Psychology Exam administered by the College Board each May. The study of Psychology offers useful insight into the behavior and mental processes of oneself and others. The study of the behavior of the individual correlates directly with the Ursuline core value, "respect for the uniqueness of the individual," and the global nature of human culture and is an investment in the lifelong process of education.

Prerequisite: Departmental Approval

2 semesters

1 credit

6401 AP European History: (Junior-Senior) This course covers European History from c. 1450 through the present day. Students will explore social, political, technological, and economic developments in European History. Students will read extensively from multiple primary and secondary source documents. This course prepares students to take the AP European History College Board Exam.

Prerequisite: Departmental Approval

2 semesters

1 credit

6620 History Through Film: REEL History: (Sophomore-Senior) This course will study what is valid in contemporary films and historical dramas and examine what these films say about the people who create them, the politics behind their creation, and how they reflect the values, ideas, and larger historical issues of the times in which they were created. In addition, we will touch on the history of Hollywood and the motion picture industry itself and examine, from time to time, the changes in film technology, techniques, and/or in the “politics” of the business. A wide range of primary source materials will be used for this purpose. Students will view movies on various topics and participate in Inner/outer Socratic seminar discussions, and write essays comparing that film evidence to information in more traditional sources, such as articles, film reviews and critical commentaries.

Prerequisite: None

1 semester

½ credit

6644 A Portrait of the Medieval World: (Junior-Senior) Was the Middle Ages a time when darkness descended over Europe and the continent fell into a forgetful and fitful sleep? Or was it a period filled with knights and chivalry, lords and ladies, castles and cathedrals? Or somewhere in between? “A Portrait of the Medieval World” will provide a glimpse into this time period and students will draw their own conclusions. In the course, we will delve into the literature and history of the Middle Ages looking broadly at the medieval woman, monarchies, the impact of the Black Plague, the evolution of the English language, creation of medieval manuscripts and the role of art and architecture. There will be guest lecturers on theology, science, and theatre as we explore, with breadth and depth, the major works of literature of the medieval world and their historical contexts.

Prerequisite: World History

1 semester

½ credit

6645 The Age of Enlightenment: (Junior-Senior) How do you know if something is true? What shapes our understanding of the world around us —religion, reason, science, emotion? The quest to define “truth” served as the foundational debate of the Long Eighteenth Century, often known as the Age of Enlightenment. We will explore the nature of truth through philosophy, history, literature, art, and architecture. Engage with Enlightenment thinking as you debate your ideas in a Salon, write your own version of Swift’s “A Modest Proposal,” design your own government, and create a fictional history for the figures in a painting or imagine the lives of people who inhabited a building.

Prerequisite: World History

1 semester

½ credit

6650 Lone Star Nation: A History of Texas and Texans: (Junior-Senior) Texans take their history seriously. After all, Texas is the second largest state in the union, the only state to have existed as an independent country, and produced three presidents (and one presidential assassination). Geographically and environmentally diverse, Texas has played an integral national role in the development of industries including lumber, oil, cattle, cotton, and electronics. The state has also undergone a remarkable political transformation in the last several decades, shifting from solidly Democratic to reliably Republican. Home to a wide range of peoples and cultures — Hispanic, African-American, Anglo-American, and Native American — Texas has a rich, yet violent, history of racial and cultural interaction. This course will stretch from pre-Columbian times through the beginning of the twenty-first century. Topics of investigation will include Catholic missionary efforts, the contest between European and native peoples, the independence and annexation movements, the range cattle and oil industries, the political shift from New Deal liberalism to modern conservatism, and the growing importance of immigration and border enforcement. It will incorporate a multicultural approach to American history, expose students to the highest level of scholarly work, and give them a sense not only of their state’s past, but a better understanding of how and why it operates like it does in the present-day.

Prerequisite: World History

1 semester

½ credit

6655 Inside Nazi Germany: (Sophomore, Junior, and Senior): This course will focus on the central question of whether Nazism is a uniquely German experience or a potential danger to any highly developed society. We will examine reasons for Hitler's rise to power, the nature and purposes of his dictatorship, the move toward war, and the genocide of racial 'undesirables.' Focus will be given to a series of central ideas and questions: Moving from the horrors and depravity of the First World War to an attempt at German democracy under the Weimar Republic, we will investigate the roots of German Nazism. Once the Nazis secured power, we will study the role of all aspects of German society under Nazi control. Were the Nazis inevitable in their conquest or could they have been stopped? Throughout the course, we will look at ordinary Germans, and eventually other Europeans, to see how they felt about and acted towards the regime. Why did Hitler start, and then expand, a war that was similar to the war Germany had just fought and lost a generation before? How did the Holocaust come about and why was so little done during the war, despite many governments and relief agencies knowing what was happening?

Excerpts adapted from Dr. Donald Niewyk

Prerequisite: World History

1 semester

½ credit

Theology

The Theology Department is engaged in an ongoing academic curriculum and spiritual formation which explores the mystery of the divine and human relationships. Our spiritual formation embodies a lifestyle motivated by love and expressed in prayer and service. Our academic curriculum guides young women in seeking a mature understanding of Catholic Church teaching, emphasizing the role of women in the life of the Church and the greater world. This department enhances the Ursuline charism of Serviam through an increased awareness of God's deep personal love and our response to choose eternal life with Him.

7132 Revelation and Scripture: All Freshmen choose this course.

Fall: The Revelation of Jesus Christ in Scripture: In this course, students will delve into the Old Testament and see it come to life, as they experience God's Word in a personalized manner and discover Biblical inspiration and theological Truths. Particular attention will be given to the overall scope of salvation history, divine authorship of Scripture, and God's unfailing relationship with His people which bridges the gap between the Old and New Covenants, leading up to the Christmas story.

Prerequisite: None

1 semester: Fall *½ credit*

Spring: Who is Jesus Christ: In this course, students will journey throughout the New Testament, experiencing the living Word of God in the person of Jesus Christ. As the living Word of God and the second person of the Blessed Trinity, Jesus brings new meaning to the exploration of the Gospels. Themes covered include Jesus' infancy, ministry, miracles, parables, crucifixion, resurrection, and how the world has been forever changed.

Prerequisite: None

1 semester: Spring *½ credit*

7232 Jesus, Salvation and the Church: All Sophomores choose this course.

Fall: The Mission of Jesus Christ (The Paschal Mystery) Where does true happiness come from? How does what happened in the garden of Eden affect the world we live in today? Why did these events require the death and resurrection of the Son of God? How does God's becoming man ultimately reveal the depth of the Father's love for humanity? How does Jesus' earthly life 2,000 years ago serve as a model for us today? What does it mean to become a partaker in the divine nature? How does one follow Jesus and what does life look like after death? All these questions and more will be examined and answered in this course.

Prerequisite: Freshman Theology

1 semester: Fall *½ credit*

Spring: Jesus Christ's Mission Continues in the Church: The purpose of this course is to discuss and explore the following: Why did Christ establish the Church? Who were the first appointed leaders of the Church? How does the Holy Spirit lead and guide the Church today? How is the Church both human and divine? What are the models of the Church, and what are some examples of how the Church has lived them out in her 2,000 year history? How does the Church operate in the world today? Why would one want to belong to an organized religion?

Prerequisite: Freshman Theology

1 semester: Spring *½ credit*

7335 Sacraments: Privileged Encounters with Jesus Christ: (Junior) Rooted in Christ's ministry and applied by the Church, this course guides students to better understand how Jesus is personally and visibly present in the actions of the Sacraments. Students discover how the sacraments fulfill the human need for physical manifestations of the spiritual. The course ultimately aims at instilling the value of Sacraments as tools to help us on our journey to heaven and as personal experiences of Christ's grace.

All Juniors choose this course.

Prerequisite: Sophomore Theology

1 semester: Fall *½ credit*

7336 Morality: Life in Christ: (Junior) This course aims at directing students to virtue as a path to true and lasting happiness. It challenges students to ask hard and honest questions concerning their actions and moral choices as young disciples living in the 21st century. At the end of this course, students should better understand the moral reasoning of the Church's teachings and how to form their consciences accordingly.

All Juniors choose this course.

Prerequisite: Sophomore Theology

1 semester: Spring *½ credit*

All Seniors are required to select two of the following:

7440 Living as a Disciple of Jesus Christ in Society: (Senior) Living as a Disciple prepares students for living in a just manner beyond graduation. The Christian understanding reveals that God desires a world in which all facets of life are guided by justice and charity. Jesus has called upon us to build his kingdom on earth. The Church, therefore, has been faithful to fostering a just and peaceful world. This course, integrating the learning of the past three years, uses the Gospels and Catholic Social Teaching to help students appreciate the richness of the Church's social mission. Topics to be addressed include the dignity of the human person, poverty, homelessness, older adults, discrimination, and ecology.

Prerequisite: Junior Theology

1 semester: *½ credit*

7442 Ecumenical and Interreligious Issues: (Senior) The purpose of this course is to acquaint students with the different Major World Religions and Non-Catholic Christian communities. By engaging in a detailed study of the scripture and works of the various religions and communities, the course will expose the students to diverse traditions, doctrines, cultures, and histories. Additionally, the students will be exposed to the way these communities share similar beliefs with the Catholic Church. The course also intends to help students identify what common threads join humanity together in its search to understand God, Non-Catholic Christians as well as to other religions of the world. Building on the foundational truth that Jesus Christ established the Catholic Church and entrusted to her the fullness of God's Revelation, the course is intended to help students to recognize the ways in which important spiritual truths can also be found in Non-Catholic Christian churches and ecclesial communities as well as in Non-Christian religions. It is also intended to help them recognize the ways in which other systems of belief and practice differ from the Catholic faith.

Prerequisite: Junior Theology

1 semester *½ credit*

7444 Sacred Scripture: (Senior) The purpose of this course is to develop an appreciation and understanding of the principles found within Sacred Scripture. As a survey course, specific sections of the Old and New Testament will be presented in order to create an overview of the importance of Scripture study and its relationship to our faith life. The Old Testament will have an emphasis on the Pentateuch, historical books, prophets, and wisdom literature. The New Testament focus will be on a survey of the gospels and the letters of Paul. The course is designed to project a sense of unity between the Old and New Testament. The students will benefit from this course by learning about the history of salvation as it relates to our present day faith experiences with our loving, merciful God.

Prerequisite: Junior Theology

1 semester *½ credit*

7450 Church History: (Senior) The purpose of this course is to supply the students with a general knowledge of the Church's history from apostolic times to the present. They will be introduced to the fact that the Church was founded by Christ through the Apostles and is sustained by him throughout history through the grace and working of the Holy Spirit. The students will come to know that the Church is the living Body of Christ today and, as such, has both divine and human elements. In this course, students will learn about the Church's 2,000 years of history and about how the Church is led and governed by the successors of the Apostles.

Prerequisite: Junior Theology

1 semester *½ credit*

Elective

7531 Peer Ministry and Liturgy: (Junior-Senior) In this year-long course, students will receive formation to cultivate and integrate their faith in daily life. Through the witness of their lives, peer ministers will be servant leaders, accompanying peers along the journey of faith, planning and serving in liturgies and prayer services, and deepening their own relationships with God. The course will include class discussions, planning sessions, some assigned readings, and an occasional written reflection. Grades are determined on a Pass/Fail basis and will be included on the transcript. **NOTE: This course cannot be taken in place of Junior or Senior-level required Theology courses. Students may take this course in addition to their other classes.**

Prerequisite: Application and Interview

2 semesters: 1 credit

Visual Arts

The Visual Arts Department strives to foster the creative and artistic development of each individual student in a Christian environment. Students are challenged to effectively express their personal thoughts and ideas creatively. Instructors strive to challenge and inspire each student's imaginative and reflective thinking while developing their technical and problem-solving skills. A discipline-based Visual Arts curriculum promotes learning from observation, developing technical skills, exploring a variety of art mediums, and encouraging an individual voice through hands-on projects and analysis of historical and contemporary art. The department seeks to cultivate self-esteem and support Serviam by encouraging students to produce socially conscious art work, using the medium of fine art to address issues or concerns and advocate for or contribute to the improvement of the local, regional, or global community.

2538 Studio Art I: Drawing, Painting, and Design Foundations: (Freshman-Senior) In this class students develop an understanding of the elements of art: line, shape, color, value, form, texture, and space, as the fundamental building blocks for creating a work of art. Students focus on applying the elements of art in a wide variety of artistic challenges by engaging in sketchbook activities and creating works of art. These creative exercises support a working knowledge of each element and allow students to explore a variety of mediums and art forms including drawing, painting, and collage. Students complete the class with a portfolio of approximately four to five works of art. This hands-on art class is designed to benefit the beginning art student as well as challenge the advanced student. Completion of this class prepares students with a foundation of skill and vocabulary to proceed into any upper level art class.

Prerequisite: None

1 semester

½ credit

2539 Studio Art II: Drawing: (Freshman-Senior) Students in this class focus on building basic skills and techniques for drawing from direct observation while exploring a variety of drawing media including graphite, charcoal, chalk pastel, and colored pencil. Students continue to develop skills and concepts pertaining to the elements of art learned in Studio Art I, while introducing the principles of design: balance, contrast, emphasis, movement, pattern and unity. Drawing assignments include subject matter such as still-life, portraiture and mixed media abstraction. Students complete the class with a portfolio of approximately four finished works demonstrating a deeper understanding of content, concept, and composition. Class critiques, discussions, and art analysis are designed to build vocabulary and enrich students' understanding of drawing. Completion of this class prepares students with the skills and confidence needed for taking Studio Art III: Painting.

Prerequisite: Studio Art I

1 semester

½ credit

2541 Studio Art III: Painting: (Sophomore-Senior) Students in this class develop a foundation in the practices and materials associated with painting. Students explore a variety of painting mediums including watercolor, acrylic, and oil paint. Working from a variety of sources, students develop an understanding of formal concerns and techniques in paint manipulation to produce strong works of art. This class explores various approaches to painting from realism to abstraction while investigating both historical and contemporary artists and art movements. Students continue to build on skills developed in Studio Art I and II and work on developing a strong portfolio of work. Completion of this class gives students the experience and technical skills needed to prepare them for Studio Art IV: Mixed Media Painting.

Prerequisite: Studio Art II

1 semester

½ credit

2542 Studio Art IV: Mixed Media Painting: (Sophomore-Senior) In the first quarter of this class, students are introduced to advanced painting techniques and non-traditional mixed media processes. Students learn to use Adobe Photoshop as a method for generating ideas and developing sources of inspiration for their paintings. In the second quarter of this class, students focus on developing a body of three works of art with a centralized concept while focusing on developing a personal artistic style and voice.

Various stylistic approaches may be explored from realism to abstraction along with a study of historical and contemporary artists and art movements associated with painting. Completion of this class gives students experience and skills that prepare them for AP Studio Art.

Prerequisite: Studio Art III

1 semester

$\frac{1}{2}$ credit

AP Studio Art: (Senior) This class is designed for highly-motivated students who are committed to the serious study of art. Advanced Placement work involves significantly more time than the other art classes. Therefore, the program is not intended for the casually-interested art student. This course reflects three major concerns: 1) Quality: Five actual works that best demonstrate the student's understanding of and engagement with design; 2) Concentration: 12 works describing an in-depth exploration of a particular design concern; and 3) Breadth: A variety of 12 works demonstrating the student's understanding of the principles of design. A digital slide portfolio (24 images of the student's work) and five original pieces are submitted to the College Board for evaluation.

Students in AP Studio Art will select one of the following portfolios during the first quarter of the school year.

2603 AP Studio Art: 2-D Design

2604 AP Studio Art: 3-D Design

2605 AP Studio Art: Drawing

Prerequisites: The equivalent of 2 credits of art courses and Departmental Approval

2 semesters

1 credit

2543 Sculpture: (Freshman-Senior) In this class, students will learn the art of sculpture and installation as they work with a variety of sculptural media and learn to manipulate three-dimensional forms in space. Students will develop creative problem solving skills through both additive and subtractive sculptural methods as they create their own installations, assemblages and wire sculptures. Through hands on projects, participation in class discussions, critiques, and analysis of three-dimensional work students will develop vocabulary and critical thinking skills pertaining to three-dimensional art and design.

Prerequisite: None

1 semester

$\frac{1}{2}$ credit

2549 Fused Glass: (Junior-Senior) In this class students explore the ancient art form of fused glass. Students learn the proper process involved in stacking, or layering thin sheets of colored glass, to create their own artistic designs as they develop patterns or simple images. Students may choose to incorporate glass frits and liquid glass to enhance their designs. The stacked glass design is then fused by placing it inside an electric kiln and heating it until the design is fused into one piece. With this process, students may choose to create non-functional works of art or functional plates, bowls, and tiles. Students also learn to make glass beads using a propane torch and glass rods and then experiment with incorporating the beads into jewelry. Students will investigate the historical context and origin of this art form and discover how various cultures have embraced and defined the art of fused glass.

Prerequisite: None

1 semester

$\frac{1}{2}$ credit

2575 The Art of Papermaking and Bookbinding: (Junior- Senior) In this class, students explore the art and craft of handmade paper. Artistic applications of handmade paper will be explored in various ways including constructing both utilitarian and artistic books, creating a unique watermark, and using handmade paper as a sculptural method by designing lightweight, sculptural installations. Students learn about papermaking throughout history and how this ancient technique can be applied to modern day art forms. Students also learn about the elements of art and the principals of design with special emphasis in color and unity.

Prerequisite: None

1 semester

$\frac{1}{2}$ credit

2583 Screen Printing: (Freshman-Senior) In this hands-on studio art class, students learn the process of screen printing, also known as the fine art of serigraphy. Students learn how to squeegee ink through stencil like screens to create beautiful works of art in multiple. The use of color, among other elements of design, is a hallmark of this process. Both hand-drawn and photographic imagery may be used as sources for creating these prints as students exercise creativity and broaden their art portfolio. Through demonstrations, lectures, and hands on assignments, students learn tools, techniques, and vocabulary associated with screen printing, serigraphs, and the rich history of this process.

Prerequisite: None

1 semester

½ credit

2584 Relief & Engraving: (Freshman-Senior) In this hands-on studio art class, students learn two methods of printmaking — relief and engraving. Students learn how to carve a block and engrave a plate as they use a printing press to transform their own creative designs, drawings, and photographs into beautiful works of art, in multiple. The use of line, shape, and value, among other elements of design, are hallmarks of this process. Through demonstrations, lectures, and hands on assignments, students learn tools, techniques, and vocabulary associated with printmaking as they exercise creativity and broaden their portfolio. Students also learn about the contemporary use of relief and engraving, and its rich history.

Prerequisite: None

1 semester

½ credit

2550 Ceramic Basics I: (Freshman-Senior) In this introductory class in the art of clay, students learn basic hand-building techniques in both additive and subtractive processes using the coil, pinch, and slab method of constructing to create a variety of functional and nonfunctional sculptures, objects, and vessels. Students are also introduced to the potter's wheel and learn techniques for throwing an assortment of functional and sculptural forms. Through demonstrations and hands on assignments, students explore various methods of glazing and firing their work while learning the history of this ancient art form.

Prerequisite: None

1 semester

½ credit

2551 Ceramic Basics II: (Freshman-Senior) In this class students build and refine the throwing and hand-building skills learned in Ceramics I. Through demonstrations and hands-on assignments, students experiment with various methods of glazing and firing their work as they continue their study the historical development of ceramics.

Prerequisite: Ceramic Basics I

1 semester

½ credit

2552 Ceramics III: (Sophomore-Senior) In this class, students will build upon the basic skills learned in Ceramic Basics I and II. Students continue to construct more complex slab-building projects, further develop their skills in throwing on the potter's wheel, and experiment with making small glaze test batches. Students may also experiment with Raku firing. Students glaze and fire their work and continue their study of the historical development of ceramics.

Prerequisite: Ceramic Basics II

1 semester

½ credit

2553 Ceramics IV: (Junior-Senior) Students in this class continue to refine their skills on the potter's wheel with the creation of more complicated forms that can be combined with hand-building techniques using the extruder and slab roller. Through self-directed projects, students develop a body of work that expresses their own artistic voice and style. Students study contemporary trends in ceramics while also learning to develop simple glaze calculations on the computer, assist in the loading and firing of the work, explore the Raku firing process at a more advanced level, and participate in art exhibitions.

Prerequisite: Ceramics III

1 semester

½ credit

2564 Digital Photography I: (Sophomore-Senior) In this class students learn to see photographically as they exercise their creativity through an exploration of the basic tools, techniques, and aesthetics of digital photography. Students learn to creatively use camera controls, exposure, and Adobe Photoshop for artistic

purposes. Through a combination of lectures, demonstrations, assignments, and critiques, students learn about photography's rich heritage, how to use their camera to its fullest potential, the elements and principals of design, a digital workflow for archiving and imaging in Photoshop, and the printing and presentation of digital prints. Students are required to provide their own digital camera with full manual control over shutter and aperture. This will be evident on the camera by letters on a dial: P,S,A,M (Nikon), or P,Tv,Av,M (Canon) or a comparable variation.

Prerequisite: None (Studio Art I recommended but not required)

2 semesters

1 credit

2565 Digital Photography II: (Junior-Senior) In this class, students build upon the knowledge and skills learned in Digital Photo I while exploring advanced photographic techniques and equipment in a variety of shooting situations. Students work to develop a personal artistic vision and style. Students also continue to develop technical skills in Adobe Photoshop and participate in competitive photo exhibitions. Students are required to provide their own digital single-lens-reflex camera.

Prerequisite: Digital Photography I

2 semesters

1 credit

2570 Film Making I: (Freshman-Senior) In this class, students learn the basics of moviemaking by producing, directing, shooting, and editing their own short film. Students begin by developing an individual story concept, planning the project from concept to screenplay, scheduling and shooting the script on HD video, and learning to edit the visual story using a professional level non-linear editing program. In addition to learning editing on Adobe Premiere Pro software, students learn camera operation, lighting for movies, and sound recording techniques using the school's video equipment. Various story genres are explored including scripted movies, documentaries, music videos, and more.

Prerequisite: Basic computer skills

2 semesters

1 credit

2572 Film Making II: (Sophomore-Senior) Students who have successfully completed Film Making I (and with permission of the instructor) may continue their film making studies in an independent study format with the goal of producing a collected body of their film work or "reel". Advanced techniques in video shooting, lighting and editing are explored as well as special effects in Adobe After Effects software. This is a self-directed and project-based film production class for the motivated student who is interested in producing independent films or is planning study film further in college.

Prerequisite: Film Making I (*3 students maximum*)

2 semesters

1 credit

World Languages

The World Languages Department emphasizes communication, connections, culture and community as articulated in the National Standards for the Teaching of Foreign Language. It recognizes the importance of becoming proficient and to work towards the highest levels of performance define by the American Council for Teachers of Foreign Languages. Fluency is a key aspect in the daily teaching while practicing the three modes of communication: interpersonal, interpretive and presentational. The modes of communication are constantly assessed in the rubrics, as well as the performance descriptors grouped in the domains of comprehensibility, comprehension, language control, vocabulary, cultural awareness, and communication strategies. The departmental goals are the acquisition of communicative proficiencies in the second language of study, and to instill in our students the love of languages while rearing them to be college ready. The program provides an interdisciplinary curriculum intended to reinforce and enrich the student's exposure to other disciplines. The cultural component is emphasized at all levels, this promotes a deeper understanding, appreciation and acceptance of other cultures. In keeping with the school's mission statement, the language program seeks to inspire life-long learners prepared to live in a "global society".

Note: Any student interested in double tracking needs to contact the World Language Department Chair for the approval process.

Arabic

1011 Arabic I: This course is an introduction to Modern Standard Arabic (MSA), a modernized version of the literary Arabic. Students are introduced to spoke Arabic from Middle East and West. The class will give students an overview of Arabic language and culture, its alphabet and numbering system. Pronunciation and basic grammatical structures will be covered. This course will develop the necessary skills to acquire spoken and written communication skills at the Novice-Low proficiency level. It will also cover Arabic culture and traditions in order to familiarize students with the history and foundation of spoken Arabic. No previous study of Arabic is required.

Prerequisite: None

2 semesters

1 credit

1012 Arabic II: This course continues to build on the language skills learned in Arabic I. It is designed to build and develop a stronger understanding of the Arabic language and its culture. It will further enhance the student's ability to communicate in Arabic in the written and spoken forms. Students are expected to be at a Novice-Mid proficiency level. This course will work on improving the student's confidence in reading and interpreting Arabic text and communicating with others.

Prerequisite: Arabic I

2 semesters

1 credit

1013 Arabic III: This third year course will continue expanding vocabulary, adding more grammatical structures, and exploring the Arabic culture and heritage. It will further strengthen overall language proficiency and cultural knowledge through more advanced vocabulary and structures. Students will develop presentational skills in compositions and presentations of social issues. This course addresses all four communication skills: reading, speaking, listening, and writing. Arabic III will enhance the student's ability to communicate in Arabic at a Novice-High level of performance.

Prerequisite: Arabic II

2 semesters

1 credit

1014 Arabic IV: This fourth-year course is taught to develop an Intermediate-Low level of proficiency. Through the use of authentic sources from Arabic television, newspapers, movies, and internet, students learn more complex structures and vocabulary to achieve proficiency in the listening, speaking, reading, and writing language skills. Students will learn Arabic history, geography, traditions and aspects of modern life to develop a deeper understanding of Arabic people and it's culture.

Prerequisite: Arabic III

2 semesters

1 credit

Chinese

1111 Mandarin Chinese I: In this introductory course, students will learn pronunciation rules (pin yin) and tones, simple characters, vocabulary, and basic grammatical structures in order to develop spoken and written communication skills at beginners or Novice-Low level of proficiency. The study of Chinese culture will provide the opportunity to develop an appreciation for Chinese traditions and the Chinese people. No previous background in Chinese is required.

Prerequisite: None

2 semesters

1 credit

1211 Mandarin Chinese II: This course continues to build on the listening, speaking, reading, and writing language skills learned in Chinese I. Grammatical constructions will be reinforced with increasing sophistication in terms of style and usage. While many of the linguistic tasks will be similar to those of first-year Chinese, the language level required will be more advanced at a Novice-Mid level of proficiency. Students will be required to comprehend both spoken and written Chinese. Practice of the four language skills: reading, speaking, listening, and writing through more interpersonal communicative activities will be conducted on a variety of topics.

Prerequisite: Mandarin Chinese I

2 semesters

1 credit

1212 Mandarin Chinese II Honors: This course introduces new grammatical concepts and keeps building on the thematic vocabulary units introduced in level I. It continues to build on the language skills learned in Chinese I in order to advance to a Novice-High level of proficiency. While the course will help them to advance in the three communication modes, this class focuses more in the presentational mode of communication. Students are expected to move at a fast pace and work with authentic materials to make the cultural connections as they work more on integrated performance assessments. Participation in the annual Chinese Proficiency Test (HSK) and/or special projects is required.

Prerequisites: Mandarin Chinese I and Departmental Approval

2 semesters

1 credit

1311 Mandarin Chinese III: This course is designed to improve the development of the listening, speaking, reading and writing skills. The main objective of the course is to provide the student with enough vocabulary and grammatical structures so that she can communicate in the target language. The focus is to strengthen the overall language proficiency and cultural knowledge to advance to a Novice-High level of performance. Activities at the third-year level will emphasize interpersonal communication focusing on cultural topics and authentic passages in formal form of written Chinese. The presentational mode of communication will also be developed via essays, reports, and practical correspondence.

Prerequisite: Mandarin Chinese II

2 semesters

1 credit

1312 Mandarin Chinese III Honors: This course accomplishes the goals of the third year of study with an emphasis in the preparation to advance at an Intermediate-Mid level of proficiency. Particular emphasis is placed on the thematic approach of the AP World Language and Culture courses as well as on Chinese history, culture, geography, literature and art. Students are expected to communicate using Chinese most of the time. In this course, students write both formally and creatively in Chinese. Students may also anticipate a variety of short presentations, selected reading and oral exams throughout the course. Participation in the annual Chinese Proficiency Test (HSK) and/or special projects is required.

Prerequisites: Mandarin Chinese II-H and Departmental Approval

2 semesters

1 credit

1411 Mandarin Chinese IV Honors: This fourth-year course students are working towards Intermediate-High level of proficiency. Through the use of authentic sources from Chinese television, newspapers, movies, and internet, students learn advanced vocabulary and grammatical structures needed to achieve a higher level of proficiency in the listening, speaking, reading, and writing language skills. A variety of topics on Chinese history, geography, literature, traditions, and aspects of modern life will be addressed. The course also focuses on developing informal speaking and writing skills necessary to write e-mails and application letters, read short stories and advertisements, and exchange currency. With extra intensive language practice, some students may choose to take the AP Chinese Language and Culture test. Participation in the annual Chinese Proficiency Test (HSK) and/or special projects is required.

Prerequisites: Mandarin Chinese III and Departmental Approval

2 semesters

1 credit

French

1121 French I: This course introduces students to the French language and culture while developing the communication skills of listening, speaking, reading, and writing. Interpretative communication, acquisition of vocabulary, and mastery of basic grammar concepts are emphasized. French-speaking cultures around the world and their traditions are introduced. Students are working towards Novice-Low proficiency as defined by the American Council for Teachers of Foreign Languages. Participation in the annual National French Examination is required. No previous background in French is required.

Prerequisite: None

2 semesters

1 credit

1222 French II: This course develops interpretive, interpersonal, and presentational communication in the French language within the context of exploring French and francophone cultures. It continues to build on the listening, speaking, reading and writing language skills learned in French I while building mastery of the grammatical structures needed for communication. Most of the class is conducted in French and students are expected to communicate using the target language. Students are working towards Novice-Mid proficiency as defined by the American Council for Teachers of Foreign Languages. Participation in the annual National French Examination is recommended.

Prerequisite: French I

2 semesters

1 credit

1221 French II Honors: This course develops interpretive, interpersonal, and presentational communication in the French language within the context of exploring French and francophone cultures. It continues to build on the listening, speaking, reading, and writing language skills learned in French I while building mastery of the grammatical structures needed for communication. Students are expected to communicate using the French most of the time. Students will work with authentic materials to make cultural connections in integrated performance assessments. Students are working towards Novice-High level of proficiency. Participation in the annual National French Examination is required. Successful completion of this course will prepare students for level three Honors French course.

Prerequisites: French I and Departmental Approval

2 semesters

1 credit

1323 French III: This course develops interpretive, interpersonal and presentational communication in the French language within the context of exploring French and francophone cultures. It continues to build on the listening, speaking, reading and writing language skills learned in French II while building mastery of the grammatical structures needed for communication. The class is conducted in French and students are expected to communicate using the target language. Students will work with authentic materials to make cultural connections in integrated performance assessments. Students are working towards Novice-High level of proficiency. Participation in the annual National French Examination is recommended.

Prerequisite: French II

2 semesters

1 credit

1322 French III Honors: This course continues to develop listening, speaking, reading and writing skills in the French language while exploring issues in contemporary French and francophone cultures with an emphasis on preparation for the AP French Language class. Particular emphasis is placed on the thematic approach of AP World Language and Culture courses at an Intermediate-Low level of proficiency. The course is conducted in French and students are expected to communicate using the target language. Participation in the annual National French Examination is required.

Prerequisites: French II-H and Departmental Approval
2 semesters *1 credit*

1424 French IV: This course continues developing the skills needed to communicate effectively in French. Students will listen to, watch, read, discuss and critique traditional and contemporary cultural products such as music, film, news media and literature. Through daily discussions of the literary and cultural content, students gain confidence and competence in interpersonal communication. Students execute projects designed to display their improving communication skills and understanding of cultural topics covered in the course. Students are working towards Intermediate-Low proficiency as defined by the American Council for Teachers of Foreign Languages.

Prerequisite: French III
2 semesters

1 credit

1426 AP French Language and Culture: This course continues to develop the student's ability to understand and accurately communicate in written and spoken French. Course content includes literary excerpts, written and audio news media, and many other authentic sources from global francophone cultures, as well as review of the vocabulary and grammatical structures needed to communicate at a high level. This fast-paced course includes extensive practice in the organization and writing of compositions, and proficiency in extemporaneous speaking. Students should keep in mind that the primary focus is preparation for the AP exam and that the content is equivalent to college level work. They are encouraged to take the AP exam and are required to participate in the National French Examination. Students are working towards Intermediate-Mid proficiency level as defined by the American Council for Teachers of Foreign Languages.

Prerequisites: Pre-AP French and Departmental Approval
2 semesters

1 credit

Spanish

1161 Spanish I: This course introductory course for non-heritage and non-native speakers. It introduces students to the Spanish language and culture while developing the communication skills of listening, speaking, writing, and reading. Interpersonal communication, acquisition of vocabulary and mastery of basic grammar concepts are emphasized. This course is conducted mainly in Spanish. English is used when it is necessary to explain difficult concepts that the student cannot yet understand in the target language. Students are working towards Novice-Low level proficiency as defined by the American Council for Teachers of Foreign Languages. During the third quarter, students take part in the annual National Spanish Exam. This course is a level one introductory course for students with no previous background; for all other student with Spanish background, a placement test is required

Prerequisite: None-No previous Spanish background
2 semesters

1 credit

1165 Spanish I Honors: Designed for students with some experience at the Novice level of Spanish proficiency. This class is a fast paced review of the basic skills of language: listening, speaking, writing, and reading. This course is designed for highly motivated students who are interested in pursuing the Honors sequence. The class is conducted mainly in Spanish. English is used when absolutely necessary to explain difficult concepts that the student cannot understand in the target language. Review and broadening of vocabulary and the mastery of basic grammar structures are emphasized. Students are working towards Novice-Mid proficiency level as defined by the American Council for Teachers of Foreign Languages. During the third quarter, students take part in the annual National Spanish Exam. This course is for non-native speakers; all heritage Spanish speakers must take the placement test in the spring.

Prerequisite: Departmental Approval

2 Semesters

1 credit

1262 Spanish II: This course continues to build the four language skills learned in Spanish I. It is designed to practice the interpretative, interpersonal and presentational modes of communication at a Novice-Mid proficiency level. It introduces major and new grammatical structures of the language including the 3 verb moods: indicative, imperative and subjunctive. It also continues developing listening, oral and written skills in the Spanish language. The class is conducted in Spanish and students are expected to communicate using the target language. Practice of language skills through interpersonal communicative activities will be conducted on a variety of topics with emphasis on the Spanish-speaking countries and cultures.

Prerequisite: Spanish I

2 semesters

1 credit

1261 Spanish II Honors: This course introduces more complex grammatical structures and keeps building on the thematic vocabulary units introduced in level 1. Students work on integrated performance assessments in order to develop their communication in the three modes. Authentic and cultural driven materials are presented to students so that they will be able to develop their communication skills while applying the content studied in class. While the course will help them to advance in their communication skills, this class focuses particularly in interpersonal communication. The class is conducted in Spanish and students are expected to communicate using the target language. Students are working towards Novice-High level of proficiency as defined by the American Council for Teachers of Foreign Languages. Participation in the annual National Spanish Examination and/or special projects is required.

Prerequisites: Spanish I and Departmental Approval

2 semesters

1 credit

1363 Spanish III: This course is designed to improve the development the listening, speaking, reading and writing skills. The main objective of the course is to provide students with enough pertinent vocabulary and grammatical structures so that she can communicate in the interpretive, interpersonal, and presentational modes. The focus is to strengthen the overall language proficiency and cultural knowledge to advance to an Intermediate-Low level of proficiency. Spanish III will emphasize interpersonal communication using authentic sources. Students develop higher level of reading and writing skills and gain the confidence to use them in real situations. The class is conducted mostly in Spanish and students are expected to communicate using the target language.

Prerequisite: Spanish II

2 semesters

1 credit

1361 Spanish III Honors: This course continues to develop listening, speaking, reading, and writing skills in the Spanish language. It focuses on communication strategies with a particular emphasis on the AP World Languages thematic areas of families and communities, science and technology, beauty and aesthetics, contemporary life, global challenges, and personal and public identities. By the end of the year, students should be able to communicate with fluency, using new vocabulary and grammatical structures at an Intermediate-low level of proficiency. The class is conducted in Spanish and students are expected to use it at all times. Emphasis is placed in the history, art, culture and geography of Latin America and Spain, students are introduced to the major artists and authors of the Hispanic world . Participation in the annual National Spanish Examination and/or special projects is required.

Prerequisites: Spanish II Honors or Departmental Approval

2 semesters

1 credit

1464 Spanish IV: This course is designed to improve the development of listening, speaking, reading and writing skills, with a conversational approach. The program aims to foster active participation of the students in the language and develop proficiency in communication. Students apply all grammar concepts previously learned that are essential to communicate effectively in every day real-life situations, and to discuss current events. The main objective of this course is to provide the student with enough practice so that she can communicate using the three modes: presentational, interpersonal and interpretive. Students review grammar concepts and structures for proficient communication. Spanish IV will prepare the students for the SAT subject Spanish test. The first semester focuses on listening and speaking skills, and the second on reading and writing skills. The class is conducted in Spanish and students are expected to communicate using the target language. Students are working towards Intermediate-Mid proficiency as defined by the American Council for Teachers of Foreign Languages.

Prerequisite: Spanish III

2 semesters

1 credit

1466 AP Spanish Language and Culture: This honors course is equivalent to a third-year college course in advanced Spanish composition and conversation. Several integrated performance assessments will be completed throughout the school year. This class has three modes of communication: interpersonal, interpretive and presentational; and uses the five language performance descriptors of comprehensibility, comprehension, language control, vocabulary, cultural awareness. The AP Spanish class emphasizes the use of Spanish for active communication; it encompasses aural/oral skills, reading comprehension, grammar, and composition. The course is structured around the new six AP themes which are presented through authentic materials from the Spanish and Latin American world. Students are working towards Intermediate-High proficiency as defined by the American Council for Teachers of Foreign Languages. Students are encouraged to take the AP exam and will be required to take the annual National Spanish Exam.

Prerequisites: Pre-AP Spanish and Departmental Approval

2 semesters

1 credit

1566 AP Spanish Literature and Culture: This course is designated to provide students with a learning experience equivalent to that of an introductory college course in Spanish literature. The course introduces the Peninsular Spanish, Latin American, and U.S. Hispanic literature. The class provides ample opportunities to further develop the student's proficiencies across a full range of language skills. It gives special attention to critical reading and analytical writing and encourages students to reflect on the many voices and cultures of the Spanish literature. Emphasis is placed on the study of literature through global, historical and contemporary cultural contexts. Students are encouraged to make interdisciplinary connections and explore linguistic and cultural comparisons. The course aims to help students to read with critical, historical and literary sensitivity. It exposes students to the methods of literary analysis, critical interpretation and evaluation. Students are working towards Advanced level of proficiency as defined by the American Council for Teachers of Foreign Languages.

Prerequisites: AP Spanish Language

2 semesters

1 credit

and applications, first order linear differential equations, inverse trigonometric functions, transcendental functions, infinite series, Taylor polynomials, vectors, parametrically defined functions, and polar coordinates. This student-centered course will feature discussions, reflections, and projects that will help students to master the course material in an engaging way. Students enrolled in this course will be thoroughly prepared to take the AP exam in the spring.

Prerequisite: Pre-calculus or Calculus course covering natural logarithms, series/sequences, parametric/polar functions, vectors, and limits, Departmental Approval, and Personal Counseling Approval.

2 Semesters

1 credit

3903OLSG Multivariable Calculus and Differential Equations: (Senior) After covering some advanced topics in the calculus of a single variable, Multivariable Calculus and Differential Equations explores topics that are studied in a typical college-level Calculus III course including vectors and vector-valued functions, curves and surfaces in space, partial derivatives and gradients, multiple integration, and line and surface integrals. This course's final unit provides and introduction to differential equations, including exact first-order equations, second order homogeneous and nonhomogeneous linear equation, and series solutions. Built on a foundation of sophisticated problem solving, the course also features discussions, projects, and exploratory activities that help students develop their advanced math skills in a collaborative and creative way.

Prerequisite: AP Calculus BC, Departmental Approval, and Personal Counseling Approval

2 Semesters

1 credit

Science

4900OLSG Forensic Science: (Sophomore-Senior) Forensic Science examines the application of science to the criminal and civil laws enforced by the criminal justice system. Students explore the science of criminology by using a combination of science disciplines, including biology, chemistry, physics, geology, and computer technology. Students learn to differentiate between actual techniques and some of those portrayed on popular television shows and also evaluate current procedures used by real crime labs to understand some of the limitations of the law, police, and forensics science. Throughout the year, students examine scientific techniques behind the analysis of physical and chemical evidence, toxicology, DNA fingerprinting, fire and explosives, glass, bones, handwriting and document analysis, and other relevant pieces of evidence. Simulated crime and accident scenes are investigated, and as evidence is collected and analyzed, students will develop observation skills and deductive reasoning. The course also includes a study of the variety of careers in forensic science. This exploration will be completed through a mixture of laboratory exercises, class discussions and projects, online simulations and games, and analysis of representation of forensic science in the media.

Prerequisite: One year of high school level science and Personal Counseling Approval

2 Semesters

1 credit

4910OLSG Engineering, Design and Robotics (formerly Introduction to Engineering): (Sophomore-Senior) Engineers create things. They are the designers of the modern world. The works they create drive society forward. This course introduces students to many areas of engineering: civil/structural, chemical, mechanical, electrical, and biomedical engineering. In addition, students learn the engineering design process used by practicing engineers. Specific topics in this course will include structural integrity with egg contraptions, chair and bridge building projects, engineering ethics, heat transfer and home heating, energy transmission, and alternative energy research with specific case studies in solar and fuel cell cars. This course will assist students to develop an array of specific skills including: applying the engineering design process to a specific problem; working effectively and collaboratively with other members of the class; demonstrating originality and inventiveness in your work; reflecting critically in order to improve creative efforts in problem solving; and viewing success as a cyclical process. Through active problem solving in the context of specific case studies, this course addresses concepts and skills relevant to a career in engineering. A culminating project requires students to apply much of what they have learned in the course.

Prerequisite: One year of high school level science and Personal Counseling Approval

2 Semesters

1 credit

4918OLSG Neuroscience: (Sophomore-Senior) A spongy, three pound mass of tissue — the brain — controls every aspect of the body, ranging from circulation and appetite to emotion and memory. Because the brain shapes our thoughts, beliefs, hopes, dreams, and imaginations, the brain is what makes us human. By the end of the first

semester, students understand the structure of the brain and how the brain senses, thinks, behaves, and creates memories for learning and language, as well as how the environment (stress, diet, exercise and time) impacts the brain. We also explore brain diseases, disorders, and treatments. Armed with this solid foundation in neuroscience, students spend the second semester learning to think like doctors. In this project-based class, students engage in individual research projects and seminar-style problem solving. Utilizing neuroscience as a foundation to explore any human biology topic, students will be guided through a self-designed, long-term research project. This course is designed for students who are considering college majors in a medical or health related field, such as medicine, psychology, occupational therapy, neural or biomedical engineering, public health, lab neurobiology research, radiology or imaging, speech-language pathology, or kinesiology.

Prerequisite: 1 year of high school level science and Personal Counseling Approval

2 semesters

1 credit

4922OLSG AP Environmental Science: (Junior-Senior) AP Environmental Science provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Humans have made an enormous impact on the Earth, particularly in the past few decades, with our advances in technology, rapid population growth, and excessive energy use. Our own survival depends on developing practices that will achieve sustainable systems that are both economical and ecologically friendly. Therefore, much of the course will consist of ethical discussions and collaborative projects designed to probe how different cultures and social structures affect the environment, and to explore potential solutions to today's environmental issues. Students in AP Environmental Science engage collaboratively to investigate the real-world problems that face our environment today such as biodiversity loss, energy conservation, and climate change. They study not only our environment but also work collaboratively to understand our role in it. Students taking this course are well prepared for the AP Environmental Science Exam in May.

Prerequisite: Algebra I and two years of high school laboratory science and Personal Counseling Approval

2 Semesters

1 credit

4934OLSG AP Physics I: (Junior-Senior) AP Physics 1 is an algebra-trigonometry based, introductory college level physics course. The course is based on first semester introductory college physics and is designed for those planning to enter into life science or pre-med programs in college. The goal of the course is to develop in the student the understanding of physics through inquiry-based investigations. Students will explore principles of Newtonian mechanics, work, energy, power, waves, sound, and simple circuits. Additional supplemental topics will be covered that will build understanding of the primary College Board curriculum. Developing the ability to reason qualitatively and quantitatively is a principal focus. Those skills will be developed through the use of modeling, graphing, diagramming, unit analysis, symbolic algebra, and data analysis. Laboratory exercises will be used to enhance the investigation of each topic. This course is intended to prepare students for the College Board AP[®] Physics 1 Exam.

Prerequisite: Algebra II; Personal Counseling Approval

2 semesters

1 credit

4915OLSG Marine Science Co-Ed: (Senior) Marine Science introduces students to oceanography, and aid them through a review of earth science concepts, investigation of physical and chemical ocean systems, and the exploration of marine organisms. Major topics of study will include the anatomy and behavior of marine organisms, the ecology of marine habitats, and the role of climate change in both marine and global systems. Students develop a solid knowledge base and understanding of marine ecological systems; integrate that knowledge base into practical applications of science that affect students' world and futures; and perhaps most importantly, foster critical thinking skills and a keen understanding of the scientific process necessary to become well-informed and scientifically aware citizens, whether students' futures directly involve marine science or not. Coursework includes virtual and at-home laboratory exercises; scientific literature analysis; reading and video assignments; and research using online journals and current oceanographic data. This work will be largely collaborative as students engage with the teacher and with their classmates on projects and labs. There is a significant emphasis on the application of creativity and innovation in dealing with environmental challenges.

Prerequisite: Biology I and Personal Counseling Approval

2 Semesters

1 credit

Social Studies

6910OLSG AP Human Geography (Co-Ed): (Sophomore-Senior) AP Human Geography introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. Students analyze the interplay between geography and humanity while they investigate topics such as population growth and migration; cultural patterns and processes; political organization of space; agriculture; industrialization and economic development; cities and urban land use; and the environmental impact of human actions. They learn about the methods and tools geographers use in their science and practice, which help geographers answer such diverse questions as: What do clustering patterns of voting districts in a state tell one about the population? Why do most North Americans practice Christianity? And, what has changed in the last ten years that has caused the oil industry to not be able to keep up with demand? The course includes discussions, collaborative projects, free-response questions and traditional tests and quizzes. Students taking this course are well prepared for the AP Human Geography Exam in May

Prerequisite: 1 year of Social Studies, Departmental Approval and Personal Counseling Approval

2 Semesters

1 elective credit

6903OLSG AP Psychology: (Junior-Senior) AP Psychology and Psychology introduces students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. In this course, students are presented with the psychological facts, principles and phenomena contained within the major branches of psychology. The course includes a balanced examination of: Biological Bases of Behavior, Sensation and Perception, States of Consciousness, Learning, Cognition, Motivation and Emotion, Developmental Psychology, Personality, Testing and Individual Differences, Abnormal Psychology, Treatment of Psychological Disorders and Social Psychology. Students develop a thorough understanding of the many subfields contained within psychology and the connections between them. In addition, students will also be exposed to the history, methodology and ethical practices associated with psychological research. Upon completion of this course students will recognize the significance of psychology and its practical applications upon the world around them. Students engage collaboratively with their classmates in projects and real-world discussions. Students may select the AP or non AP track in this course. AP students are expected to delve deeper into the topics, take AP-style assessments, and prepare for the AP exam in the spring. Non-AP students demonstrate mastery through projects and alternative assessments.

Prerequisite: Departmental Approval and Personal Counseling Approval

2 Semesters

1 elective credit

6906OLSG AP US Government and Politics and AP Comparative Government and Politics: (Junior-Senior) This yearlong course that provides students with an in-depth understanding of the American government as well as various political systems around the world by covering two AP curricula. The fall semester covers AP US Government and Politics. Students learn how the American government was founded, how the electoral process works, who votes and why, and how the various branches function. Special attention is given to how the different agencies within the government interact, and how these agencies and their policies affect the daily lives of Americans. The spring semester covers AP Comparative Government and Politics, which takes an in-depth look at six different states: Iran, Nigeria, China, Russia, Mexico, and Great Britain. In addition to learning how to conduct proper comparative studies, students analyze how these different states function, both as independent states and as part of the global community. Upon completion of this course, students have a thorough understanding of some of the major political systems across the world, which will make it easier to comprehend how our world evolves and functions. Students will be prepared for both AP exams.

Prerequisite: Departmental Approval and Personal Counseling Approval

Co-requisite: US History

2 Semesters

1 credit

6905OLSG AP Macroeconomics: (Junior-Senior) AP Macroeconomics introduces students to major economic issues such as basic market analysis, the causes of the cycle of economic growth and recession, the problems of inflation and unemployment, the causes and consequences of federal budget deficits, and the causes and effects of international trade imbalances and currency fluctuations. Students analyze the impact of fiscal and monetary policies as well as the debates surrounding the implementation of each. This course involves extensive reading, problem-solving exercises, online discussions, and research and writing about contemporary macroeconomic

issues. Multiple modalities are employed for content presentation so as to encourage personalization; assessment evaluates each student's ability to utilize skill sets related to economic decision making. Strong reading, algebra, and analytical skills are necessary for success, as is strong motivation. AP Macroeconomics prepares students to become informed and thoughtful and will thoroughly prepare students to take the Advanced Placement exam in the spring. AP Macroeconomics is recommended for juniors and seniors.

Prerequisite: Algebra II, Departmental Approval, and Personal Counseling Approval
2 Semesters *1 credit*

6904OLSG AP Microeconomics: (Junior-Senior) AP Microeconomics is a course that examines how individuals (such as consumers and producers) make decisions and how these decisions affect our everyday lives. Topics discussed include the forces of supply and demand, cost of production, consumer choice, and behavioral economics, amongst others. Throughout the course, students examine various models that are used to conceptualize how our economy operates and explore the role the government plays in a given economy. As an online, college-level course, significant emphasis is placed on independent work and individual accountability. Students complete collaborative projects, group discussions, problem sets, quizzes, and tests. The curriculum is developed to prepare students for the AP Microeconomics examination in May. Strong mathematical reasoning skills and an interest in finance, business or government aid students in this course.

Prerequisite: Algebra II, Departmental Approval, and Personal Counseling Approval
2 Semesters *1 elective credit*

6915OLSG Civics, Culture, and Intersectionality (Co-Ed): (Sophomore-Senior) What are the rights and duties of each citizen? How does culture influence social and political beliefs? This course builds competency around the intersections of civics and culture, and gives students the space to articulate their own beliefs. Through the lenses of civics, culture, race, class, religion, and art, we explore citizenship and justice. As we define what we believe, we uncover our own biases; explore the difference between fact and opinion; practice empathy; and learn to voice perspectives without silencing those of others. We tackle the challenges that disenfranchised the people face today, how political and historical factors have shaped extremists' responses to our challenges, the role of culture in how challenges are addressed, and what we, as responsible citizens, should do. Both the students and the teacher will provide topics for class discussions, and students develop competencies in current events analysis, research, writing, and discussion.

Prerequisite: Departmental Approval and Personal Counseling Approval
2 semesters *1 credit*

Visual Arts

2916OLSG Art History: (Sophomore-Senior) Students enrolled in Art History course examine and critically analyze major forms of artistic expression from a variety of cultures spanning 32,000 years of art. Beginning with global prehistory and ending with global contemporary art, students consider influential forces like patronage, politics, class, belief, gender, and ethnicity in their analysis of art forms. Students become active participants in the global art world, engaging with its forms and content, as they experience, research, discuss, read, and write about art, artists, art making, and responses to and interpretations of art. By investigating a specific image set of 250 works of art characterized by diverse artistic traditions from prehistory to the present, the course fosters an in-depth, holistic understanding of the history of art from a global perspective. AP students are expected to delve deeper into the topics, take AP-style assessments, and prepare for the AP exam in the spring.

Prerequisite: Personal Counseling Approval
2 Semesters *1 elective credit*

2915OLSG AP Art History: (Junior-Senior) Students enrolled in the AP History course examine and critically analyze major forms of artistic expression from a variety of cultures spanning 32,000 years of art. Beginning with global prehistory and ending with global contemporary art, students consider influential forces like patronage, politics, class, belief, gender, and ethnicity in their analysis of art forms. Students will become active participants in the global art world, engaging with its forms and content, as they experience, research, discuss, read, and write about art, artists, art making, and responses to and interpretations of art. By investigating a specific image set of 250 works of art characterized by diverse artistic traditions from prehistory to the present, the course fosters an in-depth, holistic understanding of the history of art from a global perspective.

Prerequisite: Personal Counseling Approval

2 Semesters

1 elective credit

World Language

1910OLSG Latin I Co-Ed: (Sophomore-Senior) Latin I is intended for students who have not previously studied Latin. The course develops competencies in reading and interpreting, oral expression and aural comprehension. Students learn the basic components and structures of Latin that allow them to develop basic reading strategies, which they use to build critical-thinking skills. Upon completion of this course, students have acquired proper pronunciation, essential grammar and vocabulary to be able to understand and read short passages; the ability to engage in simple verbal exchanges; and a greater knowledge of English vocabulary and grammar. Learning Latin is also about discovering connections and relationships between ancient and contemporary languages, cultures, and influential ideas. Latin I students will study Roman culture and history so they can examine the indebtedness of modern society to the Roman world, from legendary heroes to myths, gods, and politics. Students will take quizzes and have tests, but they will also write stories, sing songs, play games, and work together on short research projects to further understand how their developing knowledge of Roman culture applies to their own lives.

Prerequisite: Personal Counseling Approval

2 semesters

1 credit

1902OLSG AP Chinese Language and Culture Co-Ed: AP Chinese Language and Culture provides deeper understanding and broader application into Chinese language and culture for intermediate Chinese learners. This course focuses on applying Chinese language and cultural skills in real-world problem situations, and provides the opportunity to experience a variety of topics in Chinese history, geography, music and arts, literature, daily life, and national and global issues. Almost all of the course is taught in Chinese. This course applies a student-centered diagnostic learning approach. Authentic resources in both oral and written Chinese include recorded lectures, online discussion and debate, TV and video clips, Chinese newspaper articles, and instructions from Chinese products. Group work, one-to-one extra help, and a variety of engaging activities and experiential projects are employed in the course to meet the individual needs of students. AP students delve deep into the topics, take AP-style assessments, and prepare for the AP exam.

Prerequisite: Successful completion of Chinese III; Departmental and Personal Counseling Approval

2 Semesters

1 credit

Summer Program 2017

Ursuline's summer program fosters academic and personal growth through diverse courses and enrichment possibilities. Students can fulfill credit requirements, experience new cultures and prepare for college years and future professions. With a variety of course selections, students are offered the opportunity to explore their personal interests, unique abilities and talents. Ursuline's faculty coupled with a student's desire to learn provides ample opportunity to experience success in the summer program.

The four types of summer learning opportunities offered by Ursuline Academy are:

- Credit Courses – traditional courses for credit taught on campus in an accelerated format
- Experiential Learning Courses– unique credit courses that blend on campus learning and academic travel experiences
- Enrichment Courses – non-credit courses that prepare students for advanced coursework or careers
- Incoming Freshman Courses – non-credit courses designed to give new students a head start

Credit Courses

3631S Introduction to Computer Science: (Sophomore-Senior) This core semester course provides students with an introduction to computer architecture, networking and problem solving through programming. Using a high level programming language, students learn how to read, modify, design, debug, and test algorithms that solve problems. Programming concepts include control structures, abstraction, modularity, and object-oriented design. Emphasis is placed on critical thinking skills to solve real-world problems. Relevance of computing to the student and society will be emphasized. **Students are expected to complete their other ½ credit of Computer Science requirement in the fall of 2017.**

Prerequisite: None. 6/8-6/28; 9:00 a.m.-12:00 p.m.

\$475.00 ½ credit

5665S Women Reading, Reading Women: (Sophomores-Seniors) This elective course focuses thematically on the representation of women in literature as inscrutable, mysterious books to be interpreted and the ways in which female readers in various literary works challenge and complicate that stereotype. In addition to developing students' interpretive skills, the class also focuses on refining students' analytical writing skills. In accessible ways, students will be introduced to some of the theoretical conversations about reading and gender that they will encounter in college literature classes.

Prerequisite: None

6/8-6/28; 9:00 a.m.-12:00 p.m.

\$475.00 ½ credit

3350S Where's the Justice? Social Justice & Mathematics: (Junior-Senior) This elective course incorporates mathematics with relevant social justice themes, with the goal that students recognize the power of mathematics as an essential analytical tool to not only understand, but also change their world. The course will engage students in high-level thinking about big mathematical ideas while deepening their understanding of issues impacting their local and global communities. Themes may include: war budgets/expenses, gentrification, ethnomathematics, environment sustainability, racism, police presence, inflation, housing markets, prison systems, investments, gambling and casinos, racial profiling, population growth, civil rights, and more.

Prerequisite: Completion of Algebra II

6/8-6/28; 9:00 a.m.-12:00 p.m.

\$475.00 ½ credit

2201S Introduction to Speech: (Freshman-Sophomore) This course is designed to allow the student greater ease and clarity in expressing her thoughts and feelings in public. Primary emphasis in the class is on delivery technique and critical thought process with secondary emphasis on speech writing. The student will prepare and deliver four speeches as well as additional impromptu speeches and group presentations. Note: This is a graduation requirement that is separate from other Fine Arts requirements and must be completed prior to junior year.

Prerequisite: None

6/8-6/28; 9:00 a.m.-12:00 p.m. or 12:45-3:45 p.m.

\$475.00 ½ credit

2740S Technical Theater: (Freshman-Senior) This introductory course combines the theory of design techniques with the basics of construction and stage operations in the various elements of technical theatre. Emphasis is placed on acquiring a general working knowledge of design and operations, such as safety requirements for stage lighting, sound, and set construction. Hands-on experience is provided in set construction, props, house management, stage management and various areas of technical theatre.

Prerequisite: None

6/8-6/28; 12:45-3:45 p.m.

\$475.00

½ credit

8132S Wellness: (Freshman-Sophomore) This course is designed to guide students throughout the many dimensions of Wellness (spiritual, physical, mental, emotional, occupational, and social) and provide an atmosphere to discuss and learn about how to live a healthy and stress-free life. Students will develop skills needed to maintain an active lifestyle, learn the importance of nutrition, and discover how to find a healthy balance of all facets of Wellness. Students will also engage in building essential skills needed to maintain optimal health while developing ways to promote healthy lifestyles in our diverse society. In addition, students will complete a course in Heartsaver CPR, Embody Love, Managing Stress, Healthy Behaviors, Nutrition, and Fitness.

Prerequisite:None

6/8 – 6/28; 9:00 a.m.-12:00 p.m. or 12:45-3:45 p.m.

\$475.00

½ credit

4600S Medical Terminology: (Sophomore-Senior) This course is an overview of the basic techniques of medical word building to assist the student in developing a practical, useful medical vocabulary. Students are introduced to the structure of medical terms, including prefixes, suffixes, word roots, combining forms, and singular and plural forms, plus medical abbreviations and acronyms. Spelling, definition, and pronunciation of medical terms relating to medical procedures, human anatomy and physiology, diseases, and treatments are emphasized.

Prerequisite: None

6/8 – 6/28; 9:00 a.m.-12:00 p.m.

\$475.00

½ credit

6434S Government: (Senior) United States Government introduces students to the fundamentals of American government and politics, particularly the major institutions and processes. It also aims to develop students' skills and abilities in analyzing and evaluating issues and public policies in American politics as well as the role of the United States on the world stage. This course will have a final exam.

Prerequisite: None

6/7-6/28; 9:00 a.m.-12:00 p.m.

\$475.00

½ credit

6435S Macroeconomics: (Senior) This course is the study of American society and the free enterprise system. Emphasis is placed upon how society uses its limited resources and produces, distributes and consumes goods and services in order to satisfy the unlimited wants of its members. General principles of economics are presented including theory of supply and demand, money and banking, and monetary and fiscal policies. This course will have a final exam.

Prerequisite: None

6/7-6/28; 9:00 a.m.-12:00 p.m. or 12:45-3:45 p.m.

\$475.00

½ credit

6633 Psychology: (Junior-Senior) This course is designed to examine the principles of human behavior, the challenges of human experience, and the universal aspects of our diverse global society. Additional topics considered include heredity and environment, motivation and emotions, cognition and language, social psychology, abnormal psychology, and intelligence. The study of psychology offers useful insight into the behavior and mental processes of oneself and others. The study of the behavior of the individual correlates directly with the Ursuline core value, “respect for the uniqueness of the individual,” and the global nature of human culture, and is an investment in the lifelong process of education. It is an investment in the lifelong process of education. This course will have a final exam.

Prerequisite: None

6/7-6/28; 12:45-3:45 p.m.

\$475.00

½ credit

7442S Ecumenical and Interreligious Issues: (Junior-Senior) The purpose of this course is to help students understand the manner in which the Catholic Church relates to non-Catholic Christians as well as to other religions of the world. Building on the foundational truth that Jesus Christ established the Catholic Church and entrusted to her the fullness of God’s Revelation, the course is intended to help students recognize the ways in which important spiritual truths can also be found in non-Catholic Christian churches and ecclesial communities as well as in non-Christian religions. It is also intended to help them to recognize the ways in which other systems of belief and practice differ from the Catholic faith.

Prerequisite: None

6/8-6/28; 12:45-3:45 p.m.

\$475.00

½ credit

7335S Sacraments: Privileged Encounters with Jesus Christ: (Junior) Rooted in Christ’s ministry and applied by the Church, this course guides students to better understand how Jesus is personally and visibly present in the actions of the Sacraments. Students discover how the sacraments fulfill the human need for physical manifestations of the spiritual. The course ultimately aims at instilling the value of a Sacramental life as a personal experience of Christ’s grace.

Prerequisite: None

6/8-6/28; 12:45-3:45 p.m.

\$475.00

½ credit

Summer School Ceramics: (a multi-level combined course): This summer course is open to any student whether new or with experience in ceramics. Students on the beginning level will be introduced to the hand building methods of Pinching, Coiling and Slab as well as an introduction to the wheel. Students with experience in clay will continue working in clay at their own level of experience incorporating more complex forms, sculpture and wheel work. All work will be glazed and fired and the method of Raku firing will be explored.

2550S Ceramic Basics I: (Freshman-Senior). **Prerequisite:** None

2551S Ceramic Basics II: (Sophomore-Senior). **Prerequisite:** Instructor Approval

2552S Ceramics III: (Sophomore-Senior). **Prerequisite:** Instructor Approval

2553S Ceramics IV – (Sophomore-Senior). **Prerequisite:** Instructor Approval

6/8-6/28; 9:00 a.m.-12:00 p.m.

\$475.00

½ credit

2549S Fused Glass and Bead Making: (Sophomore-Senior) Fused glass involves layering thin sheets of glass, often using different colors to create patterns or simple images. The stack is then placed inside the electric kiln, and then heated and melted into a design. In this course students will learn how to make fused glass works and jewelry using the glass beads they make. All equipment is provided.

Prerequisite: None

6/8-6/28; 12:45– 3:45 p.m.

\$475.00

½ credit

2538S Studio Art I: Drawing & Painting Foundations: (Freshman - Senior) In this course students build and refine painting and drawing skills while developing an understanding of the Elements of Art: line, shape, color, value, form, texture, and space, as the fundamental building blocks for creating a work of art. Students will focus on applying the Elements of Art in a wide variety of artistic challenges by engaging in sketchbook activities and creating works of art. Creative art exercises will support a working knowledge of each art element and allow students to explore a variety of art mediums including charcoal, watercolor, acrylic paint, and collage. Students will use art vocabulary as they learn to describe, analyze, and interpret works of art. This hands-on art class is designed to benefit the beginning art student as well as challenge the advanced student. Completion of this class will prepare students by building their art portfolio, refining technical skills and developing the art vocabulary necessary to proceed to Studio Art II: Drawing.

Prerequisite: None

6/8-6/28; 9:00 a.m.-12:00 p.m.

\$475.00

½ credit

2500S Art Portfolio Preparation: (Sophomore-Senior) In this course students are given individually tailored instruction to develop an art portfolio that reflects individual interest, expression, and skill. Students will focus on refining their technical drawing and painting skills with an emphasis on problem-solving, critical thinking, and conceptual development of their work. Students will be challenged to develop a quality art portfolio that may be used as part of the admissions process to art, architecture and design colleges and programs. Portfolios may also be used to prepare for AP art class and as college application supplement. Upon successful completion of this course, this credit may be used place of one Studio Art class including SA II, SA III, or SA IV.

Prerequisite: Studio Art I

6/8-6/28; 9:00 a.m.-12:00 p.m.

\$475.00

½ credit

Summer Experiential Learning

Do you love learning and travel? Combine these passions in an Experiential Learning course that lets you explore a new culture while you learn its language or its geology. Experiential Learning courses combine the best of both worlds, allowing you to travel and learn alongside Ursuline classmates and faculty, both in class and in the field.

2570S Photography in Arizona: (Sophomore-Senior) This is a one-week trip in Arizona and Utah to see and photograph some of our world's most amazing sites. This class is for beginner through advanced level photographers. We will see Grand Canyon, Horseshoe Bend, Antelope Canyon, Monument Valley, and so much more. With personal, real-time instruction from Mr. Thompson, your camera will become your creative tool for self-expression. The group will fly to Phoenix and rent a van for short, mid-day drives to each location, preserving the early and late part of the days for shooting. This trip is in the huge physiographic region known as the Colorado Plateau. With Dr. Moody's guidance, we will learn the geology of these landscapes and how they were sculpted over millions of years. The fun includes: hiking (nothing more than 3 miles); Navajo culture; swimming; shopping; and general merriment. Students provide their own camera, but some loaners are available. Enrollment is limited to 8. *Final grade will be posted in the Fall Semester due to course completion after the close of Summer School.*

Prerequisite: None

For Information: contact William Thompson, Photography teacher, wthompson@ursulinedallas.org

On Campus: 7/7, 9:00-11:30 a.m. Camera orientation, last-minute travel details, and information.

Travel: 7/11 – 7/17

\$2,000.00, all-inclusive (\$50 deposit)

¼ credit

Summer Study Abroad: Caen, France: (Sophomore-Senior) It is a summer abroad experiential learning opportunity with ½ UA elective credit, and language certificate classes. Students travel, study and improve their language ability and cultural knowledge with morning classes and afternoon excursions and activities.

What is it like to explore Paris and the Normandy region, to study at the *Université de Caen (UC)* and to live with a host family for two weeks in France? Explore and experience France like never before! This two-week summer study abroad class will offer the opportunity to study French and visit one of the most wonderful countries in the world. For this language and cultural experience we partner with API, a study abroad organizer for high schools and colleges. The class will be taught by a combination of French UC faculty members and UA faculty. Classes will be held at the *Université de Caen*, Monday- Friday mornings and experiential activities at different cultural sites

will be offered in the afternoons and weekends. Conducted in French, this course includes classes, in-depth sightseeing, and experiential learning. The trip requires a minimum of students. *Final grade will be posted in the Fall Semester, due to course completion in the fall. Students can choose to complete this program either for a grade or on a Pass/Fail basis.*

Prerequisite: One year of French at UA

For Information: Contact Maluza Escamilla, World Language Department Chair, mescamilla@ursulinedallas.org

Travel: 6/30- 7/16 (16 days)

\$5,000.00; all-inclusive (\$500 deposit) ½ elective credit and Université de Caen certificate

Summer Study Abroad: Salamanca, Spain: (Sophomore-Senior) It is a summer abroad experiential learning opportunity with ½ UA elective credit, and language certificate classes. Students travel, study and improve their language ability and cultural knowledge with morning classes and afternoon excursions and activities.

What is it like to explore Madrid and the Castille-Leon region, to study at the *University of Salamanca (US)*, and to live with a host family for two weeks in Spain? Explore and experience Spain like never before! This two-week study abroad class will offer the opportunity to study Spanish and visit one of the most wonderful countries in the world. For this language and cultural experience we partner with API, a study abroad organizer for high schools and colleges. The class will be taught by a combination of Spanish US faculty members and UA faculty. Classes will be held at the University of Salamanca, Monday- Friday mornings and experiential activities at different cultural sites will be offered in the afternoons and weekends. Conducted in Spanish, this course includes classes, in-depth sightseeing, and experiential learning. This trip requires a minimum of students. *Final grade will be posted in the Fall Semester, due to course completion in the fall. Students can choose to complete this program either for a grade or on a Pass/Fail basis.*

Prerequisite: One year of Spanish at UA

For Information: Contact Maluza Escamilla, World Language Department Chair, mescamilla@ursulinedallas.org

Travel: 6/30 - 7/16 (16 days)

\$5,000.00; all-inclusive (\$500 deposit) ½ elective credit and 2.5 hours University of Salamanca college credit

Summer Study Abroad: Meknes, Morocco: (Sophomore-Senior) It is a summer abroad experiential learning opportunity with ½ UA elective credit, and language certificate classes. Students travel, study and improve their language ability and cultural knowledge with morning classes and afternoon excursions and activities.

What is it like to explore Meknes and northwestern Moroccan region, to study at the Arab American Language Institute (AALIM) and to live in a *riad (dorm)* in Morocco and experience an exciting and authentic journey improving your Arabic and sharing the culture? Explore and experience Morocco like never before! This two-week summer study abroad class will offer the opportunity to study Arabic and visit one of the most wonderful countries in the world. For this language and cultural experience we partner with API, a study abroad organizer for high schools and colleges. The class will be taught by a combination of Arabic AALIM faculty members and UA faculty. Classes will be held at the AALIM. Monday- Friday mornings and experiential activities at different cultural sites will be offered in the afternoons and weekends. Conducted in Arabic, this course includes classes, in-depth sightseeing, and experiential learning. The trip requires a minimum of students. *Final grade will be posted in the Fall Semester, due to course completion in the fall. Students can choose to complete this program either for a grade or on a Pass/Fail basis.*

Prerequisite: One year of Arabic at UA

For Information: Contact Maluza Escamilla, World Language Department Chair, mescamilla@ursulinedallas.org

Travel: 6/30 - 7/16 (16 days)

\$5,000.00; all-inclusive (\$500 deposit) ½ elective credit and AALIM certificate

Summer Enrichment Courses

Keep your mind fresh and get ahead this summer with Summer Enrichment Courses. Non-credit classes equip students with tools for success in the coming academic year. Summer internships give students the opportunity to gain work experience and life skills in a professional environment.

Summer Writing Workshop: (Senior) This workshop offers students the opportunity to develop their narrative voice with confidence, clarity, and purpose, preparing them for the college essay writing process. We will examine the questions on the Common App in order to understand voice and its interaction with audience and purpose. By the end of the course, the students will have completed at least one essay—but likely more—for their college applications.

Prerequisite: None

6/8-6/14; 9:30 a.m.-12:00 p.m. or 12:45-3:15 p.m.

\$125.00

Non-credit

Introduction to Music Theory: (Freshman-Senior) This seminar reinforces the basic elements of music: lines/spaces, clefs, keys, accidentals, and intervals. They will be internalized through drills, exercises, and games. This seminar is a good choice for the student whether enhancing a musician's performance and sight-reading skills or preparing for the study of music theory, the basics should be as automatic as breathing.

Prerequisite: None

6/8-6/14; 9:30 a.m.-12:00 p.m.

\$125.00

Non-credit

Algebra Advance: (Freshman-Sophomore) This course focuses on strengthening concepts from Algebra I that may not have been fully mastered. Upon successful completion of this course and with teacher recommendation, students will be enrolled in Geometry Honors. Algebra Advance is by invitation only. Students will be contacted directly by the math department if they have met the criteria to take this course. The TI-Nspire CX CAS handheld calculator is required. It will be used extensively in all math and science courses throughout the school year.

Prerequisite: Invitation by Department

6/8-6/28; 9:30 a.m.-12:00 p.m. or 12:45-3:15 p.m.

\$350.00

Non-credit

Bridge to AP Calculus AB Summer Course: (Senior) This is a bridge course that prepares students from Algebra II/ Trigonometry Honors for AP Calculus AB. It is an intensive study of function families, specifically trigonometric functions, as well as analytical geometry, complex numbers, and polar and parametric equations. Students will be expected to demonstrate proficiency working with linear, quadratic, exponential, and logarithmic functions. Upon successful completion of this course and with teacher recommendation, students will be enrolled AP Calculus AB. Math Department approval is required for enrollment in this summer course.

Prerequisite: Algebra II/ Trigonometry Honors

6/8-6/28; 12:45-3:45 p.m.

\$350.00

Non-credit

Algebra/Geometry Refresher: (Sophomore) This course reviews concepts from Algebra 1/Geometry 1 Year 1 in preparation for Year 2. Graphing parent functions and transformations, solving equations and inequalities (linear, quadratic, rational, radical, absolute value), solving systems with two variables, exploring properties of exponents, and working with polynomials (factoring, operations) are among the topics to be practiced and reviewed. The course is recommended for rising sophomores needing to build more confidence in their mathematical understanding. It also encouraged for students moving from on-level Year 1 to Year 2 Honors.

Prerequisite: Algebra I/ Geometry 1

6/8-6/28; 9:30 a.m.-12:00 p.m.

\$350.00

Non-credit

Spanish Refresher: (Freshman-Sophomore) This course will equip students with some Spanish experience with the tools to feel confident in interacting with another person in a simple way, understanding simple discourse, reading

and comprehending simplified texts, extending greetings, expressing likes, dislikes, preferences and desires, asking questions and giving replies, writing simple sentences and short dialogues in Spanish. Vocabulary related to oneself, family, school, home, work, sports, weather, free time, will be reviewed as well as grammatical themes of nouns, adjectives, pronouns, regular and irregular verbs in the present tense, expression of likes and dislikes, sentence structure, formation of questions, immediate future and reflexive verbs.

Prerequisite: Spanish 1 or Middle School Spanish

6/8-6/28; 9:30 a.m.-12:00 p.m.

\$350.00

Non-credit

Ursuline Academy Student Internship Program: (Senior) This program offers personal development, life-skills mentoring and rare career awareness through practical experience. These are UA researched and authorized summer internships with Dallas area professionals, many of whom are Ursuline alumnae. Internships are available to rising Seniors and take place between June 1 and July 31, 2017, prior to the senior year. Juniors apply in the spring of 2017 for internships which are presented in the 2017 Student Internship Catalogue. The catalogue is posted in Blackboard to all eligible juniors prior to Spring Break. Internship and mentor profiles, application forms and permission forms are included in the catalogue along with instructions on how to apply. Applications must be submitted no later than March 24, 2017. The matches of interns to mentors are made on a first come, first served basis. To earn acknowledgment on transcripts, interns must complete a minimum of 60 hours of internship service, maintain a journal and complete an on-line evaluation at the conclusion of the program. Completed journals and evaluations must be submitted to the director of the program no later than Senior Orientation Day in August 2017 to qualify for transcript acknowledgement. For more information, please contact Christian Freberg at cfreberg@ursulinedallas.org.

Prerequisite: Submit application by March 24, 2017, Application Approved

Service: 6/1 – 7/31; Assignment due by Senior Orientation.

\$250.00 (*non-refundable*)

Non-credit

Incoming Freshman Courses

Want to get a jumpstart on your first year at Ursuline? UA Incoming Freshman Courses are enrichment classes designed to help you get the best possible start to high school. These classes, offered in English, Mathematics, and Study Skills, will review prerequisite material necessary for success and give students a head start on their class in the fall. Additionally, Incoming Freshman Courses are a great way to meet UA teachers and future classmates.

Frosh Start English: (Freshman) Frosh Start English is a course designed to assist incoming freshmen in developing and refining the reading and writing skills necessary for success at Ursuline. Students will use required readings as a basis for various reading and writing assignments and experiences.

Prerequisite: None

6/7 only; 11:00 a.m.-12:00 p.m. or 12:45-1:45 p.m.

6/8-6/28; 9:30 a.m.-12:00 p.m. or 12:45-3:15 p.m.

\$350.00

Non-credit

Frosh Start Math: (Freshman) Frosh Start Math focuses on strengthening pre-algebra concepts that are foundational for success in the Algebra I/Geometry Year I course. The TI-Nspire CX CAS handheld calculator is required. It will be used extensively in all math and science courses throughout the school year.

Prerequisite: None

6/7 only; 11:00 a.m.-12:00 p.m. or 12:45-1:45 p.m.

6/8-6/28; 9:30 a.m.-12:00 p.m. or 12:45-3:15 p.m.

\$350.00

Non-credit

Algebra Advance: (Freshman-Sophomore) This course focuses on strengthening concepts from Algebra I that may not have been fully mastered. Upon successful completion of this course and with teacher recommendation, students will be enrolled in Geometry Honors. Algebra Advance is by invitation only. Students will be contacted directly by the math department if they have met the criteria to take this course. The TI-Nspire CX CAS handheld calculator is required. It will be used extensively in all math and science courses throughout the school year.

Prerequisite: Invitation by Department

6/8-6/28; 9:30-12:00 p.m. or 12:45-3:15 p.m.

\$350.00

Non-credit

Study Skills Workshop: (Freshman) This workshop coaches incoming students on effective classroom learning strategies, study skills, time management and organizational skills that will help them to make a successful transition into high school. Students experience the campus and work cooperatively with their freshman classmates to build skills and develop confidence for the coming school year.

Prerequisite: None

6/8-6/28; 9:00-9:25 a.m. or 3:20-3:45 p.m.

\$150.00

Non-credit