



URSULINE

Voice. Values. Vision.

Curriculum Guide 2017



Mission Statement

In the Catholic tradition of Ursuline education, the mission of Ursuline Academy is to prepare the young woman for college and beyond by nurturing her soul, intellect, heart and imagination.

Philosophy

In the vision of St. Angela Merici, Ursuline empowers the young woman to recognize her unique gifts, to give voice to her ideals, to strive for personal and academic excellence, to seek justice through actions inspired by Gospel values, and to accept the challenge of human freedom with its accompanying responsibilities. Ursuline welcomes diversity and fosters community in an atmosphere of mutual respect.

The Core Values

Ursuline Academy centers its policies, procedures and practices in the Ursuline core values of:

VOICE: United in Respect and Openness

VALUES: Committed to Excellence, Service and Spirituality

VISION: Empowered by our Ursuline Legacy



URSULINE

Voice. Values. Vision.®

January 6, 2017

Dear Students,

Welcome to the course selection process for the 2017-2018 school year! I encourage you to read this guide carefully. Our goal behind this guide and the course selection process is to provide information that allows you to make responsible and well-informed decisions regarding your course selection for the coming year.

As you consider your selections, think about the level of commitment that your course load represents. Also consider the time involved in your activities and commitments both inside and outside of Ursuline. Set a goal to create a challenging course load without over committing yourself. Colleges are looking for students who have achieved balance in their academic, co-curricular and personal commitments.

Finally, take the opportunity to enjoy this time. Few high schools offer the students the diversity of courses and freedom of choice that Ursuline offers. Create a schedule that will help achieve the goals you have set for yourself, expand your knowledge and guide your journey as an Ursuline woman.

Sincerely,

Mr. Barhorst



TABLE OF CONTENTS

Designing Your Course of Study	1
Guidelines	3
English.....	6
Fine Arts Electives	9
Art.....	9
Electronic & Digital Media	12
Music	14
Theater Arts	16
Guidance	17
Health & Physical Education.....	18
Mathematics	19
Religious Studies	22
Science	26
Social Studies.....	30
World Languages	33
General Electives.....	38
Summer Courses	41
Planning Guides	45



DESIGNING YOUR COURSE OF STUDY

COURSE OFFERINGS

Over 100 courses are described in this guide. Courses are subject to cancellation based on insufficient student numbers, scheduling conflicts, or changes in staffing.

LEVELS OF DIFFICULTY

Some courses are organized at varying levels of difficulty while in other courses students are grouped heterogeneously. Since the interests and talents of students vary according to the subject, level placement for students will be made in individual courses.

HONORS LEVEL

Courses at the Honors level may cover additional content and/or explore content in greater depth. Students may also be required to do additional reading and independent work. These courses typically move at a faster pace and are recommended for students who are self-directed, well organized, and able to move through material more quickly. Assessment focuses more heavily on synthesis and application than memorization and recall.

ADVANCED PLACEMENT

All Advanced Placement Courses offered at Ursuline Academy have been approved by the College Board. These rigorous courses, intensive and accelerated, are the equivalent of college work, and successful completion of these courses may result in college credit. (Many universities grant credit to students scoring 3 or above on the AP exams.) Students are to plan carefully the number of AP courses selected and to consider other activities in which they are involved when making their course selection. Students are not required to take the AP exam administered in May, but they are strongly encouraged to do so. Advanced Placement courses are offered in the following areas: Art, Biology, Calculus, Chemistry, Economics, English Literature, English Language and Composition, French, Government, Latin, Physics, Psychology, Spanish, Statistics, United States History, World History and Human Geography.

EARLY BIRD CLASSES

These are classes offered before the official school day begins. Early bird classes are 7:10 - 7:50 A.M. every school day, unless otherwise noted. Early bird classes are scheduled to meet overall scheduling needs not the requests of individual students.

EVENING/AFTER SCHOOL CLASSES

Classes that meet one time a week in the evening or after school require a serious commitment to attendance. These classes are scheduled to meet overall scheduling needs not the requests of individual students. Because each class is the equivalent of one week of school, credit may not be granted if students miss more than 3 classes.

SUMMER COURSES

Ursuline offers several summer courses to provide an opportunity to advance a sequence or to assist in fulfilling elective credit. As with any course selections, students should discuss summer course selections with their counselor. Applications are available on the Ursuline Academy website and in the guidance department.

Students who wish to pursue summer courses outside Ursuline should apply through the Credit Flexibility process. Forms for this purpose are available on the website and in the Guidance Department.

FRESHMAN PLACEMENT

Incoming freshmen will be placed in courses based on the results of the entrance test and/or results of Ursuline placement tests, e.g. math and world languages. Level changes will be considered during the 1st quarter. All other schedule changes must be made prior to June 30, 2017. Freshman counselors will monitor the student's placement as the school year begins.



COURSE LOAD

All students are required to carry 6 credits per year in addition to physical education and guidance requirements.

GRADE RECOMMENDATIONS FOR COURSE LEVELS

Students who are currently earning grades of A or better in a subject might consider moving to an honors level in the next year.

Students who are currently earning grades of B or better at the honors level in a subject should consider remaining at the honors level in the next year.

CREDITS REQUIRED FOR GRADUATION

Outlined below are the minimum requirements for a diploma. These are defined in terms of “credits” earned.

The number of credits required for graduation is 24:

English	4 credits
Fine Arts.....	1 credit
Guidance	$\frac{3}{8}$ credit
Health	$\frac{1}{2}$ credit
Mathematics	4 credits
Physical Education.....	$\frac{1}{2}$ credit
Religious Studies	4 credits
Science	3 credits
Social Studies.....	3 credits
World Languages	2 credits

Students are encouraged to take additional courses in world languages and science. Colleges and universities generally require 3 credits in the same language and a science course sequence that includes biology, chemistry, and physics.

AUDITING COURSES

Any student is permitted to audit any course for which she is not scheduled as long as class space is available. Requests must be made through the counselor. No credit will be granted for audited courses. Audited courses do not count toward the number of required courses for a semester.

PASS/FAIL

If a student is carrying five graded credits, she may choose to take one elective credit on a pass/fail basis. This option does not apply to world languages, required courses, or AP courses.

All pass/fail decisions must be made by the end of the fifth week of a course and must have parental approval. Forms for this purpose are available in the guidance office. Once this decision has been made, it may not be reversed.

INDEPENDENT STUDY

Requests to take a course as an independent study will be evaluated on an individual basis. Requests should be made through the student's counselor and require approval of the teacher and administration.

CREDIT FLEXIBILITY

Students at Ursuline Academy may participate in the Ohio Plan for Credit Flexibility. These options give students the opportunity to pursue interests or needs through personally designed programs or courses offered outside Ursuline. However, to maintain the integrity of the Ursuline curriculum and the mission of the school, students will be required to sign for the required 6 courses each semester, 5 of which must be taken at Ursuline Academy.

Applications for Credit Flexibility will be accepted **during the course selection process only**. Applications are available on the web site or from a student's counselor. The Assistant Principal and a committee will review the application and accept or deny the application.

Students who choose to exercise the Credit Flexibility option and take required courses without department recommendation assume responsibility for any gaps in the foundational knowledge necessary for upper level courses and may be required to demonstrate mastery before being admitted to a higher level course.

SCHEDULE CHANGE POLICY

The course selection process at Ursuline has been carefully designed to provide students with a significant period of time and varied opportunities to learn about their course options for the upcoming year. These opportunities include the information outlined in this *Curriculum Guide*; Course Options Day, where students have the opportunity to learn directly from the teachers what expectations for different courses are; and information disseminated in guidance groups. Students are also encouraged to seek the advice of their teachers, guidance counselors, and parents prior to making their selections. At every point in the process, students are encouraged to choose wisely based on their aptitude, ability, and commitment to other activities.

As an institution, Ursuline Academy is committed to providing students with the best classroom experience possible. The courses offered, particularly the elective courses, are determined by student interest. The information obtained from the course selection process, namely, the number of students enrolled in each course, is used to determine staffing needs and the number of sections offered in each course, both of which serve to maintain low student to faculty ratio.

Ursuline's schedule change policy reflects both of these realities, while providing students with some flexibility to make necessary changes. After a student has submitted her course selection form to her counselor, she is permitted to make changes to her selections until **June 30, 2017**. This allows students a final opportunity to review their report card and courses scheduled (which will be included with the final report card) for the following year. Guidance counselors will be available in the weeks following the end of the school year in order to facilitate any changes made prior to the deadline. Students will be required to complete a schedule change form, including parent signature, along with the \$100 fee before changes are processed.



ENGLISH

The English department is dedicated to fostering the understanding, appreciation, and creative expression of thought and meaning through the use of language in its core curriculum and electives. English courses combine a survey of various literature selections with the study of critical reading, new vocabulary, writing strategies, research skills, grammar usage, and public speaking. Overall, the curriculum is writing intensive. As students advance through the grade levels, texts and writing assignments become more complex, and language lessons are sequentially introduced and reinforced to support this complexity. This curriculum provides students with confidence, practice, and mastery in the language arts.

COURSE: **ENGLISH I**, 1 credit, full year

PREREQUISITES: Placement made by entrance test score

Open to grade 9

DESCRIPTION: This course works to introduce and/or refresh the foundational skills necessary for success in high school English. The literature portion of this course includes the critical reading and analysis of a survey of fiction, non-fiction, drama, and poetry across historical periods and cultures. Vocabulary is expanded through the study of literature and other vocabulary exercises. Writing instruction details the writing process through the crafting of several texts emphasizing paragraphs, essays, creative writing, introductory research reports, and timed writing. Opportunities are given to study the grammatical foundation of the English language, and students are introduced to the use of the Writing Center. Public speaking is developed through formal and informal presentations. Summer assignments are required for this course.

COURSE: **ENGLISH I HONORS**, 1 credit, full year, honors

PREREQUISITES: Placement made by entrance test score

Open to grade 9

DESCRIPTION: This course is offered as an alternative to English I. A higher proportion of assessment in this course focuses on the synthesis and application of course materials. Summer assignments are required for this course.

COURSE: **ENGLISH II**, 1 credit, full year

PREREQUISITES: English I

Open to grade 10

DESCRIPTION: Like English I, the literature portion of English II includes the critical reading and analysis of a survey of fiction, non-fiction, drama, and poetry across historical periods and cultures. Vocabulary is further expanded through the study of literature and other exercises. Writing instruction expands the crafting of several texts emphasizing explanatory, persuasive and research essays, creative writing, and timed writing. Opportunities are given to study the grammatical foundation of the English language and continued use of the Writing Center. Public speaking is developed through formal and informal presentations. Summer assignments are required for this course.

COURSE: **ENGLISH II HONORS**, 1 credit, full year, honors

PREREQUISITES: English I

Open to grade 10

DESCRIPTION: This course is offered as an alternative to English II. A higher proportion of assessment in this course focuses on the synthesis and application of course materials. Summer assignments are required for this course.

COURSE: **ENGLISH III**, 1 credit, full year

PREREQUISITES: English II

Open to grade 11

DESCRIPTION: The literature portion of this course includes the critical reading and analysis of a survey of American literature. The poetry, short stories, nonfiction texts, novels, and plays that are studied highlight a particular literary style or time period. Vocabulary is further expanded through the study of literature and other exercises. Writing instruction expands the crafting of several texts including the personal, analytical, and persuasive essays. Emphasis is placed on the writing of a research paper that analyzes a work of American literature. Continued opportunities are given to study the grammatical foundation of the English language. Public speaking skills are further developed through formal and informal presentations. Summer assignments are required for this course.

COURSE: **ENGLISH III HONORS**, 1 credit, full year, honors

PREREQUISITES: English II

Open to grade 11

DESCRIPTION: This course is offered as an alternative to English III. A higher proportion of assessment in this course focuses on the synthesis and application of course materials. Summer assignments are required for this course.

COURSE: **AMERICAN STUDIES**, 2 credits, full year, English honors and Social Studies honors, Early Bird plus 2 mods during the day.

PREREQUISITE: English II

REQUIREMENTS: Application. Enrollment limited to 28 students.

Open to grade 11

DESCRIPTION: This course uses a team-taught, interdisciplinary, integrated and thematic approach combining American History and American Literature. Critical thinking, cooperative learning, inquiry, and research are used to discover how literature influenced history and how history influenced literature in America. This course offers many opportunities for creative, group projects. Summer assignments are required for this course.

COURSE: ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION, 1 credit, full year, honors

PREREQUISITES: English II

Open to grade 11

DESCRIPTION: This course aligns to an introductory college level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines. Overall, the texts will represent a time span from American beginnings through contemporary literature and foundational U.S. documents of historical significance. This course satisfies the requirement for junior English.

COURSE: ENGLISH IV, 1 credit, full year

PREREQUISITES: English III

Open to grade 12

DESCRIPTION: The literature portion of this course includes the critical reading and analysis of a survey of British and world literature. The poetry, short stories, nonfiction texts, novels, and plays that are studied highlight a particular literary style or time period. Vocabulary is further expanded through the study of literature and other exercises. Writing instruction expands the crafting of several texts including personal, analytical, and persuasive essays. Emphasis

is placed on the writing of research papers that analyze works of British and world literature. Continued opportunities are given to study the grammatical foundation of the English language. Public speaking skills are further developed through formal and informal presentations. Summer assignments are required for this course.

Course: ENGLISH IV HONORS, 1 credit, full year, honors

PREREQUISITES: English III

Open to grade 12

DESCRIPTION: This course is offered as an alternative to English IV. A higher proportion of assessment in this course focuses on the synthesis and application of course materials. Summer assignments are required.

COURSE: ADVANCED PLACEMENT ENGLISH LITERATURE, 1 credit, full year, honors

PREREQUISITES: English III

Open to Grade 12.

DESCRIPTION: Satisfying the requirements for senior English, this course is an in-depth study of world literature emphasizing the topics of close reading, critical thinking and discussion, literary analysis and independent research at the college level. Literary topics include War, Appearance vs. Reality, and Passions vs. Responsibility. Writing instruction expands the crafting of several complex texts. Summer assignments are required for this course.



FINE ARTS ELECTIVES

ART

The Art Department nurtures a passion for creative engagement and new discoveries, preparing students to thoughtfully respond to and participate in their world. A sequential curriculum guides the development of each student's perceptual, technical, and expressive abilities. Courses present creative opportunities that foster the ability to think both analytically and critically. Visual principles are taught using a wide range of materials and visual formats. The electronic & digital media courses challenge students to explore visual arts through the use of technology.

COURSE: FUNDAMENTALS OF ART, ½ credit, semester

PREREQUISITES: None

Open to grades 9, 10, 11, 12

DESCRIPTION: This is a general foundation course providing students with a sampling of many art materials and visual concepts. Students will creatively explore 2-dimensional and 3-dimensional design, drawing/painting approaches, and sculptural methods. They will also conduct an academic exploration into aesthetic concepts. This course will teach students the "language" of art and design and will prepare them to express their ideas visually.

COURSE: DESIGN, ½ credit, semester, 1st semester only

PREREQUISITES: Fundamentals of Art

Open to grades 10, 11, 12

DESCRIPTION: Students will analyze, synthesize, create, and critique the nature of "good design" according to the principles and elements of a successful composition. By using a variety of interesting materials, each

student will create designs of quality and interest. The concepts and skills learned are applicable to web design, graphic design, fashion design, etc. and are fundamental to building an exemplary college bound design portfolio. Design is highly recommended before taking AP 2-D Design.

COURSE: DRAWING AND PAINTING, ½ credit, 1st semester only

PREREQUISITES: Fundamentals of Art

Open to grades 10, 11, 12

DESCRIPTION: This course will teach various styles of drawing and painting so each student may better express herself visually. These styles will blend influences from 19th and 20th century artists into a personal mode of expression. New concepts and techniques including linear perspective, creative composition, color mixing and portrait drawing will be taught.

COURSE: **ENAMELING**, ½ credit, 1st semester only

PREREQUISITES: Fundamentals of Art

Open to grades 10, 11, 12

DESCRIPTION: Enameling consists of fusing glass to copper by firing in a kiln. Students will learn to apply and control these elements in the creation of enameled pieces using sgraffito, stencil, cloisonné, and wet packing techniques. Color and composition studies will be integrated into the course serving as the design foundation for enameling projects.

COURSE: **HANDBUILDING IN CLAY**, ½ credit, 2nd semester only

PREREQUISITES: Fundamentals of Art

Open to grades 10, 11, 12

DESCRIPTION: This course will explore basic handbuilding techniques in the medium of clay. Students will produce pinched, coiled, and slab-built ceramic forms. Students will also create both functional and sculptural projects and learn techniques of decoration such as stamps, sgraffito, and painting with glazes. Historical aspects of ceramics will be analyzed and used as sources of inspiration for personal projects.

COURSE: **MIXED MEDIA**, ½ credit, semester

PREREQUISITES: Fundamentals of Art

Open to grades 10, 11, 12

DESCRIPTION: This is an introductory course in the use of a variety of materials and techniques such as block printing, handmade book design, sculpture, assemblage, collage, and creating projects from recycled materials. Emphasis will be placed on

developing creativity as students learn to give their ideas a visual form.

COURSE: **SET DESIGN**, ½ credit, 1st semester only, meets once during the day plus Wednesday from 3:30-5:30 pm.

PREREQUISITES: Fundamentals of Art

Open to grades 10, 11, 12

DESCRIPTION: This is a multi-faceted course combining both two-dimensional and three-dimensional thinking. Students will read and decide how to visually interpret scripts; sketch floor plans and scenes; and create 3D models of sets. This class will work in conjunction with set design for the musical, with the possibility of student designs being created for the stage. Other skills gained will include: planning a design project from start to finish, financial planning, basic tool use and safety, and more. This course is ideal for students interested in storytelling, interior design, architecture and/or theater. There will be some additional time requirements during set construction for the musical (including Thursdays from 3:30-5:30 pm and/or Saturdays from 12-2:30 pm)

COURSE: **ADVANCED HANDBUILDING IN CLAY**, ½ credit, 2nd semester only, honors

PREREQUISITES: Fundamentals of Art and Handbuilding in Clay

Open to grades 10, 11, 12

DESCRIPTION: This course will build on the knowledge gained during Handbuilding in Clay. Students will produce more sophisticated final forms as well as work with new materials and finishing techniques (such as over glaze, decals, and press-molds). Students will also explore various

aspects of working with clay professionally.

COURSE: ADVANCED STUDIO, 1 credit, full year, honors, **may not be taken Pass/Fail**

PREREQUISITES: Drawing and Painting

Open to grade 11, 12

DESCRIPTION: This course integrates previously learned styles and techniques into a personalized mode of expression. Students will be prepared intellectually and technically for a future in the field of art, building a substantial body of work that may be used for a college or art school evaluation and portfolio. Art History concepts will be integrated to promote a historical reference to art and increase artistic appreciation. This course is taught in the same section as the AP art courses. Juniors in Advanced Studio will have the opportunity to create works for their AP portfolios.

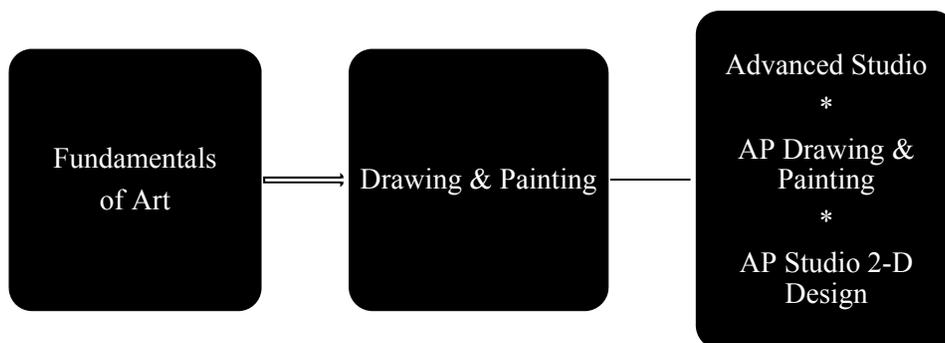
COURSE: ADVANCED PLACEMENT STUDIO: Drawing or 2-D DESIGN, 1 credit, full year, honors

PREREQUISITES: Drawing and Painting

Open to grade 12

DESCRIPTION: The Advanced Placement Drawing and Painting course is a college-level course in the visual arts. Colleges and universities will review a student's portfolio before awarding advanced credit. Students enrolled in this course will be expected to produce a minimum of thirty (30) works of art in a variety of media in drawing or 2-D design. The techniques and subject matter must be in compliance with the Advanced Placement Program in studio art. Emphasis is placed on drawing from observation, the application of color, and a clear understanding of design principles. The development of a body of work will be of the student's own choosing. Recognition of the history of art and its role in the development of visual ideas and the application of the critique process in written and oral form are also components. Students are expected to work both in school and at home throughout the school year. Summer assignments are required for this course.

The following diagram illustrates the course sequence options necessary to take an AP art course.



ELECTRONIC & DIGITAL MEDIA

COURSE: INTRODUCTION TO GRAPHIC DESIGN, ½ credit, semester

PREREQUISITES: Fundamentals of Art or Technical Communications

Open to grades 10, 11, 12

DESCRIPTION: In this introduction to graphic design, hand-made art merges with computer-based graphics. Students will use varied media in the process of creating designs that will ultimately be completed on the computer and will delve into photo editing, logo design/illustration, and layout design. The course will draw on fine art and popular culture icons as examples of graphic design in everyday life. Students will have opportunities to design for real clients.

COURSE: INTRODUCTION TO TECHNICAL COMMUNICATIONS, ½ credit, semester

PREREQUISITES: None

Open to grades 9, 10, 11, 12

DESCRIPTION: This course introduces students to creating websites, posters, infographics, brochures, newsletters, and advanced digital presentations. Students study digital literacy, design printed materials, and create a website. Color theory, typography theory, page design theory, and design principles are explored. Presentation, public speaking, and writing skills will also be emphasized.

COURSE: INTRODUCTION TO WEB DESIGN, ½ credit, semester

PREREQUISITES: Introduction to Technical Communications or Introduction to Graphic Design

Open to grades 10, 11, 12

DESCRIPTION: This course offers advance studies of design principles and writing strategies for developing websites. Using Hypertext Markup Language (HTML), and Cascading Style Sheets (CSS), students create a web-based timeline and a website.

COURSE: PRINT MEDIA, ½ credit, semester (offered 2018-2019 school year)

PREREQUISITES: Introduction to Technical Communications or Introduction to Graphic Design

Open to grades 10, 11, 12

DESCRIPTION: This course offers advanced study of writing strategies and design principles for print media. Students learn how to write, design, create logos, and marketing materials. Students learn how to apply color theory, typography theory, page design theory, and design principles, while using multiple software programs.

COURSE: INTRODUCTION TO MEDIA PRODUCTION, ½ credit, semester

PREREQUISITES: None

Open to grades 9, 10, 11, 12

DESCRIPTION: This course introduces students to the art of film. Students learn the five stages of the production cycle, involving scriptwriting, storyboarding, sound recording, filming, and editing. Film projects include a music video and short film.

COURSE: TELEVISION PRODUCTION I, ½ credit, semester

PREREQUISITES: Introduction to Media Production

Open to grades 10, 11, 12

DESCRIPTION: This course focuses on the study of broadcast journalism. Students learn how to track down stories, film interviews, and produce films including commercials, public service announcements and news stories.

COURSE: TELEVISION PRODUCTION II, ½ credit, semester

PREREQUISITES: Introduction to Media Production, Television Production I

Open to grades 11, 12

DESCRIPTION: In this course, students continue the study of broadcast journalism, focusing specifically on the art of storytelling through news stories. Students direct and produce news broadcasts by managing story ideas, assigning news segments, organizing film shoots, overseeing the editing process, and producing web-based broadcasts.

COURSE: VIDEO PRODUCTION I, ½ credit, semester

PREREQUISITES: Introduction to Media Production

Open to grades 10, 11, 12

DESCRIPTION: This course is a beginning workshop in narrative film production. Drawing from historical examples and film theory, students study film as an art form while exploring production fundamentals including organization and preparation, camera and lens technology, framing and composition, lighting, cinematography,

sound recording and directing. Using digital technology, students work together to produce several films with an emphasis on visual storytelling and personal expression.

COURSE: VIDEO PRODUCTION II, ½ credit, semester

PREREQUISITES: Introduction to Media Production, Video Production I

Open to grades 10, 11, 12

DESCRIPTION: In this course, students continue to explore film history and film theory in further detail. Drawing from historical examples, students examine the expressive strategies used in cinema, including filming, editing, composition, framing, sound, narrative and performance. Throughout the course, continued emphasis is placed on story and storytelling. Students produce a documentary film, putting film theory into practice.

COURSE: ADVANCED FILM STUDIO, 1 credit, full year, honors, **may not be taken Pass/Fail**

PREREQUISITES: Introduction to Media Production, Video Production I

Open to grade 12

DESCRIPTION: This course integrates film analysis, film theory/history, and the creative process. Students will be prepared intellectually and technically for a future in the fields of Film and/or Media, continuing to build a body of work to use for a college or film school evaluation and portfolio. Film theory and history concepts will be integrated to promote a historical reference to film and increase artistic preparation.

MUSIC

The Ursuline Academy Music Department provides an opportunity for artistic expression through vocal and instrumental ensembles. The goals of the department are to develop the talent of the individual student and to maintain a high standard of excellence for performance. The ensembles provide the Ursuline community seasonal concerts, musical leadership at Liturgies, and entertainment at special events.

COURSE: WOMEN'S CHORUS, ½ credit, full year, sections are offered either during the day or after school Monday, 3:15-5:15 pm (May be taken for no credit with permission of instructor prior to course selection.)

Open to grades 9, 10, 11, 12

DESCRIPTION: This ensemble performs music spanning all periods and genres. Students develop their sight-singing skills, pitch recognition, ear training, and interpretive, expressive and vocal ensemble techniques. Participation at all performances is required.

COURSE: A CAPPELLA, 1 credit, full year

PREREQUISITE: Audition

COREQUISITES: Member of Women's Chorus meeting Monday 3:15-5:15 pm or during the day. (May be taken for no credit with permission of instructor prior to course selection.)

Open to grades 10, 11, 12

DESCRIPTION: The A Cappella choir is a highly select ensemble of singers that specialize in accompanied and unaccompanied vocal repertoire spanning all periods in music history. Members must demonstrate music-reading skills at an accelerated level as well as the ability to carry their own part individually. All performances and class meetings are required. A Cappella is the ensemble that most frequently

represents Ursuline off campus for special functions.

COURSE: SHOW CHOIR, ½ credit, full year, meets Tuesday, 3:15-5:15pm. (May be taken for no credit with permission of instructor after auditions)

PREREQUISITE: Audition

COREQUISITES: Member of Women's Chorus meeting either Monday 3:15-5:15 pm or during the day.

Open to grades 10, 11, 12

DESCRIPTION: This highly specialized ensemble combines the love of singing with the joy of dance. Students learn a variety of pieces, from barbershop to classic show tunes. They then unite their vocals with complex and entertaining choreography. This is an auditioned group that is open to students in grades 10-12. Students are required to attend a summer camp to gain dance technique and choreography. All performances and class meetings are required.

COURSE: INSTRUMENTAL MUSIC, ½ credit, full year, sections are offered either during the day or after school Wednesday, 3:15-5:15 pm.

PREREQUISITES: None

REQUIREMENT: Private lessons on instrument of choice

Open to grades 9, 10, 11, 12

DESCRIPTION: The class is designed for players who would like an opportunity in school to hone their craft on an instrument. All instruments are welcome. This course will focus on improving individual skill on an instrument as well as small ensemble playing and listening. A wide array of repertoire will be covered, ranging from classical, folk, jazz, and choral works.

COURSE: **SINFONIA**, ½ credit, full year, meets Thursday 3:15-5:15 pm

PREREQUISITE: Audition

REQUIREMENT: Private lessons on instrument of choice

Open to grades 9, 10, 11, 12

DESCRIPTION: A select group of instrumentalists that studies and performs selections from the baroque to post-modern periods. Sinfonia members will have the opportunity to perform as soloists.

COURSE: **BEGINNING GUITAR**, ½ credit, full year

PREREQUISITES: None

REQUIREMENT: Students must provide their own instrument (acoustic, steel-string)

Open to grades 9, 10, 11, 12

DESCRIPTION: A class designed to introduce students to basic music theory and the guitar. Focus will be on reading music, understanding scales, chords, rhythms and tablature. Beginning guitar techniques will

include: guitar maintenance and tuning, basic chords, strumming and picking styles, finger picking basic melodies, and song accompanying. The class will study different playing styles, including folk, rock, blues, bluegrass, and country as well as the development of the guitar throughout music history.

COURSE: **BEGINNING PIANO**, ½ credit, full year

PREREQUISITES: None

Open to grades 9, 10, 11, 12

DESCRIPTION: A class designed to introduce students to basic music theory and the piano. Focus will be on reading music, understanding scales, and basic chords and rhythms. Piano techniques will include: finger placement and hand formation, one-hand melodies, two-hand melody with accompaniment, chord reading, and correct pedal use. The class will study music from Baroque, Classical, Romantic, and Neoclassical musical time periods as well as a history of the piano.

COURSE: **MUSIC THEORY**, ½ credit, full year

PREREQUISITES: None

Open to grades 11, 12

DESCRIPTION: This course prepares students for college music. Students learn the fundamentals of music theory and construct music utilizing music notation software.

THEATER ARTS

COURSE: **DRAMA I**, ½ fine arts credit, semester

PREREQUISITES: None

Open to Grades 10, 11, 12

DESCRIPTION: This course is a basic survey of drama, including the topics of drama history and acting techniques from physicalization and improvisation progressing toward monologue and oral interpretation. The emphasis of this class is to increase poise and self-confidence while “on stage” in the areas of stage movement, vocal delivery, believability of action and characterization. Students will have a number of opportunities to perform.



The Guidance Department strives to support students within the context of Ursuline core values and philosophy: attention to the needs of the individual; emphasis on the development of the student as a whole person; openness to diversity; recognition of the gifts and dignity of every student; promotion of academic excellence; and empowerment of the student.

The Guidance Department provides individual counseling, guidance classes, test preparation and interpretation, and college readiness tools. The department works with students on academic, behavioral, social, and emotional concerns. A key component of the program is ongoing collaboration with students, faculty, and parents.

COURSE: FRESHMAN GUIDANCE, 1/8 credit, full year, Pass/Fail

PREREQUISITES: None

Open to grade 9

DESCRIPTION: Students are introduced in the first semester to a variety of supports and resources that they can access as they transition from grade school to high school. Students identify and reflect upon their own personal learning styles and helpful study strategies, which coincide with how they learn best. Facilitated discussions about the importance of positive assets are incorporated into class sessions. The second semester focuses on scheduling and creating a four year plan. Students will continue to discover their personal assets, explore their values, and evaluate their goals.

COURSE: SOPHOMORE GUIDANCE, 1/8 credit, full year, Pass/Fail

PREREQUISITES: Freshman Guidance

Open to grade 10

DESCRIPTION: Academic skills are reinforced and strategies for test preparation are explored. Students are given opportunities to identify their strengths and interests and to research majors and careers with an emphasis on developing a well-balanced approach to academic and extracurricular activities.

COURSE: COLLEGE PLANNING, 1/8 credit, full year, Pass/Fail

PREREQUISITES: Sophomore Guidance

Open to grade 11

DESCRIPTION: Students familiarize themselves with the entire college planning process including the following: college selection criteria; choosing a college major as it relates to career planning; college visits; ACT/SAT test registration; decision making; financial aid and scholarships; individual conferences with college counselors; and other related topics.



HEALTH AND PHYSICAL EDUCATION

Good health promotes and embraces a balance of one's body, mind, and relationships with others. In health education, the ultimate goal is to help students develop and maintain healthy behaviors while avoiding and reducing health risks. The goal of physical education is to develop individuals who have the knowledge, skills, and confidence to enjoy a lifetime of healthful physical activity.

COURSE: **HEALTH**, ½ credit, semester

PREREQUISITES: None

Open to grade 9

DESCRIPTION: This course addresses decision making, goal setting, and making healthy choices. Other topics include dating violence, depression and suicide, and high risk behaviors. Eligible students receive a certificate of completion from the American Red Cross in CPR, AED, and First Aid.

COURSE: **PHYSICAL EDUCATION I**, ¼ credit, semester

PREREQUISITES: None

Open to grade 9

DESCRIPTION: This course serves as an introduction to a variety of lifetime recreational pursuits, both individual and team activities. Students will be engaged in field hockey, bowling, indoor lacrosse, badminton, ping pong, and slow pitch softball.

COURSE: **PHYSICAL EDUCATION II**, ¼ credit, semester, Early Bird and during the day

PREREQUISITES: PE I

Open to grades 10, 11, 12

DESCRIPTION: This course serves as an additional introduction to lifetime recreational activities. Students will participate in flag football, golf, archery, and fitness.

OFFERED AS EARLY BIRD CLASS beginning at 7:00 am. Limited enrollment. Students will be scheduled 3 days of a week/cycle TBD.



MATHEMATICS

The mathematics department at Ursuline Academy is committed to a core college preparatory curriculum that reflects the standards established by the National Council of Teachers of Mathematics. Students learn the value of mathematics and how to apply mathematical techniques confidently, skillfully, and accurately. Students are challenged to reason mathematically, to become effective critical thinkers, to communicate mathematically, and to become proficient users of technology. Students are encouraged to study mathematics appropriate to their abilities, interests, and ambitions.

COURSE: **ALGEBRA I**, 1 credit, full year

PREREQUISITES: Placement made by entrance test score

Open to grade 9

DESCRIPTION: This course provides the essential foundation for the further study of mathematics. It includes a comprehensive study of linear equations and inequalities, linear systems, properties of exponents, and polynomials and their factors. Students will be introduced to the characteristics and transformations of quadratic functions. Students will create and analyze graphical displays of statistical data.

COURSE: **ALGEBRA I HONORS**, 1 credit, full year, honors

PREREQUISITES: Placement made by entrance test score

Open to grade 9

DESCRIPTION: This course is offered as an alternative to the required Algebra I and will explore content in greater depth. It is recommended to students who have shown superior interest and aptitude. Throughout the course, there is an emphasis on the synthesis and analysis of information.

COURSE: **GEOMETRY**, 1 credit, full year

PREREQUISITES: Algebra I

Open to grade 10

DESCRIPTION: This course is a comprehensive study of plane, solid, and coordinate geometry. Topics in this course include logic and proof, angle relationships, polygons, perimeter, area, and volume, similarity and congruence, right triangle trigonometry, and circle relationships.

COURSE: **GEOMETRY HONORS**, 1 credit, full year, honors

PREREQUISITES: Algebra I or passing the Ursuline Academy Algebra I Placement Test

Open to grades 9, 10

DESCRIPTION: This course is offered as an alternative to the required Geometry and will explore content in greater depth. It is recommended to students who have shown superior interest and aptitude. Throughout the course, there is an emphasis on the synthesis and analysis of information.

COURSE: **ALGEBRA II**, 1 credit, full year

PREREQUISITES: Geometry

Open to grade 11

DESCRIPTION: This course provides a comprehensive study of quadratic, polynomial, exponential, rational, irrational, trigonometric and logarithmic functions. Other topics include systems of equations using matrices; higher order polynomials; probability/statistics; and sequences/series.

COURSE: **ALGEBRA II HONORS**, 1 credit, full year, honors

PREREQUISITES: Geometry, or passing the Ursuline Academy Algebra I and Geometry placement tests

Open to grades 9, 10, 11

DESCRIPTION: This course is offered as an alternative to the required Algebra II and will explore content in greater depth. It is recommended to students who have shown superior interest and aptitude. Throughout the course, there is an emphasis on the synthesis and analysis of information.

COURSE: **PRECALCULUS**, 1 credit, full year

PREREQUISITES: Algebra II

Open to grades 11, 12

DESCRIPTION: This course extends the study of Algebra II function types, offers a comprehensive study of conics, analytical trigonometry, vectors, polar coordinates, and uses sequences as an introduction to the concept of a limit. Students who complete this course will be prepared for a college level math course.

COURSE: **PRECALCULUS HONORS**, 1 credit, full year, honors

PREREQUISITES: Algebra II

Open to grades 10, 11, 12

DESCRIPTION: This course is offered as an alternative to Precalculus and will explore content in greater depth. It is recommended to students who have shown superior interest and aptitude. Throughout the course, there is an emphasis on the synthesis and analysis of information.

COURSE: **ADVANCED PLACEMENT CALCULUS AB**, 1 credit, full year, honors

PREREQUISITES: Precalculus Honors

Open to grades 11, 12

DESCRIPTION: The topics covered in this course are determined by the College Board AP Calculus AB curriculum. This course emphasizes understanding and application of the concepts of limit, derivative, and integral.

COURSE: **ADVANCED PLACEMENT CALCULUS BC**, 1 credit, full year, honors

PREREQUISITES: Precalculus Honors

Open to grades 11, 12

DESCRIPTION: AP Calculus BC is for the exceptional math student who is an independent critical thinker and can manage an accelerated pace of learning. This course contains the entire AP AB Calculus curriculum and continues into the next semester of a typical college calculus course. The College Board will report an AB score in addition to a BC score. These scores will be used by universities to determine credit.

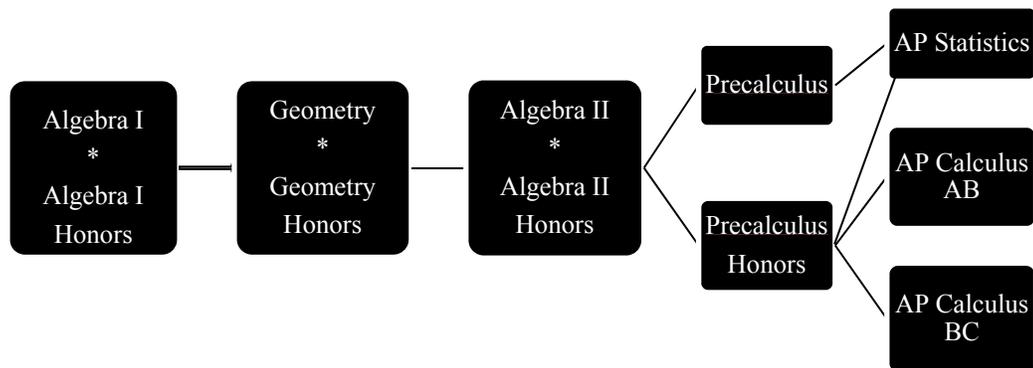
COURSE: ADVANCED PLACEMENT STATISTICS , 1 credit, full year, honors

PREREQUISITES: Precalculus or concurrent enrollment in Precalculus

Open to grades 11, 12

DESCRIPTION: The topics covered in this course are determined by the College Board AP Statistics curriculum. They include collecting data, planning and conducting experiments, graphical and numerical study of patterns, interpreting and summarizing information, probability, probability models, and statistical inference.

The following diagram illustrates the course sequence options necessary to take an AP math course.



Courses that can be taken concurrently:

Precalculus and AP Statistics

AP Calculus and AP Statistics

Geometry Honors and Algebra II Honors (sophomores only)



RELIGIOUS STUDIES

The Religious Studies department seeks to participate in the mission of the Church to transmit the person and message of Jesus Christ. The classes reflect the faith, traditions, and the morality of Roman Catholicism and are structured to aid the students to grow spiritually both as a teen and in their growth toward informed, committed, adult Catholics.

The religious studies program is designed to instruct students about the Christian faith from a Catholic perspective. It is also designed to invite spiritual growth and response in the student, both in the present and as future adults, to God who speaks to them in Scripture, in the Church, in the world today, and in each other. The classes welcome those students who are affiliated with different religious traditions or who do not have a religious tradition.

COURSE: **CHRISTIAN AWARENESS**, 1 credit, full year

PREREQUISITES: None

Open to grade 9

DESCRIPTION: The Christian Awareness course takes its central focus from Jesus' command: "Love God" and "Love your neighbor as yourself." These three tenets (God, neighbor, self) are the objectives pursued. To journey toward this reality, the student will discover herself as a unique creation of God gifted in body, mind, emotion, and spirit to become a whole and holy person. The student will examine her own faith development exploring who she is as a member of the ecclesiastical body of church, past and present, and the role she plays in carrying out the mission of the Church. Further exploration will allow the student to delve into the sacramental and liturgical life of the Church as well as allowing her to explore the call of faith to care for and be of service to others.

COURSE: **THE HEBREW AND CHRISTIAN SCRIPTURES**, 1 credit, full year

PREREQUISITES: Christian Awareness

Open to grade 10

DESCRIPTION: The study of Scripture is about the story of the people of God. Jews and Christians alike share in this very important story of the way God relates to His people. An entire semester is spent in a study of the Hebrew Scriptures. Study of the Christian Scriptures focuses on the four gospels. The student will study the Bible within a contextual interpretation of Scripture in order to come to a better understanding of God's faithfulness even when we turn away, God's saving action, and God's love of each one of us as it was experienced throughout the centuries and told in stories that later became the Bible. To see how God's faithfulness, saving action, and love are experienced in her own life, the student will be asked to tell her own story, making connections between biblical themes and her life.

COURSE: **CHRISTIAN MORALITY**, ½ credit, semester

PREREQUISITES: Scripture

Open to grade 11

DESCRIPTION: This course focuses on character development. Prime questions posed throughout the course are: What kind of person am I becoming? What kind of person do I want to become? The course offers a Christian answer to this question, centering on Jesus as the model of full humanness and looking at the qualities of Jesus as they can be seen in the lives of people past and present and in the students' lives.

COURSE: **CHURCH ISSUES**, ½ credit, semester

PREREQUISITES: Scripture

Open to grade 11, 12

DESCRIPTION: This course will study what it means to be a modern Catholic, called by our vocation. Students will examine their call to faith in light of the many contemporary issues facing Christians today. As students reflect on their call to holiness they will investigate the Church and its place in the world both a global body and an American community.

COURSE: **INTRODUCTION TO PHILOSOPHY**, ½ credit, semester, enrollment may be limited.

PREREQUISITES: Scripture

Open to grades 11, 12

DESCRIPTION: The first half of the course studies Western philosophy with emphasis on Plato and Aristotle, Descartes and Hume, and the existentialists. The second half of the

course calls upon the students for their own personal reflection based on contemporary philosophical literature. Questions will be explored such as: Does language mirror reality? Do we discover quality in our world? Is quality purely a subjective creation? Does quality exist?

COURSE: **FAITHFUL SERVICE LEARNING**, ½ credit, semester

PREREQUISITES: Scripture

REQUIREMENT: Application. Enrollment may be limited.

Open to grades 11, 12

DESCRIPTION: Students in this course will be challenged to work for justice by working with people with various personal, social, or economic challenges. Through committed service and reflection, students see the world from new perspectives and engage with mainstream culture in a new way. This course is designed for self-motivated students who budget time well. Much of the work for class takes place outside the classroom and all written work for the course is completed online several times a cycle. The course explores the call to service that is part of the Christian faith and our Ursuline heritage. Class meets once a cycle with service being scheduled two other days of the cycle. Service may be required outside the school day, in the evening or on the weekend. Students must arrange their own transportation to their service sites.

COURSE: WORLD RELIGIONS, ½ credit, semester

Evening course - Wednesday evenings 6:00 PM – 8:00 PM

PREREQUISITES: Scripture

REQUIRED: Application. Enrollment may be limited.

Open to grades 11, 12

DESCRIPTION: The purpose of this course is to provide students with an opportunity to examine the role of religion in the lives of people throughout the world as well as in their own lives. Several of the world's great religions, Hinduism, Buddhism, Confucianism, Taoism, Shinto, Judaism, Islam and Christianity, will be explored in order to appreciate and respect the differences and similarities from one's own faith tradition as well as to develop an understanding of human beings' response to and interaction with God and the world. Several of the classes will meet at various places of worship in the Cincinnati area.

COURSE: WORLD RELIGIONS, ½ credit, semester

PREREQUISITES: Scripture

Open to grades 11, 12

DESCRIPTION: The purpose of this course is to provide students with an opportunity to examine the role of religion in the lives of people throughout the world as well as in their own lives. Several of the world's great religions, Hinduism, Buddhism, Confucianism, Taoism, Shinto, Judaism, Islam and Christianity, will be explored in order to appreciate and respect the differences and similarities from one's own faith tradition as well as to develop an understanding of human beings' response to

and interaction with God and the world. Students will participate in many hands on learning activities and prayer experiences.

COURSE: DEATH AND CHRISTIAN HOPE, ½ credit, semester

PREREQUISITES: Scripture

Open to grades 11, 12

DESCRIPTION: Suffering and death is explored both as an inescapable reality and as a faith response capable of transforming this human experience into an opportunity for embracing the redemptive power of God. Topics such as aging, death with dignity, suicide, and grief and sorrow will be examined to discover meaning and purpose in our daily lives. The Christian views of life, death, and resurrection will surround a search for the meaning and understanding of the afterlife.

COURSE: EVIL IN THE HUMAN HEART, ½ credit, semester, enrollment may be limited.

PREREQUISITES: Scripture

Open to grades 11, 12

DESCRIPTION: The course begins with an historical view of evil as it appears in the myths, Hebrew and Christian scriptures, and Western culture. Then the course turns to a psychological study of evil with emphasis on the notion of the "shadow" in the depth psychology of Carl Jung. Next Catholic theological teachings are explored in regard to the phenomena of evil, sin, reconciliation, grace, and redemption. Finally, the students discuss a number of case studies and explore the phenomenon of "group evil" and demonic possession.

COURSE: PRAYER & SPIRITUALITY,
½ credit, semester

PREREQUISITES: Scripture

Open to grades 11, 12

DESCRIPTION: This course is intended for the student who desires to grow in relationship with herself and God. Objectives of this course are to heighten sensitivity to God's presence in one's life; to learn through study and experience the different kinds of prayer; and to realize that prayer is natural in the life of a believing person. Integral to the development of a prayer life is an understanding of spirituality and its many expressions. Emphasis is given to the feminine dimension of spiritual formation.

COURSE: THEOLOGY OF THE HUMAN PERSON, ½ credit, semester

PREREQUISITES: Christian Morality

Open to grade 12

DESCRIPTION: This course is a systematic exploration of the human person's experience of life and the search for authentic personhood and its meaning rooted in God. Students should be open to seeking meaning in their own unique life and faith journeys and developing their personal theologies.



The science department at Ursuline Academy emphasizes the interrelationships between science, technology, and our society. Students are prepared to make evidence-based decisions that reflect an understanding of the scientific method. Students will also develop and apply skills for the study of science, including: laboratory methods, scientific inquiry, problem-solving techniques, and logical and mathematical reasoning.

COURSE: **BIOLOGY**, 1 credit, full year,

PREREQUISITES: None

Open to grade 9

DESCRIPTION: This course is designed to teach the student to understand the living things around her. Students will cover the main topics of biology, including biochemistry, ecology, cell structure and function, reproduction, and genetics.

COURSE: **BIOLOGY HONORS**, 1 credit, full year, honors

PREREQUISITES: Placement made by entrance test score

Open to grade 9

DESCRIPTION: This course covers the topics described in Biology and includes plant reproduction, genetic engineering and technology, animal behavior, and scientific research. Emphasis is placed on the application of knowledge through extensive laboratory and group work. A summer assignment is required for this course.

COURSE: **CHEMISTRY**, 1 credit, full year

PREREQUISITES: Biology

Open to grades 10, 11, 12

DESCRIPTION: Chemistry is the study of matter, its properties, and transformations. Students will explore the unifying laws and theories of matter and its basic building blocks and how matter is reorganized through chemical reactions and physical changes.

COURSE: **CHEMISTRY HONORS**, 1 credit, full year, honors

PREREQUISITES: Biology

Open to grades 10, 11, 12

DESCRIPTION: This course covers the topics described in chemistry and also includes using multi-step computational problem solving techniques to study stoichiometry, atomic and molecular structures, gaseous and acid/base equilibrium and kinetics, thermochemistry, electrochemistry, organic chemistry and nuclear chemistry. Summer assignments are required for this course.

COURSE: ENVIRONMENTAL SCIENCE, 1 credit, full year

PREREQUISITES: Biology

Open to grades 10, 11, 12

DESCRIPTION: This course is the study of how the natural world works, how the environment affects society, and how society affects the environment. Understanding interactions between humans and the environment is the first step toward solving environmental issues. Students will investigate global population, ozone depletion, renewable and non-renewable energy resources, biomes and biodiversity, water resources, and the earth and its atmosphere.

COURSE: PHYSICS, 1 credit, full year

PREREQUISITES: Chemistry, Algebra II

Open to grades 11, 12

DESCRIPTION: The goal of physics is to provide an understanding of the physical world through a study of matter, energy, and the interaction between the two. The study of physics seeks to explain rules governing the behavior of the universe. Throughout this course students will learn about motion, forces, energy, momentum, sound, light, electricity, and magnetism.

COURSE: PHYSICS HONORS, 1 credit, full year, honors

PREREQUISITES: Chemistry, Algebra II or concurrent enrollment in Algebra II Honors

Open to grades 11, 12

DESCRIPTION: This course covers the topics described in Physics, and includes rotational dynamics, electrical energy and electromagnetism. Emphasis is placed on developing the application of knowledge through extensive laboratory work and projects. Summer assignments are required in this course.

COURSE: HUMAN ANATOMY AND PHYSIOLOGY, 1 credit, full year

PREREQUISITES: Chemistry

Open to grades 11, 12

DESCRIPTION: Anatomy and Physiology is an introduction to the structure and functions of the human body. It also addresses current issues relating to health and disease. Building off a working knowledge of cells and chemistry, the course will cover the major systems of the body. Students are required to participate in various laboratory procedures, including dissections.

COURSE: HUMAN ANATOMY AND PHYSIOLOGY HONORS, 1 credit, full year, honors

PREREQUISITES: Chemistry

Open to grades 11, 12

DESCRIPTION: This course covers the topics covered in Anatomy and Physiology and explores the organ systems more deeply with a stronger emphasis on physiological processes. The course also requires long term projects integrating multiple body systems. Emphasis is placed on analysis of diseases and disease states.

COURSE: FORENSIC SCIENCE, 1 credit, full year

PREREQUISITES: Chemistry

Open to grades 11, 12

DESCRIPTION: Forensic Science is the study of scientific tests and techniques needed to investigate crimes and establish facts in a court of law. This lab course includes topics in crime scene investigation, death investigation, forensic laboratory skills, trace evidence investigation, ballistic and firearm investigation, document examination, digital sleuthing, and forensic psychology. Emphasis will be placed on problem solving, detection techniques, and interdisciplinary study.

COURSE: ADVANCED PLACEMENT BIOLOGY, 1 credit, full year, honors

PREREQUISITES: Chemistry

Open to grades 11, 12

DESCRIPTION: The topics covered in this course are determined by the College Board AP Biology curriculum. Students will develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. Summer assignments are required for this course.

COURSE: ADVANCED PLACEMENT CHEMISTRY, 1 credit, full year, honors

PREREQUISITES: Chemistry Honors, Algebra II Honors,

Open to grades 11, 12

DESCRIPTION: This course follows the curriculum of the College Board which places emphasis on developing advanced

inquiry and reasoning skills and incorporating these in problem solving and in laboratory experiments. Students will study the structure of atoms and molecules, a qualitative and quantitative analysis of chemical reactions, chemical bonding, energy changes, states of matter, and organic chemistry. Summer assignments are required for this course.

COURSE: ADVANCED PLACEMENT PHYSICS C, 1 credit, full year, honors

PREREQUISITES: Physics Honors; Calculus (may be taken concurrently)

Open to grade 12

DESCRIPTION: AP Physics C is comprised of two separate courses: Mechanics and Electricity/ Magnetism. Mechanics will cover the topics of kinematics; Newton's laws of motion; work, energy and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Electricity/Magnetism will cover the topics of electrostatics; conductors, capacitors and dielectrics; electric circuits; magnetic fields; and electromagnetism. Methods of calculus are used in formulating physical principles and in applying them to physical problems. Emphasis is placed on solving challenging problems and completing a number of open-ended laboratory experiments. Summer assignments are required for this course.

COURSE: INTRODUCTION TO ENGINEERING , 1 credit, full year, honors, Early Bird

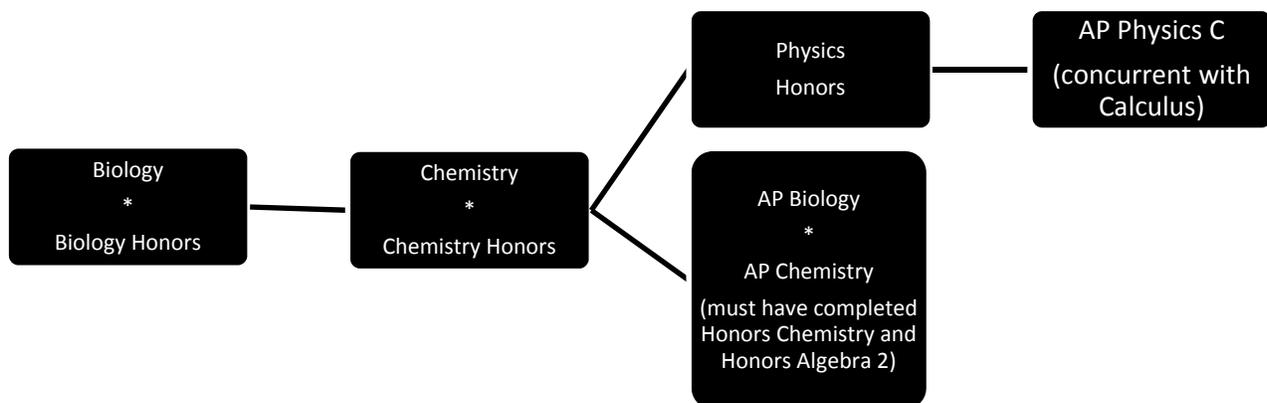
PREREQUISITES: Physics or concurrent enrollment in Physics Honors

REQUIREMENT: Application. Limited enrollment.

Open to grades 11, 12

DESCRIPTION: Engineering combines the fields of science and mathematics to solve problems using the most efficient, practical, and cost effective approach. The ability to translate an abstract idea into reality distinguishes engineering from the other fields of science and mathematics. Students will be introduced to the skills of technical drawing, technical report writing, and utilization of CAD software. Through the completion of engineering projects students will learn the importance of teamwork, problem solving, oral presentation, and design process. College credit is available through the University of Cincinnati.

The following diagram illustrates the course sequence options necessary to take an AP science course.





SOCIAL STUDIES

The Social Studies curriculum provides young women the opportunity to gain knowledge, to develop intellectual skills, and to assume a sense of responsibility as members of their community, nation, and world. Core courses encompassing historical, geographic, economic and political studies are required to encourage each student to achieve this purpose.

The Social Studies program provides an opportunity to explore a range of cultures, by educating students in both the historical roots and contemporary issues surrounding political, economic, legal, social and psychological components of the world. It equips students to assess social and political issues, evaluate evidence and data, and effectively organize pertinent material. Additionally, students will develop skills in inquiry methods, research writing, public speaking and debating.

COURSE: **WORLD HISTORY**, 1 credit, full year

PREREQUISITES: None

Open to grade 10

DESCRIPTION: This course is a survey of the histories of Europe, the Middle East, and Asia, as well as some limited history of North America, Latin America and Africa. World History begins in the European Middle Ages and ends with the termination of the Cold War. Students will examine ancient and modern events of the world over the last 1500 years which have brought us to our shared present.

COURSE: **ADVANCED PLACEMENT WORLD HISTORY**, 1 credit, full year, honors

PREREQUISITES: None

REQUIREMENTS: Enrollment may be limited

Open to grade 10

DESCRIPTION: This course is an advanced survey of world history from pre-written history through contemporary times. Students will explore the broad themes of history and cultural groups throughout all the regions of the world. Course themes include humans' interaction with their environment, the development and interaction of cultures, state-building, expansion and conflict, the creation, expansion and interaction of economic systems, and the development and transformation of social structures. Summer assignments are required for this course.

COURSE: **U.S. HISTORY**, 1 credit, full year

PREREQUISITES: World History or AP World History

Open to grade 11

DESCRIPTION: United States History is a survey of the leading aspects of American History from American Revolution to and including events in the 21st century. Attention is given to political issues, institutions, political parties, leadership, and

diplomatic and constitutional questions, as well as economic, social, and cultural trends. This course also focuses on what is unique in the American historical experience and relates American history to the broader global setting in the world today.

COURSE: ADVANCED PLACEMENT U.S. HISTORY, 1 credit, full year, honors

PREREQUISITE: World History or AP World History

Open to grade 11

DESCRIPTION: This class provides students with the knowledge and analytical skills to examine the subject of United States history from Pre-Columbian societies through today. Summer assignments are required for this course.

COURSE: AMERICAN STUDIES, 2 credits, full year, English honors and Social Studies, honors, Early Bird plus 2 mods during the day.

PREREQUISITE: English II, World History or AP World History

REQUIREMENTS: Application. Enrollment limited to 28 students.

Open to grade 11

DESCRIPTION: This course uses a team-taught, interdisciplinary, integrated and thematic approach combining American History and American Literature. Cooperative learning, inquiry and research are used to discover how literature influenced history and how history influenced literature in America. This course offers many opportunities for creative group projects. Summer assignments are required for this course.

COURSE: AMERICAN GOVERNMENT, ½ credit, semester

PREREQUISITES: U.S. History, AP U.S. History, or American Studies

Open to grade 12

DESCRIPTION: This course covers foundational documents, citizen rights, and the powers and functions of the federal government. Other topics include federalism, checks and balances, separation of powers, political ideology, campaigns, and political parties. Students will also examine current political issues.

COURSE: ADVANCED PLACEMENT AMERICAN GOVERNMENT, ½ credit, 2nd semester only, honors

PREREQUISITES: U.S. History, AP U.S. History, or American Studies

Open to grade 12

DESCRIPTION: This course examines the functions and powers of the federal and state governments. Other topics include the role of political parties and campaigns; comparisons of parliamentary and presidential systems of government; and the interpretation and application of constitutional rights. Contemporary political issues are discussed throughout the course.

COURSE: **ECONOMICS**, ½ credit, semester

PREREQUISITES: World History or AP World History

Open to grades 11, 12

DESCRIPTION: The goal of this course is to enable students to understand and evaluate current economic issues, trends, and policies. The course teaches basic economic models and analytical skills. Students are also prepared for their place in the economy through an introduction to personal finance and investments.

COURSE: **ADVANCED PLACEMENT ECONOMICS**, 1 credit, full year, honors

PREREQUISITES: World History or AP World History

Open to grades 11 and 12

DESCRIPTION: This course is the study of the economy from the perspective of consumers and producers (microeconomics) and the economy as a whole (macroeconomics). This course will prepare students to take two AP exams, one in microeconomics and the other in macroeconomics. A separate fee is required for each exam.



WORLD LANGUAGES

The World Languages curricula enable students to communicate effectively and accurately in a second language. Courses emphasize communicative competence in writing and speaking the target language as well as the understanding of the culture and literature of the countries in which it is spoken. The department provides opportunities for students to participate in activities and events with those of other linguistic backgrounds.

COURSE: **FRENCH I**, 1 credit, full year

PREREQUISITES: None

Open to grades 9, 10, 11, 12

DESCRIPTION: This course is an introduction to the French language focusing on the four language skills: listening, speaking, reading, and writing. Basic grammar is introduced and practiced on a daily basis.

COURSE: **FRENCH II**, 1 credit, full year

PREREQUISITES: French I or passing the Ursuline Academy French placement test

Open to grades 9, 10, 11, 12

DESCRIPTION: The class utilizes grammar and vocabulary learned in French I. The two major past tenses will be introduced. Grammar and sentence structure will increase in complexity. Listening comprehension will be improved through authentic Francophone sources.

COURSE: **FRENCH II HONORS**, 1 credit, full year, honors

PREREQUISITES: French I or passing the Ursuline French placement test

Open to grades 9, 10, 11, 12

DESCRIPTION: This course is offered as an alternative to French II. It is recommended to students who have shown superior interest

and aptitude for language learning and have a strong work ethic.

COURSE: **FRENCH III**, 1 credit, full year

PREREQUISITES: French II

Open to grades 10, 11, 12

DESCRIPTION: This course utilizes skills and vocabulary from the first two years of French. Literacy skills will be emphasized through short reading selections. Writing skills will continue to be improved by including more complex grammatical structures. Listening comprehension will be continue to be improved through authentic Francophone sources.

COURSE: **FRENCH III HONORS**, 1 credit, full year, honors

PREREQUISITES: French II

Open to grades 10, 11, 12

DESCRIPTION: This course is an alternative to French III. Literacy skills will be improved by reading challenging authentic French materials. More frequent and longer writing assignments using increasingly complex grammatical structures and sophisticated vocabulary will be required. It is recommended to students who have shown superior interest and aptitude for language

learning in the previous two levels and have a strong work ethic.

COURSE: FRENCH IV HONORS, 1 credit, full year, honors

PREREQUISITES: French III

Open to grades 11, 12

DESCRIPTION: This course will improve proficiency in reading, writing, listening speaking, vocabulary, grammar, general knowledge of the Francophone world. This course will include the reading and discussion of “Le Petit Prince” and other authentic materials. There will be a continued emphasis on comprehension of authentic French sources.

COURSE: ADVANCED PLACEMENT FRENCH, 1 credit, full year, honors

PREREQUISITES: French III

Open to grades 11, 12

DESCRIPTION: The AP French language course promotes proficiency in French communication. Students will engage in conversations and express and exchange ideas using spoken and written French. Students will interpret written and spoken French on a variety of cultural themes. It is expected that students are proficient in grammar structures taught at prior French courses.

COURSE: GERMAN I, 1 credit, full year

PREREQUISITES: None

Open to grades 9, 10, 11, 12

DESCRIPTION: This course is an introduction to German language and cultures that focuses on developing a reasonable degree of communicative

competency and proficiency in the four language skills: speaking, understanding spoken German, reading, and writing.

COURSE: GERMAN II, 1 credit, full year

PREREQUISITES: German I

Open to grades 9, 10, 11, 12

DESCRIPTION: German II builds upon the concepts and skills introduced in German I. This course emphasizes the mastery of the conversational tense (the present perfect).

COURSE: GERMAN III, 1 credit, honors, full year

PREREQUISITES: German II

Open to grades 10, 11, 12

DESCRIPTION: This course is primarily taught in German and the speaking and writing requirements are intensive. German history of the late 19th and the 20th centuries is examined through films and texts, and contemporary literary selections are covered. Speaking assignments and creative writing/visual reports are frequently required.

COURSE: GERMAN IV, 1 credit, honors, full year

PREREQUISITES: German III

Open to grades 11, 12

DESCRIPTION: German IV is an intensification and culminating experience of learning and mastering German at the high school level. It also provides a thorough preparation for the study of German at the university level. Oral reports, weekly writing assignments and challenging reading assignments complement the fourth-year textbook that is entirely in German. German

language film will supplement both language and cultural-history instruction.

COURSE: LATIN I, 1 credit, full year

PREREQUISITES: None

Open to grades 9, 10, 11, 12

DESCRIPTION: This course introduces the student to basic grammar, syntax, and forms of the Latin language. It also provides an insight into ancient Roman history, mythology, and culture from the reading selections in the text. The focus of the readings will be the daily life of a Roman family. By the end of the first year, the student should be able to write in Latin and translate short Latin passages to English. Through the study of vocabulary, the student will develop the ability to see relationships between Latin and English words.

COURSE: LATIN II, 1 credit, full year, honors

PREREQUISITES: Latin I

Open to grades 9, 10, 11, 12

DESCRIPTION: Basic skills in the grammar, syntax, and forms of the Latin language are maintained and further developed. There is continued emphasis on Roman culture and history through the reading of passages about Roman family life. By the end of the second year, the student should be able to write in Latin using complex sentence structures and read continuous Latin passages about the adventures of a Roman family. Students will continue the study of English words derived from Latin vocabulary.

COURSE: LATIN III, 1 credit, full year, honors

PREREQUISITES: Latin II

Open to grades 10, 11, 12

DESCRIPTION: After completing *Ecce Romani*, Book II, students will begin *Ecce Romani*, Book III, reading exclusively the works of original Latin prose authors and be introduced to broader aspects of the Latin-speaking world. Expanded possibilities for discussion of important political, cultural, and literary issues are presented. A thorough review of grammar is provided, in addition to new grammar concepts, and students will continue to build vocabulary through readings. During the fourth quarter, students will be introduced to Latin versification and read excerpts of Latin poets such as Vergil, Ovid, and Catullus as time allows. Students will also read excerpts from *Harrius Potter et Philosophi Lapis*.

COURSE: ADVANCED PLACEMENT LATIN, 1 credit, full year, honors

PREREQUISITES: Latin III

Open to grades 11, 12

DESCRIPTION: This course follows the AP Latin syllabus and is devoted to translating selections from Caesar's *De Bello Gallico* and Vergil's *Aeneid*. Time is also given to metrical reading, discussion of historical/cultural content and background, figures of speech, and poetic syntax. The time of the late Roman Republic and Principate of Augustus is the chief historical and cultural concern. Learning activities for this course include translating Latin literature with complete comprehension of the text, scanning lines of poetry, analyzing the text, and expanding English vocabulary. Summer

reading for this course is the *Aeneid* in translation.

COURSE: LATIN V, 1 credit, full year, honors

PREREQUISITES: AP Latin

DESCRIPTION: This course is designed for students who will have successfully completed AP Latin as juniors and wish to continue their study of the language. This course emphasizes reading ancient literature; some attention will also be given to Latin versification, composition, and historical and literary background. The literature read will comprise primarily selections of Ovid's *Metamorphoses*. Excerpts of other ancient authors, such as Cicero, Livy, Catullus, and Horace, may also be read, depending on the interest of the students and instructor.

COURSE: SPANISH I, 1 credit, full year

PREREQUISITES: None

Open to grade 9, 10, 11

DESCRIPTION: In this course the major emphasis is on the comprehension, acquisition, use of vocabulary, and grammar structures. Listening speaking, reading, writing skills, and culture are introduced.

COURSE: SPANISH I HONORS, 1 credit, full year, honors

PREREQUISITES: Placement made by entrance test score or the Ursuline Academy Spanish Placement Test score

Open to grades 9, 10, 11

DESCRIPTION: This course is offered as an alternative to Spanish I. Designed for those students who demonstrate advanced ability in language acquisition, much of this course is

conducted in Spanish, with English being used to explain new concepts. Emphasis is on the comprehension, acquisition, and use of vocabulary and basic language structures that are necessary to all communication skills – listening, speaking, reading, and writing.

COURSE: SPANISH II, 1 credit, full year

PREREQUISITES: Spanish I or passing the Ursuline Academy Spanish placement test

Open to grades 9, 10, 11, 12

DESCRIPTION: This course builds on important grammatical concepts from Spanish I while expanding vocabulary, grammar, and cultural understanding. Communication skills are further developed while more complicated grammatical structures are added for creative communicative activities. Much of this course is conducted in Spanish.

COURSE: SPANISH II HONORS, 1 credit, full year, honors

PREREQUISITES: Spanish I or passing the Ursuline Academy Spanish placement test

Open to grades 9, 10, 11, 12

DESCRIPTION: This course is offered as an alternative to Spanish II. Most of this course is conducted in Spanish, with English being used to explain new concepts. While communication skills are further developed and more complicated grammatical structures are introduced, emphasis is on a broader application of the course content in authentic communicative activities and assessments. Students are expected to communicate in Spanish.

COURSE: **SPANISH III**, 1 credit, full year

PREREQUISITES: Spanish I and II

Open to grades 10, 11, 12

DESCRIPTION: This course revisits and reviews all grammar previously presented and several new linguistic structures are introduced and developed. Spanish III emphasizes mastery of the four language skills (reading, writing, speaking, and listening). Authentic literature and poetry are utilized. This course is conducted in Spanish.

COURSE: **SPANISH III HONORS**, 1 credit, full year, Honors

PREREQUISITES: Spanish I, II

Open to grades 10, 11, 12

DESCRIPTION: This course is offered as an alternative to Spanish III. This course is for students who have demonstrated high ability and interest in Spanish. All language skills are reviewed and further developed at a faster pace. There is an increased emphasis on speaking and writing more fluently and correctly. New linguistic structures are introduced and developed. Authentic literature and poetry are utilized. Students are required to actively communicate in Spanish.

COURSE: **SPANISH IV HONORS**, 1 credit, full year, Honors

PREREQUISITES: Spanish III

Open to grades 10, 11, 12

DESCRIPTION: This course emphasizes communication, culture, and grammar. Research, complex reading, listening activities, and oral presentations are required. This course is conducted in Spanish in all aspects.

COURSE: **ADVANCED PLACEMENT SPANISH**, 1 credit, full year, honors

PREREQUISITES: Spanish III

Open to grades 11, 12

DESCRIPTION: This is a college level course, fully conducted in Spanish. AP Spanish prepares the student for the AP Spanish exam, while emphasizing mastery in all communication skills. At this level students are expected to be independent learners who will use previous knowledge to extend their abilities into interaction with both historical and current issues in the Spanish-speaking world. Authentic texts and media are utilized.



GENERAL ELECTIVES

COURSE: CREATIVE WRITING, ½ credit, semester

PREREQUISITES: English I

Open to grades 10, 11, 12

DESCRIPTION: This course focuses on imaginative writing, particularly in the genres of fiction, non-fiction, and poetry. The craft of creative writing is presented in theory: students study the styles of other writers and learn new writing techniques. The craft of creative writing is also presented in practice: students demonstrate and fine-tune the writing process of pre-writing, drafting, revising, and editing.

COURSE: PUBLIC SPEAKING, ½ credit, semester

PREREQUISITES: None

Open to all grades

DESCRIPTION: This course introduces the theory and practice of public speaking. Theoretical topics include basic communication, verbal communication, nonverbal communication, listening strategies, topic selection, research techniques, and speech organization. Practical topics include the art of delivery regarding information, persuasion, interpretation and improvisation. These topics are supplemented with a number of opportunities to research, write and deliver speeches.

COURSE: YEARBOOK, ½ credit, full year

PREREQUISITES: Application, coursework in honors English, Technical Communications, Graphic Design, or Photography

Open to grades 10, 11, 12

DESCRIPTION: This course is a basic survey of journalism principles including the writing and design skills needed to create and produce Ursuline's yearbook, *Pawprints*. Students study the practical topics of how to create page layouts, manipulate digital pictures, write both feature stories and expanded captions, and use a web-based design program to produce pages for the yearbook.

COURSE: CARDIO, CORE, AND MORE, ¼ credit, semester,

PREREQUISITES: PE I, PE II

Open to grades 11, 12

DESCRIPTION: This fitness class incorporates many different types of movement. The cardio section includes cardio dance, Zumba, step aerobics, fitness walking and basic kickboxing. The mind-body training will include yoga and Pilates. Free weights, resistance bands, gliding disks, and stability balls will be introduced to strengthen the major muscle groups. The course emphasizes proper and safe training techniques.

COURSE: INTRODUCTION TO ANCIENT GREEK, 1 credit, full year, honors

PREREQUISITES: None

Open to grades 11, 12

DESCRIPTION: This course provides an introduction to ancient Greek of the Attic dialect. The focus will be on learning to read the language, with emphasis on grammar and vocabulary. Some attention will be given to English derivatives rooted in ancient Greek, as well as the language's cultural milieu, including mythology, history and daily life. Some knowledge of Latin is helpful but not required. Depending on the background and interests of the students, the course may include comparative studies between Latin and ancient Greek, as well as excerpts of Latin literature. The availability of this course is contingent on the staffing needs for Latin courses.

COURSE: INTRODUCTION TO SOCIOLOGY, ½ credit, semester.

PREREQUISITES: None

Open to grades 11, 12

DESCRIPTION: This course provides a broad overview of sociology and how it applies to everyday life. Major theoretical perspectives and concepts are presented, including sociological imagination, culture, deviance, inequality, social change, and social structure. Students will also explore the influence of social class social, social institutions, and key issues that are being studied by contemporary sociologists.

COURSE: INTRODUCTION TO PSYCHOLOGY, ½ credit, semester (offered 2018-2019 school year)

PREREQUISITES: None

Open to grades 11, 12

DESCRIPTION: A survey course which looks at the origins of psychological studies of behavior from a scientific perspective. Topics to be covered include but are not limited to basic principles, consciousness including sleep and dreams, Freudian theories, memory and learning, developmental psychology, abnormal psychological disorders, personality, social psychology and forms of psychological therapy. This course is especially relevant in today's world that calls for an understanding of behavior and its subsequent problems.

COURSE: ADVANCED PLACEMENT PSYCHOLOGY, 1 credit, full year, honors

PREREQUISITES: None

Open to grade 12

This course presents a range of topics, including the physiology of the body and brain. Additional areas of study include classical and operant conditioning, the role of genetics and the environment on human development, learning, memory, personality, mental illness and treatment therapies, and the role of stress. There is an analysis of the various subsets of psychological theory and methodologies, including Freudian psychoanalysis, behaviorism, cognitive psychology, humanism, the socio-cultural approach, evolutionary psychology and Gestalt psychology. Also included are procedures found in the scientific method of research, as it applies to psychological experiments.

COURSE: ADVANCED PLACEMENT HUMAN GEOGRAPHY, 1 credit, full year, honors

PREREQUISITES: None

Open to grades 11, 12

DESCRIPTION: This course will introduce 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. This course will help students understand how cultural, economic and political systems relate to the distribution of human activities, the nature of places, and people's interaction with their environment.

Students will also learn about the methods and tools geographers use in their research and practice.

COURSE: WOMEN IN THE PUBLIC SPHERE, ½ credit, semester

PREREQUISITES: None

Open to grades 11, 12

DESCRIPTION: This course seeks to determine the ways in which women experience life in the public sphere. Students will analyze current debates regarding gender and leadership in academic primary and secondary sources and the popular press, as well as discuss the opportunities and challenges facing women today.



SUMMER COURSES

COURSE: GEOMETRY HONORS, 1 credit, honors

Monday, June 5, 2017 – Friday, July 14, 2017

8:30 am – 11:30 am (no class July 3rd and July 4th)

PREREQUISITE: Algebra I

Open to Grade 10

Minimum: 8 students

Cost: \$900

DESCRIPTION: This course is designed for the student with superior aptitude and work ethic wanting to advance to Algebra II Honors in sophomore year.

This condensed summer course will cover all of the topics in our UA Geometry Honors course. Students will be expected to complete daily homework assignments, projects, Geometers Sketchpad activities, TI-nSpire activities, quizzes, tests, and two exams.

Instructors: Mrs. Downs and Mrs. Kahan

COURSE: PHOTOGRAPHY, ½ credit, fine arts elective

Monday, June 5, 2017 – Friday, June 23, 2017 from 8:30 am – 10:30 am, or

Monday, June 5, 2017 – Friday, June 23, 2017 from 10:45 am – 12:45 pm

Limit: 12 students/session

Cost: \$375

DESCRIPTION: Students learn to express artistic ideas using a digital camera. This course will be a mixture of lecture, discussion, research, writing, and fieldwork. Students will explore the history of photography with a special emphasis on photojournalism and portraiture. Students will also complete a photo essay expressing ideas about their community and their place in it.

Instructor: Ms. Helen Rindsberg, Art Teacher and Administrator since 1972.

COURSE: ADVANCED PHOTOGRAPHY, ½ credit, fine arts elective, independent study

May – October 2017

PREREQUISITES: Photography

Limit: 6 students

Cost: \$375

DESCRIPTION: Students will build on skills developed in the UA Summer Photography class. They will improve their skills in creating and editing photographs, and critiquing their own photographs and those of other students. Students will create individual photographs and a photography portfolio for submission to the Scholastic Art Awards and scholarship competition. There will be 20 hours of classroom discussion, presentations and critiques, 3 field trips and a final portfolio review. The students will complete at least 40 hours of independent work taking photographs, editing and

preparing presentations of their work for critiques, writing a research report, keeping a weekly journal and preparing a portfolio on a theme of their choice.

Instructor: Ms. Helen Rindsberg, Art Teacher and Administrator since 1972.

COURSE: HANDBUILDING IN CLAY, ½ credit

Monday, June 5, 2017 – Friday, June 23, 2017 from 9:00 am to 12:00 pm

PREREQUISITES – Fundamentals of Art

Open to grades 10, 11, 12

Cost: \$375

DESCRIPTION: This course will explore basic handbuilding techniques in the medium of clay. Students will produce pinched, coiled, and slab-built ceramic forms. Students will also create both functional and sculptural projects and learn techniques of decoration such as stamps, sgraffito, and painting with glazes. Historical aspects of ceramics will be analyzed and used as sources of inspiration for personal projects.

Instructor: Ms. Kara Sheldon

COURSE: THE MYSTICS, ½ credit

Monday, June 5, 2017 – Friday, June 23, 2017 from 9:00 am to 11:00 am

PREREQUISITES: Scripture

Open to grades 11, 12

Limit: 20 Students

Cost: \$375

DESCRIPTION: The course will begin with an understanding of mysticism within its context in history. Students will examine texts of Christian mystics from the Early

Period of the Church, the Medieval and Reformation Period, and the Modern Period. Through reading and reflecting, the students will seek to understand the authors' mystical experiences of God. Finally, each student will be challenged to engage the texts in a way so that she may be inspired in her own faith journey. **Note: Students must be present on the last day of class to earn credit for the course.**

Instructor: Ms. Mary Beth Weller

COURSE: VERTEBRATE ZOOLOGY, 1 credit, science elective

June 7, 2017 to July 7, 2017

Meets Wednesdays 1:00-4:00 Thursdays 1:00-4:00, and Fridays 8:00-4:00

PREREQUISITES: Biology

Open to grades 10, 11, 12

Limit: 20 students

Cost: \$900

DESCRIPTION: Students will explore the interrelationship between vertebrates and their environments. Students will trace the evolutionary pathway to vertebrates and the radiation of vertebrates into their current diversity. Students will examine the major vertebrate phyla with emphasis on structure and function and the characteristics of importance for distinguishing between groups. Students will gain laboratory experience to further their investigations. This course will include online work, research and presentations, 4 dissections, and 4 field trips.

COURSE: ECOREGIONS OF NORTH AMERICA, ½ credit, science elective

June 5-15, 2017 and Aug 10, 2017

Meets Monday-Thursday 9:00-12:00

PREREQUISITE: Biology

Open to grades 10, 11, 12

Limit: 20 students

Cost: \$375

Students will explore the major terrestrial ecosystems of North America. Students will examine the environment which bounds these ecosystems and the ecological characteristics that define patterns of diversity. Students will correlate the distribution of vegetation types to geography, temperature, and moisture availability. Students will develop an awareness of the diversity of vegetation and wildlife which it supports in our natural areas. Students will identify conservation needs across landscape mosaics. Students develop research skills through the investigation of an ecoregion of their choice. This course will include lecture and discussion, online work, research, a field trip, and a student presentation of the ecoregion of their choice.



GRADE 9

- Students are required to carry 6 credits per year in addition to physical education and guidance requirements
- Subjects required in Grade 9 are indicated by the √ and gray-shaded rows
- An overview of graduation requirements can be found in the Curriculum Guide
- Specific information regarding pre-requisites and 2017-2018 options can be found in the course descriptions
- Students who plan to enroll in multiple science classes, two languages or several AP courses in grades 10, 11, or 12, may find it necessary to enroll in early bird, evening or summer courses.

SUBJECT	REQUIRED IN GRADE 9	MINIMUM CREDITS REQUIRED IN GRADE 9	TOTAL CREDITS REQUIRED FOR GRADUATION	REQUIRED GRADE 9 COURSES	COURSE REQUEST OPTIONS
English	√	1	4	English I or English I HNS	
Math	√	1	4		Algebra I Geometry HNS Algebra II HNS
Religious Studies	√	1	4	Christian Awareness	
Social Studies			3		
Science	√	1	3	Biology or Biology HNS	
World Languages	√	1	2		French I French II German I German II Latin I Latin II Spanish I Spanish II
Physical Education	√	¼	½	PE 1	
Health	√	½	½	Health	
Guidance	√	⅛	⅜	Freshman Guidance	
Fine Arts Electives			1		Fundamentals of Art Intro to Tech Comm. Intro to Media Prod. Women's Chorus Instrumental Music Sinfonia Beginning Guitar Beginning Piano
General Electives					Public Speaking



GRADE 10

- Students are required to carry 6 credits per year in addition to physical education and guidance requirements
- Subjects required in Grade 10 are indicated by the √ and gray-shaded rows
- An overview of graduation requirements can be found in the Curriculum Guide
- Specific information regarding pre-requisites and 2017-2018 options can be found in the course descriptions
- Students who plan to enroll in multiple science classes, two languages or several AP courses in grades 10, 11, or 12, may find it necessary to enroll in early bird, evening or summer courses.

SUBJECT	REQUIRED IN GRADE 10	MINIMUM CREDITS REQUIRED IN GRADE 10	TOTAL CREDITS REQUIRED FOR GRADUATION	REQUIRED GRADE 10 COURSES	COURSE REQUEST OPTIONS
English	√	1	4	English II or English II HNS	
Math	√	1	4		Geometry Precalculus Algebra II
Religious Studies	√	1	4	Scripture	
Social Studies	√	1	3	World History or AP World History	
Science	√	1	3		Chemistry Environmental Science
World Languages	√	1	2		French II French III German II German III Latin II Latin III Spanish II Spanish III
Physical Education			½		
Health			½		
Guidance	√	1/8	3/8	Sophomore Guidance	
Fine Arts Electives			1		Fundamentals of Art Design Drawing & Painting Enameling Handbuilding in Clay ADV. Handbuilding in Clay Mixed Media Set Design Intro to Graphic Design Intro to Tech Comm Intro to Web Design Intro to Media Prod. TV Production I Video Prod I, II Women's Chorus A Cappella Show Choir Instrumental Music Sinfonia Beginning Guitar Beginning Piano Drama I
General Electives					Public Speaking Creative Writing Yearbook



GRADE 11

- Students are required to carry 6 credits per year in addition to physical education and guidance requirements
- Subjects required in Grade 11 are indicated by the √ and gray-shaded rows
- An overview of graduation requirements can be found in the Curriculum Guide
- Specific information regarding pre-requisites and 2017-2018 options can be found in the course descriptions
- Students who plan to enroll in multiple science classes, two languages or several AP courses in grades 10, 11, or 12, may find it necessary to enroll in early bird, evening or summer courses.

SUBJECT	REQUIRED IN GRADE 11	MINIMUM CREDITS REQUIRED IN GRADE 11	TOTAL CREDITS REQUIRED FOR GRADUATION	REQUIRED GRADE 11 COURSES	COURSE REQUEST OPTIONS
English	√	1	4	English III, English III HNS, American Studies or AP English Composition	
Math	√	1	4		Algebra II Precalculus HN AP Statistics AP Calculus AB AP Calculus BC
Religious Studies	√	1	4	Christian Morality + ½ credit option	Church Issues Evil in the Human Heart Faithful Service Learning Death & Christian Hope World Religions Intro to Philosophy Prayer & Spirituality
Social Studies	√	1	3	US History, AP US History or American Studies	Economics AP Economics
Science	√	1	3		Chemistry AP Chemistry Physics Intro to Engineering Anatomy/Physiology AP Biology Environmental Science Forensic Science
World Languages			2		French III German III Latin III Spanish III French IV German IV Latin IV Spanish IV AP French AP Latin AP Spanish
PE			½		
Health			½		
Guidance	√	1/8	3/8	College Planning	
Fine Arts Electives			1		Fundamentals of Art Design Drawing & Painting Enameling Handbuilding in Clay ADV. Handbuilding in Clay Mixed Media Set Design Advanced Studio Intro to Graphic Design Intro to Tech Comm Intro to Web Design Intro to Media Prod. TV Production I, II Video Prod I, II Women's Chorus A Cappella Show Choir Instrumental Music Sinfonia Beginning Guitar Beginning Piano Music Theory Drama I
General Electives					Public Speaking Creative Writing Cardio Core & More Yearbook Women in the Public Sphere Intro to Sociology AP Human Geography Intro to Ancient Greek



GRADE 12

- Students are required to carry 6 credits per year in addition to physical education and guidance requirements
- Subjects required in Grade 12 are indicated by the √ and gray-shaded rows
- An overview of graduation requirements can be found in the Curriculum Guide
- Specific information regarding pre-requisites and 2017-2018 options can be found in the course descriptions
- Students who plan to enroll in multiple science classes, two languages or several AP courses in grades 10, 11, or 12, may find it necessary to enroll in early bird, evening or summer courses.

SUBJECT	REQUIRED IN GRADE 12	MINIMUM CREDITS REQUIRED IN GRADE 12	TOTAL CREDITS REQUIRED FOR GRADUATION	REQUIRED GRADE 12 COURSES	COURSE REQUEST OPTIONS
English	√	1	4	English IV, English IV HNS, or AP English Literature	
Math	√	1	4		Precalculus AP Statistics AP Calculus AB AP Calculus BC
Religious Studies	√	1	4		Evil in the Human Heart Faithful Service Learning Death & Christian Hope Literature for the Spirit Theology of the Human Person World Religions Intro to Philosophy Prayer & Spirituality Philosophy II Church Issues
Social Studies	√	1	3	Government or AP Government Economics or AP Economics	
Science			3		Chemistry AP Chemistry Physics AP Physics Forensic Science Anatomy/Physiology AP Biology Environmental Science Intro to Engineering
World Languages			2		French IV German IV Spanish IV AP French AP Latin Latin V AP Spanish
PE			1/2		
Health			1/2		
Guidance			3/8		
Fine Arts Electives			1		Fundamentals of Art Design Drawing & Painting Enameling Handbuilding in Clay ADV. Handbuilding in Clay Mixed Media Set Design Advanced Studio AP Drawing AP 2-D Design Intro to Graphic Design Intro to Tech Comm Intro to Web Design Intro to Media Prod. TV Production I, II Video Prod I, II ADV. Film Studio Women's Chorus A Cappella Show Choir Instrumental Music Sinfonia Beginning Guitar Beginning Piano Music Theory Drama I
General Electives					Public Speaking Creative Writing Cardio Core & More Yearbook Women in the Public Sphere Intro to Sociology AP Human Geography Intro to Ancient Greek