



Men for Others

2018-2019
COURSE CATALOG

TABLE OF CONTENTS

GRADUATION REQUIREMENTS	3
COLLEGE PREP CURRICULUM	4
LETTER TO JUNIORS	5
ENGLISH	6
SENIOR READING-BASED ELECTIVES	8
SENIOR NON-READING BASED ELECTIVES	11
MATHEMATICS	12
COMPUTER SCIENCE	18
WORLD LANGUAGES	22
CHINESE.....	22
FRENCH.....	23
GERMAN	25
LATIN	26
SPANISH.....	28
ELECTIVES	30
HEALTH / PHYS ED.....	32
HEALTH	32
PHYS ED.....	32
ELECTIVES	35
RELIGIOUS STUDIES	37
SCIENCE.....	42
LAB ELECTIVES	44
NON-LAB ELECTIVES	45
SOCIAL STUDIES.....	49
ELECTIVES	51
FINE ARTS	54
MUSICAL ARTS	54
THEATER ARTS	58
DANCE.....	59
VISUAL ARTS.....	60

GRADUATION REQUIREMENTS

To be awarded a college preparatory diploma, a student must have earned a **minimum of 23½ units of credit**. A unit of credit is equivalent to a passing grade in a subject for two semesters; a half-credit is earned by completing a one-semester course; a quarter-credit is earned in Physical Education, Oral Communication, and Information Processing.

Specific credit requirements for graduation are listed below. **Each student is required to take at least SIX courses in each of his eight semesters.**

CREDIT REQUIREMENTS			
SUBJECT	DESCRIPTION		TOTAL CREDITS
ENGLISH	Oral Communication	.25	4.25
	English 1	1	
	English 2	1	
	English 3	1	
	AP English Lit or Lang OR 2 Electives (at least 1 reading-based)	1	
MATHEMATICS	Algebra I	1	4
	Algebra II	1	
	Geometry and Trigonometry OR Precalculus	1	
	Intro to Calculus OR Calculus (AP or Non-AP) OR AP Statistics	1	
COMPUTER SCIENCE	Information Processing	.25	.25
WORLD LANGUAGES	Proficiency in level 3 of a World Language	3	3
HEALTH	Health CORE	.50	.50
PHYSICAL EDUCATION	PE CORE	.25	.50
	PE 2 Fit OR Adv PE	.25	
RELIGIOUS STUDIES	Scriptures	1	4
	Faith and Church and Sacraments	1	
	Morality and Social Justice	1	
	Elective - 1 st Semester Senior Year	.50	
	Elective - Junior Year or 2 nd Semester Senior Year	.50	
SCIENCE	Biology	1	3
	Chemistry	1	
	Physics (class of 2020+) OR Electives (class of 2019)	1	
SOCIAL STUDIES	Modern World History	1	3
	Economics and Financial Literacy	.50	
	American History	1	
	American Political System OR AP US Government	.50	
FINE ARTS	Fine Arts 1	.50	1
	Fine Arts 2 same discipline OR Fine Arts 1 different discipline	.50	

COLLEGE PREP CURRICULUM

	FRESHMEN	SOPHOMORES	JUNIORS	SENIORS
ENGLISH	English I Oral Communication	English II	English III or AP English Lit	English Electives <i>or</i> AP English
MATH	Algebra I	Algebra II	Geometry/Trig	Introduction to Calculus
	Algebra I	Algebra II	Geometry/Trig	Calculus (non-AP) or AP Stats
	Algebra I / Geometry	Algebra II	Precalculus AB	AP Calculus AB
	Algebra II	Prob Stats/Geometry	Precalculus BC	AP Calculus BC
WORLD LANGUAGES	Language I	Language II	Language III	Language IV (AP)
	Language II	Language III	Language IV (AP)	Language V
SCIENCE (Class of 2019)	Integrated Science	Chemistry <i>or</i> Accelerated Chemistry Electives: Anatomy	Biology <i>or</i> AP Biology Electives: Anatomy, Physiology, AP Psychology	Physics, AP Physics I, AP Lab Science Electives, <i>or</i> Non-Lab Electives: Anatomy, Physiology, AP Psychology, AP Psych/Neuroscience
SCIENCE (Class of 2020+)	Biology <i>or</i> Honors Biology	Chemistry <i>or</i> Honors Chemistry Electives: Anatomy	AP Physics I <i>or</i> AP Lab Science Electives (AP Chemistry, AP Biology) <i>or</i> Non-Lab Electives: Anatomy, Physiology, AP Psychology, AP Psych/Neuroscience, Engineering Foundations, Environmental Science.	AP Physics I <i>or</i> Physics <i>or</i> AP Lab Science Electives: (AP Chemistry, AP Biology, AP Physics C) <i>or</i> Non-Lab Electives: Anatomy, Physiology, AP Psychology, AP Psych/Neuroscience, Engineering Foundations, Environmental Science
SOCIAL STUDIES	Modern World History <i>or</i> AP World History	Intro to Econ and Financial Literacy <i>or</i> AP Macro Economics	American History <i>or</i> AP US History	AP US Government <i>or</i> American Political System Social Studies Electives

There are numerous electives in math, world languages, science and social studies that are offered to juniors and seniors.

STANDARD CURRICULUM FLOWCHART FOR OTHER COURSES

COMPUTER SCIENCES (*with permission)	Information Processing	<p>Students are able to start taking Computer Science Electives starting their Sophomore Year:</p> <p>Programming Electives: Intro to Java, *AP Computer Science A, *Computer Science AB</p> <p>Other Electives: *AP Computer Science Principles I & II, 3D Modeling, Game Programming, Mobile Device App Development, Web Design, Multi-Media Applications, *Tech-Based Service, *Broadcast Journalism I & II</p>		
HEALTH / PHYS ED (*with permission) (**Prerequisite required)		Health / PE (CORE) PE 2 (Summer) <i>(Students may register to take Summer PE 2 during any summer after freshman year)</i>	PE 2 **Advanced PE <i>(must complete one season during freshman and/or sophomore year in sport of choice)</i> Dance 1	*Intro to Sports Medicine <i>(**PE 2 prerequisite)</i> **Dance 2 <i>(Dance 1 prerequisite)</i> **PE 3 <i>(PE 2 prerequisite)</i>
RELIGIOUS STUDIES	Scriptures	Faith, Church, and Sacraments	Morality / Justice (Religion Electives)*	Religion Electives*
<p>* All Seniors are required to take a religious studies elective during the first semester. All first semester religious studies electives are for seniors only, and will cover a unit on Vocations. Some religious studies electives are open to juniors during the second semester.</p>				
<p>2 semesters of Fine Arts are required for graduation (1 Freshman, 1 Sophomore). Freshmen can choose any Level 1 course (No Prerequisites Required). Freshmen with advanced skills have the ability to place into a higher level course, pending teacher approval. Sophomores should advance in level unless otherwise directed by a teacher or counselor. Beyond the requirement, students can take <u>ANY</u> Fine Arts courses as electives.</p>				
FINE ARTS	<u>No Prereqs</u> Creative Thinking and any Level 1 Fine Arts class (except Stagecraft 1)	<u>Level 1 Prereq or Teacher Approval</u> Any Level 2 Fine Arts class, as well as Stagecraft 1, 2D Design, and Sculpture	<u>Level 1 & 2 Prereqs or Teacher Approval</u> Any Level 1, 2, 3 or 4 Fine Arts class, as well as Percussion, Graphic Design, Photography, Ceramics, Painting, AP Drawing, AP 2D Design and AP Music Theory	

LETTER TO JUNIORS

To: Students and Parents

From: Mr. Michael Dehring, Assistant Principal for Academics, the St. Xavier School Counselors and College Advisors

Re: Selection of Courses

You have important choices to make about your courses. We have prepared some guidelines to help you to make thoughtful and wise choices. Please read this sheet carefully.

APPROPRIATENESS AND BALANCE

In general, students are encouraged to take on as much rigor in their course load as they can reasonably handle and still maintain balance among their academic, extracurricular, and personal lives. Colleges are looking for students who have challenged themselves in a broad range of courses, with emphasis on your core subjects. The transcript is considered the most important document to college admissions. The importance of performing well academically cannot be stressed enough. You are encouraged to consider your academic interests, as long as it's not at the expense of your overall rigor or your preparation for college.

FACTS ABOUT COLLEGE ADMISSION AND CONSIDERATIONS FOR COURSES

- Colleges typically recommend these minimum requirements for admission consideration. Additional course work in core areas such as math, natural science and foreign language is a strong indicator of one's potential to succeed in college. Therefore, students exceeding these recommendations are typically given additional consideration.
 - English: four years
 - Math: four years (including Calculus for students interested in engineering)
 - Natural Sciences: three years of lab sciences
 - Social Studies: three years
 - World Language: three years of one world language
 - Visual or Performing Arts: one year

HIGHLY SELECTIVE UNIVERSITIES

- If you are considering application to a selective college, you should bear in mind that many selective colleges have minimum course requirements for entering students. It is best to research each school individually.
- The most selective universities will expect students to maximize the coursework offered at their high school. The number of Advanced Placement (AP) courses *and your achievement* ("A" or "B") in them is highly regarded in the admission process. Choosing to take an AP class should be considered carefully with attention to your desired colleges and your skill level and motivation. It's wise to discuss this with your teacher, parent and counselor to gain the fullest perspective.

This is a critical step in preparing for a successful academic future, while discerning your strengths, interests and goals.

ENGLISH COURSE DESCRIPTIONS

ENGLISH

Students are automatically placed into their English 1, 2, and 3 classes by the English Department

1000

ORAL COMMUNICATION

Grade 9 / 1 Semester / .25 Credit

Freshmen are automatically enrolled into 1000 Oral Communication and 3101 Information Processing. These two classes earn .25 credit each (for a total of .50 credit in one semester).

Goals and Objectives: This course is designed to introduce freshmen to the area of interpersonal communication, public and persuasive speech and the fundamentals of debate. The emphasis is placed on developing each student's self-confidence in public speech by using logical, informative thoughts in a persuasive manner.

Content and Methods: This course is taught in a lecture format with the use of articles; group discussions; group work, and guest lectures. Students primarily learn through a series of individual and group speeches in the areas of information, demonstration, sales, persuasion and debate.

Evaluation and Grading: Grading is based on students' individual skills in the oral presentations, class participation, group work, and in and out of class assignments.

1102

HONORS ENGLISH 1

Grade 9 / 2 Semesters / 1 Credit

Goals and Objectives: To foster proficiency in the basic skills of

written communication by means of a working understanding of grammar and principles of composition; to concentrate upon the teaching of the expository paragraph; to enable the student to communicate through the written word effectively and intelligently; to convince the student that his grounding in the expository paragraph, and later in the expository essay, is the basis for continued refinement and improvement during the remainder of his association with the English curriculum.

Content and Methods: *Materials:* Sadler's *Grammar for Writing*, the freshman anthology, Ray Bradbury's *Fahrenheit 451*, *The Book Thief*, and various novels (totaling two novels per quarter) and a vocabulary workbook. *Methods:* includes lecture and discussion, occasional small-group work, individualized work in class, particularly in grammar and vocabulary.

Evaluation and Grading: Tests, quizzes, quarter exams and four writing assignments of paragraph or essay length per quarter.

1101 or 1100

ENGLISH 1

Grade 9 / 2 Semesters / 1 Credit

Goals and Objectives: To foster proficiency in the basic skills of written communication by means of a working understanding of grammar and principles of composition; to concentrate upon the teaching of the expository paragraph; to enable the student to communicate through the written word effectively and intelligently; to convince the student that his grounding in the expository paragraph, and later in the expository

essay, is the basis for continued refinement and improvement during the remainder of his association with the English curriculum.

Content and Methods: *Materials:* Sadler's *Grammar for Writing*, the freshman anthology, Ray Bradbury's *Fahrenheit-451*, various novels and a vocabulary workbook. *Methods:* includes lecture and discussion, occasional small-group work, individualized work in class, particularly in grammar and vocabulary.

Evaluation and Grading: Tests, quizzes, quarter exams and four writing assignments of paragraph or essay length per quarter.

1202

HONORS ENGLISH 2

Grade 10 / 2 Semesters / 1 Credit

Goals and Objectives: To develop further the student's ability to write effective paragraphs and expository essays both formal and informal in style; to review standard grammatical usage; to acquaint the student with the various genres of literature, particularly poetry, drama, and fiction; to deepen his appreciation and sharpen his critical awareness through study of these genres.

Content and Methods: The course will deal with an intensive review and development of the student's ability to write expository prose. An introduction to the structures of narrative prose and fiction will be added to this emphasis on composition, as will introductions to the structure and development of drama, and an introduction to the form and content of poetry.

ENGLISH COURSE DESCRIPTIONS

Combinations of lecture, class discussion, small-group work, essays, in-class revision, and audio-visual presentations make up the methods used. Vocabulary and usage study continue throughout the school year.

Evaluation and Grading: Four compositions per quarter; quizzes on reading assignments, usage, and vocabulary; and quarter exams.

1201 or 1200 ENGLISH 2

Grade 10 / 2 Semesters / 1 Credit

Goals and Objectives: To develop further the student's ability to write effective paragraphs and expository essays both formal and informal in style; to review standard grammatical usage; to acquaint the student with the various genres of literature, particularly poetry, drama, and fiction; to deepen his appreciation and sharpen his critical awareness through study of these genres.

Content and Methods: The course will deal with an intensive review and development of the student's ability to write expository prose. An introduction to the structures of narrative prose and fiction will be added to this emphasis on composition, as will introductions to the structure and development of drama, and an introduction to the form and content of poetry. Combinations of lecture, class discussion, small-group work, essays, in-class revision, and audio-visual presentations make up the methods used. Vocabulary and usage study continue throughout the school year.

Evaluation and Grading: Four compositions per quarter; quizzes on

reading assignments, usage, and vocabulary; and quarter exams.

130, 131, 132 ENGLISH 3

Grade 11 / 2 Semesters / 1 Credit

Goals and Objectives: The English 3 course is an historical survey to help students read with pleasure and understanding significant works by British writers from the Anglo-Saxon era to the twentieth century, and to aid students in the development of written expression based chiefly upon the literature. Review and reinforcement of basic skills in grammatical usage and effective written expression are designed to serve as preparation for the SAT.

Content and Methods: The course is divided into two levels. The top level will be chosen by recorded evidence of competence and by teacher recommendation. The group will have a heavy reading program centering on the major ideas manifested in British writing. Writing assignments will demand considerable depth, insight, and development. The group on the second level will examine the contribution of significant British writers and will react to it with frequent written assignments. A vocabulary program designed for each level will also be studied and tested.

Evaluation and Grading: For each level, grades will be based upon quizzes, major tests, essays, and quarter examinations.

170

AP ENGLISH LITERATURE AND COMPOSITION

Grades 11, 12 / 2 Semesters / 1 Credit

Prerequisites: Students are admitted on the basis of performance in past English classes. Average of all previous semesters 90% or above for regular level English courses, 88% or above for honors level English courses, as well as a 90% or above cumulative grade point average.

Goals and Objectives: This course is designed to help talented, interested, and industrious students of English develop two skills: 1) sound critical thinking regarding literature (through a close reading of selected works and extended classroom discussion of them); 2) effective written expression of this criticism. An additional objective of the course is to prepare students for the Advanced Placement Literature and Composition Examination, administered in May.

Content and Methods: Although some lecture is occasionally necessary, emphasis is placed upon students' participation in class discussions of the assigned readings. Students can also expect to be called upon to make one or two brief presentations to other members of the class on topics related to the literature being studied. Emphasis of course is placed upon writing; some of these themes will be written in class and some will be out-of-class assignments. Approximately one quarter of the class will be devoted to a study of some Shakespearean drama: *Hamlet*, *Henry IV Part 1*, and one comedy. There will also be a brief review of lyric poetry (about two to three weeks) primarily as preparation for the AP

ENGLISH COURSE DESCRIPTIONS

examination. The remainder of the course will be devoted to a study of narrative fiction.

Evaluation and Grading: Quizzes, essays, presentations, and exams. Students should expect, on average, 45 minutes of homework per weekday night.

171 AP ENGLISH LANGUAGE AND COMPOSITION

Grade 12 / 2 Semesters / 1 Credit

Prerequisites: Students are admitted on the basis of performance in past English classes. Average of all previous semesters 90% or above for regular level English courses, 88% or above for honors level English courses, as well as a 90% or above cumulative grade point average.

Goals and Objectives: The goal of this course is to provide background for the Advanced Placement Test in Composition, and in a more general sense, to prepare students to deal successfully with various writing situations. The emphasis will be on learning to understand and appreciate techniques of rhetoric in the writing of well-known authors and then apply this knowledge to the student's own work.

Content and Methods: Students will read study works that comment on our classical western roots, i.e., the writings of Aristotle and Plato, for a greater understanding of the importance of rhetoric in our education and in life. Also, we will read a wide variety of modern and contemporary essayists who have reflected upon issues of human concern and matters of enduring

value and meaning. Several fiction works will be studied as well, like 1984 and Cat's Cradle, which depict in narrative form literary commentaries on these same issues and matters.

Evaluation and Grading: Quizzes, essays, presentations, and exams. Students should expect, on average, 45 minutes of homework per weekday night.

SENIOR READING- BASED ELECTIVES

** At least one Senior English class must be Reading-Based*

140 AMERICAN AUTHORS

Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: To read critically and thoughtfully; to write about literature with fluency, perception, and voice; to become familiar with representative American authors of the past 100 years; to consider secondary sources and criticism; to compare, contrast, analyze, criticize and apply literature to one's life.

Content and Methods: This course will expose the student to representative works by major American authors of the last 100 years and consider the recurring themes – the search for an authentic self, Manifest Destiny, freedom, opportunity, self-reliance, the Melting Pot – that make up the American mythology and self-identity. The majority of the authors are Nobel or Pulitzer Prize winners, and most are listed in the top 100 from Reading Lists for College-Bound Students.

Students will read short stories, novellas, novels, and autobiographies by such authors as Henry James, Willa Cather, Ernest Hemingway, William Faulkner, John Steinbeck, Kurt Vonnegut, Richard Wright, and Toni Morrison, among others. Drama may include Arthur Miller's *Death of a Salesman*, Tennessee William's *A Streetcar Named Desire*, and Thornton Wilder's *Our Town*.

Evaluation and Grading: Quarter grades will be based on quizzes and short essays on the reading, class discussions, two or three literary analysis papers, and the quarter exam. In addition there will be an independent project at some point in the semester.

143 STUDIES IN SHAKESPEARE

Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: To provide the student the opportunity to broaden his experience and appreciation of Shakespeare through reading, viewing, discussing and writing about selected comedies, histories, and tragedies.

Content and Methods: Among the plays included in the course are the following: *Henry IV (Part One)*, *Henry V*, *Hamlet*, *Othello*, and *Twelfth Night*. In addition to the plays, a limited amount of critical material will be considered. Although some lecture will be required, emphasis will be placed on the student's participation in class discussion.

Evaluation and Grading: Quizzes and tests on the readings, class participation, essays (some in-class; some out-of-class), and exams.

ENGLISH COURSE DESCRIPTIONS

148

NON-FICTION

Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: To be an educated reader is to be a reader of more than literature. The world of non-fiction writing offers vistas into history, personal narrative, science and nature, sports and culture, in focused ways that literature cannot. The purpose of this class is to expose students to works from various non-fiction categories so that students develop a well-rounded foundation for a lifetime of educated reading.

Content and Methods: Students will read full length books from various non-fiction areas, titles to include *Angela's Ashes*, *Endurance*, *The Professor and the Madman*, and *Double Helix*, among others. Students will also read outside works, both book length and essay length. Class discussion, small group work, student presentations, and classroom exercises will be the primary methods.

Evaluation and Grading: Analytical and personal experience essays (some in-class; some out-of-class), focused research exercises, presentations, quarter exams, and quizzes.

149

CONTEMPORARY SHORT STORY

Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: To read, discuss, write about, and think critically about contemporary short stories—those published in the last forty years.

Content and Methods: Students will read from an anthology of the best short stories of the last forty-five years and will read at least one collection by a single author. Students will use various analytical tools to help them think critically about the following questions, among others: What is the status of the short story in the hands of the best contemporary writers? What themes seem common in contemporary stories? In what ways do these stories reflect society? Finally, students will investigate a particular author's collection on their own, and report to the class on their findings.

Evaluation and Grading: Frequent quizzes and in-class writing on readings; compositions, including one shorter comparative piece in the first quarter and one longer analytical piece in the second quarter, presentations, quarter exams.

154

OTHER VOICES OF AMERICAN LITERATURE

Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: To expose students to works of American Literature less often included in the traditional canon. Students will experience works from various American cultures including: Native American, Hispanic, African American, Asian, Indian, among others. The course will offer students opportunities to explore and compare their own lives through literature and hands-on cultural experiences.

Content and Methods: The methodology will include novels, short stories, poetry, essays, journals, focused discussions, group projects,

guest speakers, videos, field trips and a community service project. Students will read works such as: *The Bluest Eye*, *American Born Chinese*, *The Kite Runner*, *The Boyhood Kings of Texas* and other works by authors such as: Greg Williams, Frederick Douglass, Malcolm X and others. Students will also be introduced to American roots music starting with blues progressing through jazz, rock and hip hop. These lessons will be interwoven with the literature.

Evaluation and Grading: Quarter grades will be based on objective quizzes and short essays on reading, class discussions, two or three literary analysis papers, group projects and quarter exams.

155

WORLD LITERATURE

Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: To read and evaluate selected works of world literature from diverse cultures and ages; to consider texts from a variety of genres and traditions in terms of their social and historical context; to develop further the ability to write about literature effectively and thoughtfully.

Content and Methods: Traditional and contemporary works from a variety of genres will be examined. Students will study classics such as *The Odyssey*, *Oedipus Rex*, *The Death of Ivan Ilyich* and *The Stranger*. Through class discussion and composition, they will reflect on the essential questions posed by these works, such as, "What constitutes a good life?" In addition, students will read contemporary novels from around the globe, using these works to learn

ENGLISH COURSE DESCRIPTIONS

more about the history and culture of the regions in which they are set. Selections will include: an account of two Chinese boys surviving reeducation during Mao's Cultural Revolution, a tale of two women living in Afghanistan during civil war and Taliban rule, and the true story of a child soldier in Sierra Leone.

Evaluation and Grading: Quizzes and tests on the readings, class participation, various types of compositions, and quarter exams.

160 WOODS AND WATERS

Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: To foster a love and appreciation of nature through critical reading of fiction and non-fiction, writing, discussion, and a sharing of our passion for outdoor pursuits. To become proficient in descriptive writing through the use of a nature journal, and in argumentative writing through position papers organized by rhetorical purpose rather than formulaic structure.

Content and Method: Through reading, discussion, and journaling, students will discover the role of nature in their lives. Students will study the evolution of America's view of nature, and the works of our most influential nature writers and conservationists in order to better understand current conservation issues. Through "adventure presentations" and occasional class trips to our campus nature preserve, students will learn the value of disconnecting from our busy world and finding God and peace in the solitude of nature. Representative

authors include Henry David Thoreau, Norman Maclean, Annie Dillard, John Muir and Wendell Berry. Though there will be some lecture, this course is primarily discussion driven; students will be expected to enter our conversations thoughtfully.

Evaluation and Grading: Grades will be comprised of essays, major projects, reading quizzes, class participation, and exams.

161 INTRODUCTION TO POETRY

Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: To further the student's ability to read poetry closely and thoughtfully; to help the student understand and recognize the elements and poetic devices commonly in use by poets; to analyze historical and structural trends in poetry; to develop further the ability to organize thoughts accurately and effectively; to understand the difference between literary explication and analysis; to offer students opportunities to explore their own experiences critically through the medium of poetry.

Content and Methods: The course will be built around Arp and Perrine's *Sound and Sense*. Students will learn the basic structural elements of poetry through reviewing all 15 chapters. In addition to the poems in the text, students will have access to three daily poetry sites: The Poetry Foundation (poetryfoundation.org), The Writer's Almanac (writersalmanac.org) and the Academy of American Poets (poets.org). Students will read and react to poems daily through class

discussion and through a poetry journal, but no personal poetry writing will be expected. The methods will consist of lectures, small group work, writing and analysis, class discussion, and group presentations.

Evaluation and Grading: Quizzes (40%); essays and presentations (40%); exams (20%)

163 SCIENCE FICTION

Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: To become familiar with the science fiction genre by reading books about war, virtual reality, the ethics of E.T. encounters, and dystopian/classist societies; to develop critical reading and writing skills; to learn to see ourselves and our world in new ways by studying societies and worlds outside of those we are familiar with; to increase multicultural literacy and consider issues that we face in a globalized world; to conduct personal research into a science fiction author, work, and theme.

Content and Methods: The experience will be organized around the following four themes: war, virtual reality, the ethics of diplomacy with extraterrestrials, and dystopian/classist societies. Students should leave with the ability to define and recognize "hard science fiction," an awareness of common science fiction tropes like dystopias, and an understanding of the impact of technology on everyday life, the economy, war, foreign policy, and religion. Students will keep a journal throughout the semester (responding to prompts and generating their own topics for entries), write one literary or

ENGLISH COURSE DESCRIPTIONS

critical analysis, one comparative essay, and conduct one research project. In addition to the reading, writing, and research project, classes will be comprised of lecture, class discussion, and additional, smaller project based learning assignments.

Evaluation and Grading: Grades will be determined by reading quizzes and tests, various homework assignments, journaling (respond to prompts and self-generated), one critical essay, one compare/contrast essay, one research project (essay and presentation), and a participation grade.

SENIOR NON-READING BASED ELECTIVES

142 CREATIVE WRITING

Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: To give students the opportunity to write poetry, descriptive prose, and short stories.

Content and Methods: The students will discuss and practice techniques used in imaginative writing. Eventually a collection of poetry and two short stories will be written. A textbook will be used and will be supplemented with other materials. The best material will be considered for various contests and for publication in school magazines. Aspects of punctuation, grammar, and usage will be reviewed.

Evaluation and Grading: Manuscripts will be graded for form and content; the “creative” nature of the work does not preclude this kind of

grading. Quarter examinations and smaller tests will be given.

146 AMERICAN FILM

Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: To view and discuss selected films of the American film industry; to sharpen the students’ critical abilities through careful analysis of plot, character, cinematography, sound, costuming, and other aspects of film-making; to write about and critique film in a coherent and intelligent manner.

Content and Methods: This course examines films from several American genres and includes such films as *Psycho*, *Do the Right Thing*, *Unforgiven*, *The Maltese Falcon*, and *The Godfather*. In some cases, students will be required to watch all or part of the films outside class time. In addition to viewing these films, students will be required to read outside texts and critical material. Although some lecture will be given, most of the class will be dedicated to student discussion.

Evaluation and Grading: Quizzes, in-class writing, two major projects, and quarter exams.

MATHEMATICS COURSE DESCRIPTIONS

MATHEMATICS

An asterisk (*) denotes a course that requires teacher approval

2110*

HONORS ALGEBRA II

Grade 9 / 2 Semesters /1 Credit

Prerequisites: Math Placement Test

2120*

ALGEBRA I / GEOMETRY

Grade 9 / 2 Semesters /1 Credit

Goals and Objectives: To find solutions to linear equations, quadratic equations and systems of simultaneous first degree equations; to work with rationals and solve rational equations; to work with radicals and solve radical equations; to solve word problems with algebraic equations and inequalities; to encourage an appreciation for logical organization of proof; to study triangles and their relationships – congruency and similarity; to study perpendicular and parallel lines and planes; to study quadrilaterals and their properties; to study the Pythagorean Theorem and special right triangles; to learn how to calculate areas and volumes; to study circles and spheres.

Content and Methods: *Materials:* TI-84 graphing calculator. *Methods:* classroom discussion and notes, small group work, board work and homework - approximately 30 minutes per night.

Evaluation and Grading: Quizzes, tests and quarter exams.

2130 or 2140 ALGEBRA I

Grade 9 / 2 Semesters /1 Credit

Goals and Objectives: To learn algebraic terminology and how it is applied; to perform all basic operations of algebra; to graph relations in one space and two spaces; to find solutions to linear equations, quadratic equations and systems of simultaneous first degree equations; to work with rationals and solve rational equations; to work with radicals and solve radical equations; to solve word problems with algebraic equations and inequalities.

Content and Methods: *Materials:* TI-84 graphing calculator. *Methods:* classroom discussion and notes, small group work, board work and homework - approximately 30 minutes per night.

Evaluation and Grading: Quizzes, tests and quarter exams.

2210*

HONORS PROB / STATS / GEOMETRY

Grade 10 / 2 Semesters /1 Credit

Prerequisites: Algebra II, sophomore standing and teacher approval.

Goals and Objectives: To introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data; to acquaint the students with the theory of probability and to illustrate some applications of probability to statistical theory; to encourage an appreciation for logical organization of proof; to study triangles and their relationships – congruency and

similarity; to study perpendicular and parallel lines and planes; to study quadrilaterals and their properties; to study the Pythagorean Theorem and special right triangles; to learn how to calculate areas and volumes; to study circles and spheres.

Content and Methods: *Materials:* TI-84 graphing calculator; teacher developed materials, *Introduction to Statistics & Data Analysis* (Peck, Olsen and Devore) and *Geometry* (Jurgenson) classroom discussion, board work, and homework - approximately 30 minutes per night.

Evaluation and Grading: Problem sets, quizzes, tests and quarter exams.

2211*

HONORS PROB / STATS

Grade 10 / 1 Semester / .50 Credit

2212*

HONORS GEOMETRY

Grade 10 / 1 Semester / .50 Credit

2220*

HONORS ALGEBRA II

Grade 10 / 2 Semesters /1 Credit

Prerequisites:

- Algebra I/Geometry (2120) and teacher approval OR
- Algebra I (2130) and Summer Geometry (2222) and teacher approval OR
- Algebra I (2130), Co-requisite: Geometry (2221) and teacher approval

Goals and Objectives: To review the concepts developed in Algebra I; to

MATHEMATICS COURSE DESCRIPTIONS

study quadratic equations and inequalities; to study different types of functions – linear, quadratic, exponential, and logarithmic through the observation of their graphs and defining equations; to introduce analytics; to study the complex number system; to study arithmetic and geometric sequences and series.

Content and Methods: *Materials:* TI-84 graphing calculator. *Methods:* classroom discussion and notes, small group work, board work and homework - approximately 30 minutes per night.

Evaluation and Grading: Quizzes, tests and quarter exams.

2221*

GEOMETRY

Grade 10 / 1 Semester / .50 Credit

This course is for students who plan to take Geometry during sophomore year to move to Precalc AB during Junior year. Some students registered for this class will be merged in with the Juniors in Geometry 232.

Prerequisites: Algebra I

Co-requisite: Algebra II (2220)

Goals and Objectives: To encourage an appreciation for logical organization of proof; to study triangles and their relationships – congruency and similarity; to study perpendicular and parallel lines and planes; to study quadrilaterals and their properties; to study the Pythagorean Theorem and special right triangles; to learn how to calculate areas and volumes; to study circles and spheres.

Content and Methods: *Materials:* TI-84 graphing calculator. *Methods:* classroom discussion and notes, group work, board work and homework - approximately 30 minutes per night.

Evaluation and Grading: Quizzes, tests and quarter exams.

2222*

GEOMETRY

Grade 10 / 5 weeks / .50 Credit

This course is for students who plan to take Geometry in the summer after freshman or sophomore year in an effort to take Precalculus AB during junior year. These students also register for Algebra II (2220) for sophomore year OR are currently in Algebra II (2230) and register for Precalculus AB for junior year. It may also be taken by students who completed Algebra II freshman year to free up room for an elective in their sophomore year.

Prerequisites: Algebra I (2130) or Algebra II (2110) AND Teacher approval

Cost: There will be an additional cost of \$400 for this summer session

Dates: Summer of 2018: June 4th – July 6th Mon-Fri 11:00a.m. - 2:00p.m.

Goals and Objectives: To encourage an appreciation for logical organization of proof; to study triangles and their relationships – congruency and similarity; to study perpendicular and parallel lines and planes; to study quadrilaterals and their properties; to study the Pythagorean Theorem and special right triangles; to learn how to

calculate areas and volumes; to study circles and spheres.

Content and Methods: *Materials:* TI-84 graphing calculator. *Methods:* classroom discussion and notes, group work, board work and homework.

Evaluation and Grading: Quizzes, tests and quarter exams.

2230 or 2240

ALGEBRA II

Grade 10 / 2 Semesters / 1 Credit

Prerequisites: Algebra I

Goals and Objectives: To review the concepts developed in Algebra I; to study quadratic equations and inequalities; to study different types of functions – linear, quadratic, exponential, and logarithmic through the observation of their graphs and defining equations; to introduce analytics; to study the complex number system.

Content and Methods: *Materials:* TI-84 graphing calculator; classroom discussion and notes, small group work, board work and homework - approximately 30 minutes per night.

Evaluation and Grading: Quizzes, tests and quarter exams.

230*

PRECALCULUS BC

Grade 11 / 2 Semesters / 1 Credit

Prerequisites: Algebra II, Geometry and teacher approval.

Goals and Objectives: To provide a thorough preparation for the study of

MATHEMATICS COURSE DESCRIPTIONS

BC Calculus and Linear Algebra; to help develop mathematical maturity by emphasizing proof in an abstract mathematical setting; to illustrate significant applications of mathematics whenever appropriate; to stress the unity of mathematics by continually returning to such unifying themes as mappings, binary operations, and groups. Some major topics include: set theory and logic, the algebra of vectors, functions, complex numbers, theory of polynomial equations, functions and inverse functions – exponential, logarithmic, circular, and trigonometric, and an in depth study of trigonometry and complex numbers, the conic sections and three-dimensional analytic geometry.

Content and Methods: Materials: TI-84 graphing calculator; *Modern Introductory Analysis* (Dolciani) classroom discussion and notes, board work, daily homework - approximately 45 minutes per night.

Evaluation and Grading: Quizzes, tests and quarter exams.

231* PRECALCULUS AB

Grade 11 / 2 Semesters / 1 Credit

Prerequisites: Algebra I, Geometry, Algebra II, and teacher approval.

Goals and Objectives: To provide a thorough preparation for the study of AB Calculus; to provide an in-depth study of functions specifically polynomial, power, rational, exponential and logarithmic functions; to study all of the key elements of trigonometric functions in right triangle and coordinate situations as well as their graphs; to

study the identities and algebraic properties of trigonometric functions; to introduce the fundamental ideas of calculus including limits.

Content and Methods: Materials: TI-84 graphing calculator; classroom discussion and notes, group work, board work and homework - approximately 45 minutes per night.

Evaluation and Grading: Quizzes, tests and quarter exams.

232 or 233 GEOMETRY

Grade 11 / 1st Semester / .50 Credit

Prerequisites: Algebra I and Algebra II

Goals and Objectives: To encourage an appreciation for logical organization of proof; to study triangles and their relationships – congruency and similarity; to study perpendicular and parallel lines and planes; to study quadrilaterals and their properties; to study the Pythagorean Theorem and special right triangles; to learn how to calculate areas and volumes; to study circles and spheres.

Content and Methods: *Materials:* TI-84 graphing calculator. *Methods:* classroom discussion and notes, group work, board work and homework - approximately 30 minutes per night.

Evaluation and Grading: Quizzes, tests and quarter exams.

234 or 235 TRIGONOMETRY

Grade 11 / 2nd Semester / .50 Credit

Prerequisites: Algebra I, Algebra II and Geometry.

Goals and Objectives: To study the six trigonometric relationships on both right and oblique triangles, the trigonometric functions on a coordinate plane in both radians and degrees, their graphs, applications and the trigonometric identities, and to solve trigonometric equations.

Content and Methods: Materials: TI-84 graphing calculator; classroom discussion and notes, group work, board work and homework.

Evaluation and Grading: Quizzes, tests and quarter exams.

246 INTRODUCTION TO CALCULUS

Grade 11 / 1 Semester / .50 Credit

248* CALCULUS

Grade 12 / 2 Semesters / 1 Credit

Prerequisites: Algebra II, Geometry, Trigonometry and Teacher Approval

Goals and Objectives: To be introduced to the main concepts of calculus including limits, derivatives and integrals with emphasis on application and theory. To provide a solid foundation for students to study college calculus. Note: This course is not designed to prepare students for the Advanced Placement test and students will not complete the AP curriculum.

Content and Methods: Materials: TI-84 graphing calculator, class discussion and notes, homework - approximately 30 minutes per night.

MATHEMATICS COURSE DESCRIPTIONS

Evaluation and Grading: Quizzes, tests, homework and quarter exams.

240 INTRODUCTION TO CALCULUS

Grade 12 / 2 Semesters /1 Credit

Prerequisites: Algebra I, Algebra II, Geometry, and Trigonometry

Goals and Objectives: To review and further develop topics which include basic algebraic operations, functions, graphing, systems of linear equations, logarithms and exponentials; to provide an introduction to the main topics in differential and integral calculus with an emphasis on applications rather than an in-depth study of theory.

Content and Methods: Materials: TI-84 graphing calculator; classroom discussion and notes, group work, board work and homework - approximately 30 minutes per night.

Evaluation and Grading: Quizzes, tests and quarter exams.

245 INTRODUCTION TO CALCULUS

Grade 12 / 1 Semester / .50 Credit

2730* or 251*

AP STATISTICS

Grades 10, 11, 12 / 2 Semesters /1 Credit

Prerequisites: Algebra I, Algebra II (high level or above), AND teacher approval

Goals and Objectives: To prepare for the Advanced Placement Statistics test; to develop strategies for collecting, organizing, analyzing, and drawing conclusions from data; to design, administer, and tabulate results from surveys and experiments; to use probability and simulations to aid in constructing models for chance behavior; to study sampling distributions to provide the logical structure for confidence intervals and hypothesis tests; to develop effective statistical communication skills through frequent written and oral analyses of real data.

Content and Methods: Materials: TI-84 graphing calculator, *Introduction to Statistics & Data Analysis* (Peck, Olsen, and Devore). Method: Classroom discussion, reading assignments, notes, group work, daily homework.

Evaluation and Grading: Daily assignments, quizzes, tests and quarterly exams.

252* AP STATISTICS

Grade 12 / 1 Semester / .50 Credit

Prerequisites: Algebra I, Algebra II (high level or above), AND teacher approval

Goals and Objectives: To prepare for the Advanced Placement Statistics test; to develop strategies for collecting, organizing, analyzing, and drawing conclusions from data; to design, administer, and tabulate results from surveys and experiments; to use probability and simulations to aid in constructing models for chance behavior; to study sampling distributions to provide the logical structure for confidence intervals and

hypothesis tests; to develop effective statistical communication skills through frequent written and oral analyses of real data.

Content and Methods: Materials: TI-84 graphing calculator, *Introduction to Statistics & Data Analysis* (Peck, Olsen, and Devore). Method: Classroom discussion, reading assignments, notes, group work, daily homework.

Evaluation and Grading: Daily assignments, quizzes, tests and quarterly exams.

270* AP CALCULUS BC

Grade 12 / 2 Semesters /1 Credit

Prerequisites: Precalculus BC AND teacher approval.

Goals and Objectives: To provide a complete preparation for the BC Calculus AP Test and to help the student gain an appreciation for the rich history and the creative genius behind the techniques of "the calculus", to thoroughly develop and master the concepts and procedures of differentiating and integrating and to apply those skills to practical problems as varied as exponential growth, optimization and volumes of revolutions; and to provide a solid theoretical background for students who wish to study advanced work in mathematics or who wish to major in science, engineering, computer science, or mathematics. Significant topics: a rigorous and in depth study of the derivative and the Riemann integral; properties and evaluation of limits; the calculus of elementary functions and their inverses; convergence tests for series and sequences; separable differentiable

MATHEMATICS COURSE DESCRIPTIONS

equations; techniques of integration; applications of the integral such as volumes, arc length, and average value; Euler's Method and slope fields.

Content and Methods: Materials: TI-84 graphing calculator. Method: Classroom discussion, notes, group work, and daily homework.

Evaluation and Grading: Tests, daily assignments, and quarter exams.

271*

AP CALCULUS AB

Grade 12 / 2 Semesters /1 Credit

Prerequisites: 231 Precalculus AB AND Teacher Approval

Goals and Objectives: To prepare for the Advanced Placement AB Calculus test; to become competent in the basic mechanics of calculus – limits, derivatives and integrals; to understand the concepts and theory of these basic mechanics; to become competent in the basic applications of calculus –optimizations, related rates, areas, volumes, and methods of integration; to provide a solid background for students who wish to study advanced work in mathematics, science, engineering, or computer science.

Content and Methods: Materials: TI-84 graphing calculator; class discussion and notes, board work, group work, and homework.

Evaluation and Grading: Quizzes, tests, homework and quarter exams.

273*

LINEAR ALGEBRA

Grade 12 / 1st Semester /.50 Credit

Co-requisite: AP Calculus BC or AP Calculus AB AND teacher approval.

Goals and Objectives: To provide an introduction to the algebra and geometry of two and three dimensional space using vectors, matrices, determinants, linear transformations, and eigenvectors; to serve as a transition from computational to more theoretical mathematics; to help develop “mathematical maturity” by emphasizing proof in an abstract mathematical setting and to learn how to perform matrix operations on the calculator. (Recommended for advanced students who plan to major in mathematics, engineering, the physical sciences, or computer science)

Content and Methods: TI-84 graphing calculator; *Elementary Linear Algebra* (Anton) class discussion, notes, group work, and daily homework.

Evaluation and Grading: Tests, daily homework, and quarter exams.

274*

MULTIVARIABLE CALCULUS

Grade 12 / 2nd Semester /.50 Credit

Prerequisites: Teacher approval and Linear Algebra

Co-requisite: AP Calculus BC

Goals and Objectives: To continue the techniques of BC Calculus and Linear Algebra and to apply those techniques to the calculus of three-dimensional space; to cover material that is part of the third semester of a college calculus sequence. Some major topics include: calculus of vector-valued functions, limits and

partial and directional derivatives of functions of two and three variables, using Lagrange's Multipliers to find extreme values, evaluating double and triple integrals using rectangular, cylindrical, and spherical coordinates, graphing and finding the divergence and the curl of vector fields, evaluating line integrals, and the proof and application of Green's, Stoke's and the Divergence Theorems.

Content and Methods: Materials: TI-84 graphing calculator; *Multivariable Calculus* (James Stewart 6th edition) and lab work with the mathematical software *Mathematica*, class discussion and notes, daily homework.

Evaluation and Grading: Tests, daily homework, and quarter exams.

241

ACCOUNTING

Grade 12 / 1 Semester /.50 Credit

Goals and Objectives: To give an introduction to the principles and methods of accounting; to emphasize an understanding of the underlying basic procedures to set up and operate a small business accounting system, to learn the skills necessary for the handling of the financial records of a small business; to introduce the student to automated data processing and its applications to accounting; to learn the necessary skills for the preparation of a federal tax return for a small business.

Content and Methods: Materials: *Century 21 Accounting*, TI-84 graphing calculator; online workbook, and online business simulation packet. Method: Lecture, discussion, notes, group work and homework. One or two class periods a week will be used

MATHEMATICS COURSE DESCRIPTIONS

as laboratory periods where students will work on assignments from the workbook, business simulation packet and have the opportunity to consult with the teacher.

Evaluation and Grading: Chapter tests, quizzes based on homework assignments, homework assignments, business simulation packet and quarter exams.

242

FINANCE

Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: To provide the students with a practical understanding of the time value of money as it applies to interest rates, annuities, stocks, bonds and insurance. The student will be able to solve all types of interest rate problems including simple interest, compound interest and continuous interest and be able to solve for every variable (rate, time, payment, present value, future value). The student will also be able to solve for every variable in an annuity and understand how to obtain and use financial ratios.

Content and Methods: *Materials:* Schaum's: *Mathematics of Finance* and the TI-84 graphing calculator.
Method: Lecture, class discussion, board work, daily homework, one group project, and one individual project.

Evaluation and Grading: Tests, projects, class participation, and quarter exams.

COMPUTER SCIENCE COURSE DESCRIPTIONS

COMPUTER SCIENCE

3101 INFORMATION PROCESSING

Grade 9 / 1 Semester / .25 Credit

Description: Information Processing earns .25 credit. Freshmen are also automatically enrolled into Oral Communications for the other .25 credit; both of these classes together earn .50 credit in one semester.

Goals and Objectives: Students will learn what it means to be a Citizen in a Digital Society. Information Processing will go beyond Acceptable Use Policies, where the students will learn how to use technology more appropriately in the educational realm, as well as, outside the classroom. The key is that they learn to use technology safely, responsibly and ethically. Students will develop awareness and knowledge of what is appropriate and inappropriate uses of technology. Students will learn and, as a result, teach what it means to be a Good Digital Citizen.

Content and Methods: Classes meet alternately with *Oral Communication* and are primarily done in lab sessions. Emphasis is placed on a combination of skills and resourcefulness. Experimentation and development of creative ideas is encouraged.

Evaluation and Grading: Lab assignments, presentations, quizzes, and group debates.

3201 or 301 MULTI-MEDIA APPLICATIONS or COMPUTER APPLICATIONS

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Information Processing

Goals and Objectives: Visual literacy is growing in importance as technology is incorporated into our daily lives. This course offers students the opportunity to learn the skills needed to express ideas in various multimedia formats. This project based class allows for student creativity while meeting the course objective. Projects will include: Sound editing and audio manipulation; graphic design; creating animations and video editing. This class will also include a consumer level understanding of computer fundamentals and develop a proficiency in the use of a Windows-based platform.

Content and Methods: This course is for students interested in hands-on use of the computer as a tool for expressing ideas and/or creating messages. Students will be introduced to the concept and use of Adobe Creative Suites - Flash/Animate, Premiere (video editing), Fireworks & Photoshop as well as Audacity (audio editing) software.

Evaluation and Grading: Lab assignments, presentations, group projects, and portfolio.

3202 or 306 3D MODELING

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Information Processing

Goals and Objectives: The student will be introduced to the fundamentals of using computers to create three dimensional models. He will develop an appreciation for applying the principles of engineering

drafting into digital designs and models.

Content and Methods: Students will learn to communicate graphical and design concepts with emphasis on visualization, modeling techniques, and tools. Students will encounter and implement underlying computer graphical techniques, primarily using SketchUp software and other packages. Concepts will be discovered and developed primarily through lab work, as well as lectures and online resources. Some models will be brought into the physical world with 3D printing.

Evaluation and Grading: Exercises and projects.

3203 or 307 WEB DESIGN

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Information Processing

Goals and Objectives: The student will develop an awareness and knowledge of good web design, including correct use of fonts, color, layout, and writing style. He will develop multi-page web sites with a variety of special features. He will learn the importance of aesthetic design principles, their application, and their relationship to web design technology, as well as develop an understanding of the legal and ethical implications of publishing online.

Content and Methods: This course is for students who have an interest in web development. It is a hands-on course that introduces the concepts of good web page development and allows the student to apply these skills as they develop individual and group projects. Skills that they will

COMPUTER SCIENCE COURSE DESCRIPTIONS

learn include: HTML; image manipulation; animation; CSS, Javascript, design principles, web analytics, and legal and ethical implications.

Evaluation and Grading: Exercises and projects.

3204 or 308

GAME PROGRAMMING

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Information Processing

Goals and Objectives: This course is recommended for students who are interested in exploring more in-depth aspects of design as it specifically applies to the area of game development. Concepts will be introduced through class lectures, practical application achieved through lab exercises and homework. The student will be introduced to the concepts and techniques of creating either Java-based game programs using the Java language or GameMaker software. He will enhance design skills in the context of the animation framework, imaging, sound and sprites.

Content and Methods: Students will be introduced to design elements as it relates to the aspects of game development. The application of an animation framework, windows, applets and full screen will be implemented. Buffering, speed control, and applying visual effects is also presented. Sound will be implemented using playback clips, streamed audio and MIDI sequences and audio synthesis. Finally, will be the introduction of Sprites and the packaging of the entire game for portability.

Evaluation and Grading: Programming assignments, homework, quizzes and tests.

3205 or 309

MOBILE DEVICE APPLICATION DEVELOPMENT

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Information Processing

Goals and Objectives: The student will develop an awareness and knowledge of mobile device application design. Students will develop web based applications using open source, standards-based web technologies. Students will learn programming concepts while developing Android applications with a variety of special features, including functional logic, multimedia, animation, data interfaces, and data storage.

Content and Methods: This course is for students who have an interest in mobile device application development. It is a hands-on course that introduces the concepts of development and allows the students to apply these skills as they create their individual and group projects. Skills that they will be introduced to include: HTML5; image manipulation; animation; authoring environment/app market place; design principles; and legal and ethical implications. Students will use MIT's App Inventor and learn the basics of programming.

Evaluation and Grading: Summative assessments (performance tasks or quizzes) and performance assessments (exercises and projects).

3221 or 305

INTRODUCTION TO JAVA PROGRAMMING

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Information Processing

Goals and Objectives: The student will be provided an introduction to computer programming and problem-solving methods using the Java programming language. He will be introduced to computer architecture, data representation, and programming process and structure.

Content and Methods: Introduction to Java syntax, program development, and problem-solving techniques. This is an excellent first course for the student interested in learning more about computer languages and how computers function. Problem-solving and documentation skills are emphasized in classroom lectures and programming projects. Lab exercises, research, and homework cover practical and theoretical applications.

Evaluation and Grading:

Programming assignments, homework, quizzes, and quarter exams.

3321* or 370*

AP COMPUTER SCIENCE A

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Introduction to Java Programming with a grade of 85 or better **AND** permission from instructor.

Goals and Objectives: The course provides preparation for the Advanced Placement Computer

COMPUTER SCIENCE COURSE DESCRIPTIONS

Science A Examination. In particular, the course introduces college level programming concepts such as object oriented programming, development and evaluation of sorting algorithms, and the standard Java API.

Content and Methods: For students interested in further study of computer science, this rigorous and in-depth one-semester course covers program design, implementation and analysis. Students will write programs that utilize the object oriented principals of design: inheritance, polymorphism, data abstraction, information hiding, and encapsulation. In addition, students work with programming structures such as Strings and Array Lists built in to the Java API. The course features class lectures, lab work, selected readings, case studies and homework.

Evaluation and Grading: Programming assignments, homework, quizzes, paper, and quarter exams.

381* COMPUTER SCIENCE AB

Grades 11, 12 / 1 Semester / .50 Credit

Prerequisites: AP Computer Science A AND permission of instructor.

Goals and Objectives: The course focuses on design, implementation and analysis of various data structures using Java.

Content and Methods: Beginning where AP Computer Science A leaves off, this One Semester class builds on program design, implementation and algorithm analysis techniques presented in the AP Computer Science

A course. In addition, this class focuses on data structures and analysis such as stacks, queues, sets, maps, lists and hash tables. Concepts introduced through class lectures, lab work, selected readings, case studies, and homework.

Evaluation and Grading: Programming assignments, homework, quizzes, group project, and quarter exams.

368* AP COMPUTER SCIENCE PRINCIPLES – APP DEVELOPMENT

Grades 11, 12 / 1 Semester / .50 Credit

Prerequisites: Department Approval

Goals and Objectives: This course introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world, with a unique focus on creative problem solving and real-world applications.

Content and Methods: In this portion of this course, students will cover the principals of abstracting, storing data, collaborating, creating, and programming by using App Inventor to create apps for android phone and tablets. [Note: Students must also enroll in course AP CSP – Impact to take the AP Computer Science Principles exam.]

Evaluation and Grading: Programming assignments, homework, quizzes, group project, and quarter exams.

369* AP COMPUTER SCIENCE PRINCIPLES – IMPACT

Grades 11, 12 / 1 Semester / .50 Credit

Prerequisites: A minimum of a C in AP Computer Science Principles – Application Development and Department Approval

Goals and Objectives: Coupled with the prior AP course, this completes the official AP Computer Science Principles curriculum.

Content and Methods: In this portion of the course, principles from the first course, including android app development, will be reinforced and additional principles of problem analysis, data analysis, algorithms, the internet, cybersecurity, and impacts of computing on the world and society will be covered. Students will complete the College Board required portfolio and prepare to take the AP Computer Science Principles exam. Students are encouraged, but not required, to sit for the College Board AP Exam.

Evaluation and Grading: Programming assignments, homework, quizzes, group project, and quarter exams.

372 TECHNOLOGY SERVICE EXPERIENCE

Grades 11, 12 / 1 Semester / .50 Credit

Prerequisites: Information Processing and at least one additional Computer Science elective, in addition to departmental approval

COMPUTER SCIENCE COURSE DESCRIPTIONS

Goals and Objectives: This course provides an opportunity for students to grow and develop technology skills, implementing solutions with a non-profit organization. This course is an opportunity to live the “man for others” motto of St. Xavier High School, as he brings his skills, knowledge, and talent to a client organization that has real needs. In meeting this need with his solution team, a student will better understand the mission and core work of a client organization.

Content and Methods: Student teams will design, develop, and deliver technology solutions based on the needs of non-profit client organizations. Students will gain practical experience and skills that lead to successful projects – project management, needs assessment, solution design, technical development, training, and solution handover. Students will also improve interpersonal and collaboration skills while gaining a unique understanding of the mission of their client organization.

Evaluation and Grading: Milestone project deliverables, homework, quizzes, project success criteria, peer reviews, and client evaluation.

373 BROADCAST JOURNALISM I

Grades 11, 12 / 1 Semester / .50 Credit

Prerequisites: Information Processing.

Goals and Objectives: This course will focus on the fundamentals and purpose, context, voice, techniques and structure for effective broadcast communication. The class will take

students on an exploration of the ever growing and ever changing world of media. Students will be actively engaged with various forms of media in order to understand the processes and theories associated with media.

Content and Methods: This course introduces the student to the media industry, including but not limited to: Broadcast Journalism, Public Relations, News Reporting and Writing and Television Production.

Evaluation and Grading: Grades will be based on a variety of project-based assessments. Students are required to complete additional activities outside of the traditional school day (most will be associated with school related activities) as assigned by the Course Instructor.

374 BROADCAST JOURNALISM II

Grades 11, 12 / 1 Semester / .50 Credit

All interested students MUST meet with the Director of Communications and Marketing prior to registration to determine their spot in the course.

Prerequisites: Broadcast Journalism I AND permission of the instructor.

Goals and Objectives: This course will build upon the fundamentals of Broadcast Journalism I with a deeper focus on production in broadcast communication. The class will take students on an exploration of the ever growing and ever changing world of media. Students will be actively engaged with various forms of media in order to understand the processes and theories associated with media.

Content and Methods: This course expands the student knowledge in the media industry, including but not limited to: Broadcast Journalism, Public Relations, News Reporting and Writing and Television Production.

Evaluation and Grading: Grades will be based on a variety of project-based assessments. Students are required to complete additional activities outside of the traditional school day (most will be associated with school related activities) as assigned by the Course Instructor.

WORLD LANGUAGES COURSE DESCRIPTIONS

WORLD LANGUAGES

An asterisk (*) denotes an honors or advanced course that requires teacher approval and/or a required entrance assessment.

CHINESE

4140 or 414

CHINESE 1

Grades 9, 12 / 2 Semesters /1 Credit

Goals and Objectives: To develop skills in the fundamentals of the Chinese Language; to develop an understanding of the basic grammar and syntax of the Chinese Language. To develop listening, speaking, reading and writing skills in Chinese; to promote the use of Chinese in free communication; to promote creativity with the language; to introduce the students to written and oral expression; to promote cultural appreciation and enjoyment of Chinese; to use Chinese beyond the school setting.

Content and Methods: *Materials:*

textbook, workbook, laboratory manual, satellite TV and radio broadcasts, other audio and video selections, selected readings, dictations, Internet resources.

Methods: question/answer sessions; drills; dialogues between teacher and class, between teacher and individual students, between student peers; written and oral exercises and presentations.

Evaluation and Grading: Written and oral quizzes, tests, quarter exams, homework.

4240

CHINESE 2

Grades 9, 10 / 2 Semesters /1 Credit

Prerequisites: Chinese 1 or passing a qualifying test.

Goals and Objectives: To continue and reinforce the skills learned in Chinese 1; to introduce complex sentences; to give considerable attention to pronunciation, fluency, and intonation; to emphasize the written aspects of the language; to build vocabulary and develop good reading habits; to encourage the students to speak Chinese among themselves and with other speakers of Chinese; to use Chinese beyond the school setting.

Content and Methods: *Materials:*

textbook, workbook, laboratory manual, satellite TV and radio broadcasts, other audio and video selections, selected readings, dictations, Internet resources. *Methods:* question/answer sessions; drills; dialogues between teacher and class, between teacher and individual students, between student peers; written and oral exercises and presentations.

Evaluation and Grading: Written and oral quizzes, tests, quarter exams, homework.

4340 or 434

CHINESE 3

Grades 10, 11 / 2 Semesters /1 Credit

Prerequisites: Chinese 2 or passing a qualifying test.

Goals and Objectives: To continue and reinforce the skills learned in Chinese 2; to introduce complex sentences; to give considerable

attention to pronunciation, fluency, and intonation; to emphasize the written aspects of the language; to build vocabulary and develop good reading habits; to encourage the students to speak Chinese among themselves and with other speakers of Chinese; to use Chinese beyond the school setting.

Content and Methods: *Materials:* textbook, workbook, laboratory manual, satellite TV and radio broadcasts, other audio and video selections, selected readings, dictations, Internet resources. *Methods:* question/answer sessions; drills; dialogues between teacher and class, between teacher and individual students, between student peers; written and oral exercises and presentations.

Evaluation and Grading: Written and oral quizzes, tests, quarter exams, homework.

468

AP CHINESE

Grades 11, 12 / 2 Semesters /1 Credit

Prerequisites: An average of 90% or above in Chinese 3.

Goals and Objectives: To develop the ability to understand spoken Chinese in various contexts; to develop a Chinese vocabulary sufficient for reading newspaper and magazine articles, literary texts, and other non-technical writings without heavy dependence on a dictionary; and to develop the ability to express oneself in Chinese, both orally and in writing, coherently, resourcefully, and with reasonable fluency and accuracy. There will be strong

WORLD LANGUAGES COURSE DESCRIPTIONS

emphasis on preparing for the AP exam.

Content and Methods: *Materials:* Advanced level textbook; workbook, audio CD; videos; and selected works of Chinese literature. Guided conversations, group discussion and dictations; oral presentations; lectures in Chinese based on readings and Chinese linguistic expression; regular review of grammar and intensive practice in writing and listening comprehension.

Evaluation and Grading: Classroom performance and preparation; composition and other assignments; oral presentation; quizzes, tests, and exams. Students should expect and average of 30 minutes of homework per night.

*Students will be required to complete summer course work before beginning this class.

FRENCH

4100 or 410

FRENCH 1

Grades 9, 12 / 2 Semesters /1 Credit

Goals and Objectives: To develop skills in the fundamentals of the French language; to develop an understanding of the basic grammar and syntax of the French language. To develop listening, speaking, reading and writing skills in French; to promote the use of French in free communication; to promote creativity with the language; to introduce the students to written and oral expression; to promote cultural appreciation and enjoyment of French; to use French beyond the school setting.

Content and Methods: *Materials:* textbook, workbook, laboratory manual, satellite TV and radio broadcasts, other audio and video selections, selected readings, dictations, Internet resources. *Methods:* question/answer sessions; drills; dialogues between teacher and class, between teacher and individual students, between student peers; written and oral exercises and presentations.

Evaluation and Grading: Written and oral quizzes, tests, quarter exams, homework.

4200

FRENCH 2

Grades 9, 10 / 2 Semesters /1 Credit

Prerequisites: French 1 or passing a qualifying test.

Goals and Objectives: To continue and reinforce the skills learned in French I; to introduce complex sentences; to give considerable attention to pronunciation, fluency, and intonation; to emphasize the written aspects of the language; to build vocabulary and develop good reading habits; to encourage the students to speak French among themselves and with other speakers of French; to use French beyond the school setting.

Content and Methods: *Materials:* textbook, workbook, laboratory manual, satellite TV and radio broadcasts, other audio and video selections, selected readings, dictations, Internet resources. *Methods:* question/answer sessions; drills; dialogues between teacher and class, between teacher and individual students, between student peers;

written and oral exercises and presentations.

Evaluation and Grading: Written and oral quizzes, tests, quarter exams, homework.

4300 or 430

FRENCH 3

Grades 10, 11 / 2 Semesters /1 Credit

Prerequisites: French 2

Goals and Objectives: To continue the reinforcement of the four skills: reading, writing, listening and speaking; to strengthen reading skills using selections from French literature and contemporary reading materials; to continue to develop writing skills and oral fluency for communication and personal expression; to promote a better knowledge of the culture of France and the Francophone world; to use French beyond the school setting.

Content and Methods: *Materials:* textbook, workbook, laboratory manual, satellite TV and radio broadcasts, other audio and video selections, selected readings, dictations, Internet resources. *Methods:* question/answer sessions; drills; dialogues between teacher and class, between teacher and individual students, between student peers; written and oral exercises and presentations.

Evaluation and Grading: Written and oral quizzes, tests, quarter exams, homework.

WORLD LANGUAGES COURSE DESCRIPTIONS

4305* HONORS FRENCH 3 or 436* ACCELERATED FRENCH 3 *Grades 10, 11 / 2 Semesters /1 Credit*

Prerequisites: An average of 90 or above in French 2 and successful completion of a required entrance assessment.

Goals and Objectives: To highly develop conversational French skills, writing skills and expand Francophone cultural knowledge. Students will explore Francophone countries and culture through readings, documentaries, music, films, and cuisine, developing an expanded vocabulary through regular reading, writing, and conversation oriented assignments. This class is an introduction to the French Language AP course, and students will have many opportunities to practice a variety of modified tasks that are on the French Language AP exam.

Content and Methods: Materials include textbook (print copy & online), workbook, selected literary works, news articles, and Internet resources. The class will be conducted in French and will include guided conversations and dictations, oral presentations, lectures, including regular reviews of grammar as needed, with intensive practice in listening and reading comprehension.

Evaluation and Grading: Classroom practice, homework assignments, emails, telephone conversations, cultural comparisons, persuasive essays, quizzes, tests, and quarter exams. Students should expect an average of 30 minutes of homework per night.

*Student will be required to complete summer course work before beginning this class.

445 FRENCH COMPOSITION AND CONVERSATION *Grades 11, 12 / 2 Semesters /1 Credit*

Prerequisites: French 3 or AP French

Goals and Objectives: To develop insight and appreciation of French film, literature, history, art, social and current events, politics, and geography. To provide students with opportunities to further enhance their proficiencies, cultural perspective, and lingual fluency via an in-depth study of the four primary skills: reading, writing, speaking and listening. This course may precede the AP course with an emphasis on applicable AP content. Lectures and discussions are held primarily in French.

Content and Methods: *Materials:* Selected works of French literature, culture, and assorted authentic resources; notebook; dictionary
Methods: guided conversation, group discussions, listening activities, oral presentations by the students, lectures in French on readings and culture, appropriate Internet materials, review of grammar, and intensive practice in writing varied compositions.

Evaluation and Grading: Classroom performance and preparation; compositions and other assignments; readings; oral presentations; quizzes and exams. Students should expect an average of 30 minutes of homework per night.

479 AP FRENCH LANGUAGE *Grades 11, 12 / 2 Semesters /1 Credit*

Prerequisites: An average of 88 or above in Honors French 3 or French Composition & Conversation OR an average of 90 or above in French 3.

Goals and Objectives: All students are encouraged to continue their study of French, whether with French Composition and Conversation or AP French. But AP French Language and Culture is an advanced course focusing on interpersonal, interpretive and presentational communication, with continuous emphasis on speaking, reading, writing and listening. Students who enroll in this course are expected to have a command of grammar, and therefore their competence in listening, reading, speaking and writing will be assessed before they gain entrance to the class. The course is centered on six cultural themes: Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Families and Communities, and Beauty and Aesthetics. Classes are conducted exclusively in French in an atmosphere of total immersion. Students are expected to use French exclusively and will be evaluated on their use of French in the classroom. They will have access to a variety of authentic materials such as news broadcasts and will become skilled at making comparisons between cultures. They are encouraged to be self-motivated and to show evidence of becoming lifelong learners of French.

Content and Methods: *Materials:* Advanced level textbook; dictionary; selected works of French

WORLD LANGUAGES COURSE DESCRIPTIONS

literature. *Method:* Guided conversation; group discussions; oral presentations by the students; compositions; lectures in French on readings, CDs; films; French news articles; French TV; intensive practice in writing both formal and informal.

Evaluation and Grading: Classroom performance and preparation; compositions and other assignments; readings; oral presentations; tests and exams. Students should expect an average of 30 minutes of homework per night.

*Students will be required to complete summer course work before beginning this class.

GERMAN

4110 or 411

GERMAN 1

Grades 9, 12 / 2 Semesters /1 Credit

Goals and Objectives: To develop skills in the fundamentals of the German language; to develop an understanding of the basic grammar and syntax of the German language; to acquire a workable foundation of vocabulary; to develop listening, speaking, reading and writing skills in German; to promote the use of German in free communication both within the school setting and beyond the classroom; to promote creativity with the language; to introduce the students to written and oral expression; to introduce the geography of German-speaking countries; to promote and emphasize German culture and enjoyment of German.

Content and Methods: *Materials:* electronic textbook, online dictionary

(English – German; German – English), audio and video selections, selected readings, dictations, internet resources. Other books that the teacher requests. *Methods:* question/answer sessions; drills; dialogues between teacher and class, between teacher and individual students and among students.

Evaluation and Grading: Written, audio and oral quizzes, tests, quarter exams, skits, homework, projects, online activities and individual/group presentations.

4210

GERMAN 2

Grades 9, 10 / 2 Semesters /1 Credit

Prerequisites: German 1 or passing a qualifying test.

Goals and Objectives: To continue to reinforce the skills learned in German I; to introduce complex sentence structures and a wider range of verb tenses; to give considerable attention to pronunciation, fluency and intonation; to emphasize the written and spoken aspects of the language; to continue to build vocabulary and develop good reading and listening habits; to promote the use of German in free communication both within the school setting and beyond the classroom; to promote creativity with the language; to review and advance the study of the geography of German-speaking countries; to promote and emphasize German culture and enjoyment of German.

Content and Methods: *Materials:* electronic textbook, online dictionary (English – German; German – English), audio and video selections, selected readings, dictations, internet

resources and other books that teacher requests. *Methods:* question/answer sessions; drills; dialogues between teacher and class, between teacher and individual students and among students.

Evaluation and Grading: Written, audio and oral quizzes, tests, quarter exams, skits, homework, projects, online activities and individual/group presentations.

4310 or 431

GERMAN 3

Grades 10, 11 / 2 Semesters /1 Credit

Prerequisites: German 2

Goals and Objectives: To continue the reinforcement, strengthening and enhancement of the four major skill areas: reading, writing, listening and speaking by using selections from contemporary authentic German literary sources; using writing skills and oral fluency for communication and personal expression; to promote an enhanced knowledge of the culture of Germany and German-speaking countries; To reinforce and enhance the knowledge of geography of German-speaking countries; to promote and emphasize the use of language outside of the classroom setting including with native speakers.

Content and Methods: *Materials:* electronic textbook, online dictionary (English – German; German – English), audio and video selections, selected readings, dictations, internet resources and other books that the teacher requests. *Methods:* question/answer sessions; drills; dialogues between teacher and class,

WORLD LANGUAGES COURSE DESCRIPTIONS

between teacher and individual students and among students.

Evaluation and Grading: Written, audio and oral quizzes, tests, quarter exams, skits, homework, projects, online activities and individual/group presentations and one-on-one teacher - student interviews.

4315* HONORS GERMAN 3 or 437* ACCELERATED GERMAN 3 *Grades 10, 11 / 2 Semesters /1 Credit*

Prerequisites: An average of 90 or above in German 2 and successful completion of a required entrance assessment.

Goals and Objectives: To highly develop conversational German skills, writing skills and expand German cultural knowledge. Students will explore German-speaking countries and culture through readings, documentaries, music, films, and cuisine, developing an expanded vocabulary through regular reading, writing, and conversation oriented assignments. This class is an introduction to the German Language AP course, and students will have many opportunities to practice a variety of modified tasks that are on the German Language AP exam.

Content and Methods: Materials include textbook (print copy & online), workbook, selected literary works, news articles and internet resources. The class will be conducted in German and will include guided conversations and dictations; oral presentations; lectures, including regular review of grammar as needed,

with intensive practice in listening and reading comprehension.

Evaluation and Grading: Classroom practice, homework assignments, emails, telephone conversations, cultural comparisons, persuasive essays, quizzes, tests, and quarter exams. Students should expect an average of 30 minutes of homework per night.

*Students will be required to complete summer course work before beginning this class.

4410* or 471* **AP GERMAN LANGUAGE** *Grades 11, 12 / 2 Semesters /1 Credit*

Prerequisites: An average of 88 or above in Honors German 3, or an average of 90 or above in German 3, and successful completion of a required entrance assessment.

Goals and Objectives: To provide students with ongoing and varied opportunities to further develop their proficiencies across the full range of language skills. To develop the ability to understand spoken German in various contexts; to develop a German vocabulary sufficient for reading newspaper and magazine articles, literary texts, and other non-technical writings without dependence on a dictionary; and to develop the ability to express oneself in German, both orally and in written form, coherently, resourcefully, and with reasonable fluency and accuracy. There will be strong emphasis on culture, the six global themes and preparing for the AP exam.

Content and Methods: Materials include textbook (print copy &

online), workbook, selected literary works, news articles and internet resources. The class will be conducted in German and will include guided conversations and dictations; oral presentations; lectures, including regular review of grammar as needed, with intensive practice in listening and reading comprehension.

Evaluation and Grading: Classroom practice, homework assignments, emails, telephone conversations, cultural comparisons, persuasive essays, quizzes, tests and quarter exams. Students should expect an average of 30 minutes of homework per night.

*Students will be required to complete summer course work before beginning this class.

LATIN

4120 or 412 **LATIN 1** *Grades 9, 12 / 2 Semesters /1 Credit*

Goals and Objectives: To learn the fundamentals of the Latin language through translation of sentences from Latin to English and vice versa; to read and comprehend simple Latin stories that describe Roman civilization, history and mythology; to participate in simple conversation, questions and answers in Latin; to master the five declensions and the four conjugations necessary for reading and understanding the language; to develop a Latin vocabulary from which many English words are derived.

Content and Methods: *Materials:* 1st year textbook. Emphasis will be on oral drills, written exercises,

WORLD LANGUAGES COURSE DESCRIPTIONS

translation of stories, grammar explanations, conversation and bringing students quickly to the point where they can read Latin with confidence and become familiar with life in the early Roman Empire.

Evaluation and Grading: Quizzes on forms, grammar and/or vocabulary; tests; homework.

4220

LATIN 2

Grades 9, 10 / 2 Semesters /1 Credit

Prerequisites: Latin 1 or passing a qualifying test.

Goals and Objectives: To review first-year Latin concepts and to continue developing skills of reading and writing the language, constructing original thoughts of their own in Latin, and translating from Latin to English as well as from English to Latin; to introduce additional grammatical topics necessary for reading original Latin authors.

Content and Methods: *Materials:* 2nd year textbook. Emphasis is on oral drills, written exercises, building vocabulary and beginning to sample authentic original Latin authors.

Evaluation and Grading: Unit tests on translation, morphology and syntax; quizzes on vocabulary and forms; tests on the recognition of Latin forms.

4320 or 432

LATIN 3

Grades 10, 11 / 2 Semesters /1 Credit

Prerequisites: Latin 2

Goals and Objectives: To use *Ecce Romani* volume III as a launching pad into authentic Latin — specifically the poetry of Catullus and Ovid (happy, sad, wicked and wonderful), the prose of Caesar and Cicero (brilliant and devastating) and, best of all, generous selections from Book II of Virgil's Aeneid (the tale of the fall of Troy). We will also read generous selections from Homer's *Iliad* and *Odyssey* in English translation.

Content and Methods: Emphasis is on the art of translation, rhetoric, explication of the text, and the usage of Latin idioms and figures of speech.

Evaluation and Grading: Tests and quizzes on vocabulary, recognition of Latin forms, usage of Latin idioms and figures of speech, and comprehension of the authors read.

4325* HONORS LATIN 3 or 438* ACCELERATED LATIN 3

Grades 10, 11 / 2 Semesters /1 Credit

Prerequisites: An average of 85 or above in Latin 2 and approval of Latin 2 teacher.

Goals and Objectives: To use *Ecce Romani* volume III as a launching pad into authentic Latin — specifically the poetry of Catullus and Ovid (happy, sad, wicked and wonderful), the prose of Caesar and Cicero (brilliant and devastating) and, best of all, generous selections from Book II of Virgil's Aeneid (the tale of the fall of Troy). We will also read generous selections from Homer's *Iliad* and *Odyssey* in English translation. Honors Latin III covers the same authors as regular Latin III, but at a faster pace that will take in even more text.

Content and Methods: Emphasis is on the art of translation, rhetoric, explication of the text, and the usage of Latin idioms and figures of speech.

Evaluation and Grading: Tests and quizzes on vocabulary, recognition of Latin forms, usage of Latin idioms and figures of speech, and comprehension of the authors read. Students should expect an average of 20 minutes of homework per night.

*Students will be required to complete summer course work before beginning this class.

4420* or 488*

LATIN LITERATURE

Grades 11, 12 / 2 Semesters /1 Credit

Prerequisites: Latin 3 and Latin 3 teacher's approval.

Goals and Objectives: To continue exploration of authentic ancient Roman literature through a semester apiece of prose (Caesar, Cicero, Livy or Sallust) and a semester of poetry (Plautus, Horace or Ovid). Students will continue to develop their command of Latin grammar and appreciation of ancient culture.

Content and Methods: Various levels of translation; analysis of grammar, style, rhythm and structure; occasional presentation, collaboration and creative expression.

Evaluation and Grading: Regular translation quizzes and tests; in-class writings about the authors' achievements; presentations and class leadership/participation. Students should expect an average of 30 minutes of homework per night.

WORLD LANGUAGES COURSE DESCRIPTIONS

*Students will be required to complete summer course work before beginning this class.

4425* or 496*

AP LATIN

Grades 11, 12 / 2 Semesters /1 Credit

Prerequisites: Latin 3 and current AP Latin teacher's approval.

Goals and Objectives: To explore two contrasting masterpieces of ancient literature: Caesar's *De bello Gallico* and Virgil's *Aeneid*. We'll sample 4 books of Caesar (some in Latin, some in English) and consider Virgil's epic in its entirety -- ca. 800 lines in Latin, plus the rest in English translation. We'll contemplate its place in the genre of epic poetry (particularly as compared to Homer's *Iliad* and *Odyssey*) as well as its considerable significance culturally and politically.

Content and Methods: Various levels of translation; analysis of grammar, style, rhythm and structure; occasional presentation, collaboration and creative expression.

Evaluation and Grading: Regular translation quizzes and tests; in-class writings about Caesar and Virgil's work; presentations and class leadership/participation. Students should expect an average of 20 minutes of homework per night.

*Students will be required to complete summer course work before beginning this class.

SPANISH

4130 or 413

SPANISH 1

Grades 9, 12 / 2 Semesters /1 Credit

Goals and Objectives: To develop skills in the fundamentals of the Spanish language; to develop an understanding of the basic grammar and syntax of the Spanish language; to acquire a workable foundation of vocabulary; to develop listening, speaking, reading and writing skills in Spanish; to promote the use of Spanish in free communication both within the school setting and beyond the classroom; to promote creativity with the language; to introduce the students to written and oral expression; to introduce the geography of Spanish-speaking countries; to promote and emphasize Hispanic culture and enjoyment of Spanish.

Content and Methods: *Materials:* online textbook/workbook, audio and video selections, selected readings, dictations, internet resources. Other books that the teacher requests. *Methods:* question/answer sessions; drills; dialogues between teacher and class, between teacher and individual students and among students.

Evaluation and Grading: Written, audio and oral quizzes, tests, quarter exams, skits, homework, projects, online activities and individual/group presentations.

4230

SPANISH 2

Grades 9, 10 / 2 Semesters /1 Credit

Prerequisites: Spanish 1 or passing a qualifying test.

Goals and Objectives: To continue to reinforce the skills learned in Spanish I; to introduce complex sentence structures and a wider range of verb tenses; to give considerable attention to pronunciation, fluency and intonation; to emphasize the written and spoken aspects of the language; to continue to build vocabulary and develop good reading and listening habits; to promote the use of Spanish in free communication both within the school setting and beyond the classroom; to promote creativity with the language; to review and advance the study of the geography of Spanish-speaking countries; to promote and emphasize Hispanic culture and enjoyment of Spanish.

Content and Methods: *Materials:* textbook/workbook, audio and video selections, selected readings, dictations, internet resources and other books that the teacher requests. *Methods:* question/answer sessions; drills; dialogues between teacher and class, between teacher and individual students and among students.

Evaluation and Grading: Written, audio and oral quizzes, tests, quarter exams, skits, homework, projects, online activities and individual/group presentations.

4330 or 433

SPANISH 3

Grades 10, 11 / 2 Semesters /1 Credit

Prerequisites: Spanish 2

Goals and Objectives: To continue the reinforcement, strengthening and enhancement of the four major skill areas: reading, writing, listening and speaking by using selections from

WORLD LANGUAGES COURSE DESCRIPTIONS

contemporary authentic Hispanic literary sources; using writing skills and oral fluency for communication and personal expression; to promote an enhanced knowledge of the culture of Spain and Latin America; to reinforce and enhance the geography of Spanish-speaking countries; to promote and emphasize the use of language outside of the classroom setting including with native speakers.

Content and Methods: *Materials:* online textbook/workbook, audio and video selections, selected readings, dictations, internet resources and other books that the teacher requests. *Methods:* question/answer sessions; drills; dialogues between teacher and class, between teacher and individual students and among students.

Evaluation and Grading: Written, audio and oral quizzes, tests, quarter exams, skits, homework, projects, online activities and individual/group presentations and one-on-one teacher - student interviews.

4335* HONORS SPANISH 3 or 435* ACCELERATED SPANISH 3

Grades 10, 11 / 2 Semesters /1 Credit

Prerequisites: An average of 90% or above in Spanish 2 and successful completion of a required entrance assessment.

Goals and Objectives: To highly develop conversational Spanish skills, writing skills and expand Hispanic cultural knowledge. Students will explore Hispanic countries and culture through readings, documentaries, music, and films, developing an expanded vocabulary

through regular reading, writing, and conversation oriented assignments. This class is an introduction to the Spanish Language AP course, and students will have many opportunities to practice a variety of modified tasks that are on the Spanish Language AP exam.

Content and Methods: Materials include: online textbook/workbook, selected literary works, news articles and Internet resources. The class will be conducted in Spanish and will include guided conversations and dictations; oral presentations; lectures, including regular reviews of grammar as needed, with intensive practice in listening and reading comprehension.

Evaluation and Grading: Classroom practice, homework assignments, emails, telephone conversations, cultural comparisons, persuasive essays, quizzes, tests, and quarter exams. Student can expect an average of 30 minutes of homework per night.

*Students will be required to complete summer course work before beginning this class.

4430 or 446

SPANISH COMPOSITION AND CONVERSATION

Grades 11, 12 / 2 Semesters /1 Credit

Prerequisites: Spanish 3 or AP Spanish Language or AP Spanish Literature.

Goals and Objectives: To provide students with ongoing and varied opportunities to further develop their proficiencies across the full range of language skills. To develop insight and appreciation of Spanish film,

literature, history, art, social and current events, politics, and geography. To continue to develop the ability to express oneself in Spanish, both orally and in writing, coherently, resourcefully, and with reasonable fluency and accuracy.

Content and Methods: All lectures and discussions are in Spanish. *Materials:* Textbook; selected works of Spanish literature and culture; notebook; dictionary. Guided conversations; group discussions; oral presentations by the students; lectures in Spanish on readings; films; Internet resources; regular review of grammar and intensive practice in writing.

Evaluation and Grading: Classroom discussions; papers and other assignments; readings; presentations; tests, quizzes and exams. Students should expect an average of 20-30 minutes of homework per night.

4535* or 473*

AP SPANISH LANGUAGE

Grades, 11, 12 / 2 Semesters /1 Credit

Prerequisites: An average of 88% or above in Honors Spanish 3 or Spanish Composition and Conversation or AP Spanish Literature OR an average of 90% or above in Spanish 3, and current AP Spanish teacher's approval.

Goals and Objectives: To provide students with ongoing and varied opportunities to further develop their proficiencies across the full range of language skills. To develop the ability to understand spoken Spanish in various contexts; to develop a Spanish vocabulary sufficient for reading newspaper and magazine articles, literary texts, and other non-technical

WORLD LANGUAGES COURSE DESCRIPTIONS

writings without dependence on a dictionary; and to develop the ability to express oneself in Spanish, both orally and in written form, coherently, resourcefully, and with reasonable fluency and accuracy. There will be strong emphasis on culture, the six global themes and preparing for the AP exam.

Content and Methods: *Materials:* textbook (print copy and online), selected literary works and news articles; Internet resources. *Methods:* Guided conversations and dictations; oral presentations; lectures in Spanish based on readings and Spanish linguistic expression; regular review of grammar and intensive practice in writing and listening comprehension. The class will be conducted almost entirely in Spanish.

Evaluation and Grading: In-class assessments, essays, homework and quarter exams. Students should expect an average of 30 minutes of homework per night.

*Students will be required to complete summer course work before beginning this class.

4435 or 497

AP SPANISH LITERATURE

Grades 11, 12 / 2 Semesters / 1 Credit

Prerequisites: An average of 90% or above in Honors Spanish 3 or Spanish Composition & Conversation or AP Spanish Language.

Goals and Objectives: To provide students with ongoing and varied opportunities to further develop their proficiencies across the full range of language skills — with special attention to critical reading and analytical writing — and to encourage

them to reflect on the many voices and cultures included in a rich and diverse body of literature written in Spanish. To continue to develop the ability to express oneself in Spanish, both orally and in writing, coherently, resourcefully, and with reasonable fluency and accuracy. To become more aware that within Spanish and Latin American cultures there exists a wealth of human endeavor and thought.

Content and Methods: This course is taught exclusively in Spanish and students are required to speak and write in Spanish, as well as read authentic works of literature and literary critiques and listen to authentic interviews with Spanish and Latin American authors and other authentic recordings. Required reading list provided by College Board. Internet resources, lectures and class discussion aimed at developing an appreciation of major genres, styles and themes in Hispanic Literature. There will be strong emphasis on preparing for the AP Exam.

Evaluation and Grading: Class discussions, essays, presentations, quizzes, tests, quarter exams. Students should expect an average of 30-45 minutes of homework per night.

*Students will be required to complete summer course work before beginning this class.

ELECTIVES

480

GREEK 1

Grades 11, 12 / 2 Semesters / 1 Credit

Goals and Objectives: This course is aimed at a reading knowledge of ancient Greek to enable the student to read generous portions of Homer's *Odyssey* and some excerpts from Homer's *Iliad* in the original Greek. Students develop the ability to read excerpts from various historians, philosophers, tragedians, comedians, and poets written in Greek. Students make a survey of the many English words which are derived from the Greek language. Students read some portions of the Bible in Greek.

Content and Methods: *A Reading Course in Homeric Greek* by Schoder and Horrigan is the text. The first 60 lessons concentrate on declensions, conjugations, vocabulary, and syntax necessary to be able to read the Greek. The second 60 lessons concentrate on the actual reading of the Greek and the explication of the text. Students read the text's presentation of the material and write the required exercises. Class time is spent going over these exercises and clarifying any points that remain vague after the student has thoroughly read the text.

Evaluation and Grading: Written and oral quizzes, tests, quarter exams, homework.

485

GREEK 2

Grade 12 / 2 Semesters / 1 Credit

Prerequisites: Greek 1

Goals and Objectives: We'll advance our understanding of the workings of Greek grammar and diction, moving from the Homeric poetry we began to investigate in Greek I to the poetry of other authors as well as some prose. Having become fairly

WORLD LANGUAGES COURSE DESCRIPTIONS

experienced with Homeric forms and vocabulary, we'll begin to learn about the various changes (some great, some small) evident in other ancient Greek dialects, in order to access the literature written in them.

Content and Method: We begin with additional Homeric readings (excerpts from the *Iliad*). In the subsequent quarters, we explore other great Greek authors such as Herodotus (the "father of history," who wrote wonderful tales in prose), Plato (author of the celebrated *Apology*, the greatest speech ever written) and Euripides (the legendary tragedian, whose savage and brilliant *Medea* we'll sample).

Evaluation and Grading: Students can expect frequent short quizzes (at least one or two per week) and regular tests (one every few weeks). Regular preparation for – and participation in – class are absolute requirements for success, as the grade will show.

4820 or 482

PORTUGUESE

Grades 11, 12 / 2 Semesters / 1 Credit

Goals and Objectives: To develop listening, speaking, reading and writing skills in Portuguese; to develop an understanding of the basic grammar and syntax of the Portuguese Language; to promote the use of Portuguese in free communication; to promote creativity and fluency in the language; to introduce the students to written and oral expression; to promote cultural appreciation and enjoyment of Portuguese; to use Portuguese beyond the school setting. To have fun!

Content and Method: *Materials:* selected Brazilian texts, satellite TV and radio broadcasts, other audio and video selections, music, movies, dictations, Internet resources. *Methods:* question/answer sessions; drills; dialogues between teacher and class, between teacher and individual students, between student peers; written and oral exercises and presentations.

Evaluation and Grading: Written and oral quizzes, tests, quarter exams, homework.

444

GREEK MYTHOLOGY

Grades 11, 12 / 1 Semester / .50 Credit

Seniors are given preference in registration.

Goals and Objectives: To gain a rich appreciation of the breadth and depth of Greek mythology as captured by several masterpieces of ancient literature (read, of course, in English translation). To explore multiple versions and variations of the same myth. To learn about what these works reveal about the (ancient Greek) culture that produced them.

Content and Method: We'll read our chosen texts (in modern English translations) in approximate chronological order, beginning around the 7th century B.C., with the foundational works of Hesiod and Homer, then moving into the 5th century B.C., for the complex world of Greek tragedy as represented by three giants, Aeschylus, Sophocles and Euripides. The class will be conducted largely through discussion. Active participation will be as gratifying as it is crucial.

Evaluation and Grading: Regular reading quizzes. Tests after each major work. Quarter exams. Project (with presentation) focused on a post-classical adaptation of one of the myths discussed.

HEALTH / PHYS ED COURSE DESCRIPTIONS

HEALTH / PHYS ED

HEALTH

5239

HEALTH CORE

Grade 10 / 1 Semester / .50 Credit

The CORE course **is required for all sophomores** and designed to offer a variety of activities to explore and discuss current health material and concepts. These activities assist the course objective; to develop the students' ability to make healthy life choices utilizing a variety of decision-making techniques and a broad knowledge of personal and general health. An emphasis will be placed on avoiding the formation of addictive and harmful habits while promoting positive and healthy behaviors.

Goals and Objectives: The objective of the course is to empower students with information, choice skills and self-confidence in the mode of, but not limited to, the Jesuit discernment model of Experience, Reflection, and Action. Students will apply the course objective to a wide range of social, physical and emotional health challenges. The student will develop a deeper, personal understanding of health choices and the ramifications those choices have on wellness. Upon completion of the CORE health course the student will:

- Make informed addictive behavior decisions.
- Demonstrate basic knowledge of body systems, anatomy, physiology and kinesiology.

- Comprehend the adverse effects of drugs, alcohol and tobacco on society and self.
- Understand the adverse life effects of poor choices.
- Discover practical stress management techniques.

Content and Methods: The following topics may be discussed during the course:

Review of general health, sexuality, choice theory, stress management, addictive behaviors, pornography, gaming, drugs, alcohol, tobacco, wellness, nutrition, mental health, fitness, disease, grief, injury, eating disorders, environmental health, etiquette, STD's, social health, heredity and family health issues, life skills, dating, character building and self-esteem.

Evaluation and Grading: Students will receive a numerical grade. Grades will be determined using a variety of measures. Including, but not limited to, homework assignments, presentations to the class, quizzes, projects, exams and "on-line" course work.

PHYS ED

5235

PE CORE 1

Grade 10 / 1 Semester / .25 Credit

This course **is required for all sophomore** students and offers a variety of physical activities which fulfill the course objective; to develop the students' psychological, sociological and physiological growth. Both individual and team concepts are incorporated daily. An emphasis is placed on cooperation and

leadership...beyond the individual student and his "comfort" level. Students will be encouraged to discover expanded levels of physical development, growth and fitness.

Goals and Objectives: The objective of the physical education course is to provide basic skills, knowledge and activities through a variety of sports. An emphasis is placed on the development and maintenance of physical fitness. Opportunities exist to meet and participate with classmates in a relaxed, structured, social atmosphere. Upon completion of the physical education course the student will be able to:

- Perform correct technique through a variety of athletic activities with an emphasis on safety.
- Demonstrate skills specific to the various units such as: strength, flexibility, balance, accuracy in throwing, speed, hand-eye coordination, general coordination, strokes (swimming), endurance (cardio vascular and muscular), lateral movement, catching, team play and kicking.
- Demonstrate greater self-confidence while performing different physical activities.
- Complete a routine which contains basic tumbling movements.
- Accept personal physical and athletic strengths, and limitations, in a positive manner as well as those of his classmates.

Content and Methods: The following units may be offered during the CORE course: physical fitness, touch football, speedball, track, volleyball, swimming, team handball, hockey, water polo, soccer, kickball, wiffleball,

HEALTH / PHYS ED COURSE DESCRIPTIONS

basketball, tae bo, yoga, rowing, rock-it ball, tennis, weight training, and tumbling. The CORE class time is divided between explanation, demonstration and participation.

Evaluation and Grading: Students in the course will receive a “pass” / “fail” grade.

530

PHYS ED 2 FIT

Grades 11, 12 / 1 Semester / .25 Credit

This course is designed to offer a variety of physical activities. These activities assist the course objective; to develop the students’ psychological, sociological and physiological growth. Both individual and team concepts are incorporated daily. An emphasis is placed on cooperation and leadership...beyond the individual student and his “comfort” level. Students will be encouraged to discover expanded levels of physical development and growth.

Goals and Objectives: The objective of the physical education course is to provide advanced skills, knowledge and activities through a variety of activities. An emphasis is placed on developing and maintaining lifetime/personal fitness.

Opportunities exist to meet and participate with classmates in a relaxed, structured, social atmosphere. Upon completion of this physical education course the student will be able to:

- Perform safely and with correct technique all equipment in the fitness center.
- Complete pre and post fitness testing including a one mile (6-15 minute) run.

- Demonstrate skills specific to the various units such as: strength, flexibility, balance, accuracy in throwing, speed, hand-eye coordination, general coordination, strokes and rotary breathing (swimming), endurance (cardio vascular and muscular), lateral movement, catching, and team play.
- Demonstrate self-confidence while performing different physical activities.
- Complete a routine which contains basic tumbling movements.
- Accept personal physical and athletic strengths, and limitations, in a positive manner as well as those of his classmates.

Content and Methods: The following units may be offered during the course: physical fitness, touch football, speedball, track, volleyball, swimming, team handball, soccer, water polo, rug-ball, kickball, waffle ball, basketball, tae bo, yoga, rowing, bowling, tennis, weight training, golf and tumbling. Some class time may be dedicated to completing a fitness portfolio.

Evaluation and Grading: Students in the course will receive a “pass” / “fail” grade.

532

PE 2 ALTER

Grades 11, 12 / 1 Semester / .25 Credit

This personal fitness course is offered to Junior or Senior students who are enrolled in Phys Ed Advanced and **are subsequently “cut” during the selection process.** Students will be enrolled in the course when they meet with the PE/Health Department Chair

AFTER being “cut” from Advanced PE.

Prerequisites: Completion of PE Core 1, Approval of PE/Health Department Chair

Goals and Objectives: The objective of the course is to provide Physical Education credit for participation in a personal fitness course which mirrors and/or exceeds the “in-season” strength and conditioning requirements for an athlete during a typical sport season. These specific skill sets are recognized as unique methods of enhancing muscular and cardio-respiratory development. These activities must establish and maintain an element of physical fitness commensurate with methodology for improving performance.

Content and Methods: Content of the course is at the sole discretion of the St. Xavier Fitness Staff professionals and the PE/Health Department Chair. The training program will contain a cardio-respiratory component, a record of participation and a performance assessment. The student, adult professional supervisor, and PE/Health Department Chair will establish training and assessment expectations upon enrollment into the course following the selection process for the chosen sport.

Evaluation and Grading: Students in the course will receive a “pass” / “fail” grade. All participants MUST meet with the PE/Health Department Chair pre and post assessment. Students are required to attend all pre-assessment activities as specified by the adult supervisor. Periodic observation and communication between the adult

HEALTH / PHYS ED COURSE DESCRIPTIONS

supervisor and the PE/Health Department Chair is required. Students may be required to complete additional activities, post-assessment, as determined by the Department Chair.

535 DANCE

Grades 11, 12 / 1 Semester / .25 Credit

Prerequisites: PE CORE 1

Goals and Objectives: Students will learn, explore, and master the eight fundamental movement patterns that wire the central nervous system. These patterns are the foundation for all dance techniques and styles. Technique will focus on integrating neural patterns with movement analysis of Rudolph Laban and Imgard Bartenieff. Students will successfully demonstrate skill development through performance of specific techniques with use of space, time and dynamics. Problem solving and creative thinking skills will be utilized as students develop movement language to express themselves through choreographic composition. Dance appreciation will include vocabulary, skills of analysis, writing and criticism as well as knowledge of choreographers and dancers both current and historical.

Content and Methods: The content for Dance will follow traditional methods of warm-up; floor and barre work, anaerobic and aerobic activities; axial and locomotor sequences including jumps and turns, and cool down; révérence. Each day student's will experience movement material that is based off the eight fundamental movement patterns which are derived from movement analysis of Laban and

Bartenieff. Students will progress into traditional codified dance syllabus of modern/contemporary, ballet, jazz, and tap in order to execute and perform dance sequences. Students will experience ideas for movement generation for dance composition development and learn how to analyze and articulate dance they observe and produce.

Evaluation and Grading: Grades are based on participation both physically and mentally (body/mind) and skill development as demonstrated through technical demonstration and performance evaluation. Skill evaluation will include teacher, peer, and self-response. Completed projects such as written critiques, choreographic compositions, and choreographer research project provide further insight to the art of dance as well as written tests for vocabulary, terminology and codified dance positions. Video will be a common practice tool for student growth and skill set feedback.

570-596 PHYS ED ADVANCED

Grade 11 / 1 Semester / .25 Credit

This advanced course is offered to Juniors ONLY (no Senior credit is awarded) who participate on a Varsity/JV (*NO CREDIT FOR "RESERVE") sport team offered at St. Xavier. The student MUST have participated in a minimum of one season in the sport chosen. **Students MUST enroll in the course to receive credit...** simply participating is not enrolling in the course and credit will not be awarded.

*Students must see the PE Department Chair to change their chosen sport.

Prerequisites: Completion of PE CORE 1, registration in the course, and participation, in the chosen sport, during freshman and/or sophomore season

Goals and Objectives: The objective of the advanced course is to provide specific skills, knowledge and activities in a single sport. An emphasis will be placed on the development and maintenance of physical fitness as a building block for improved performance. Opportunities exist to meet and participate with classmates in a structured, "team sport" atmosphere.

Content and Methods: Content of the course is at the sole discretion of the Head Coach (in conjunction with the Strength/Conditioning staff) of the chosen sport.

Evaluation and Grading: Students in the course will receive a "pass" / "fail" grade based on the following criteria:

- Attend 75% of all pre-season "strength and conditioning" activities.
- Attendance in 100% of all in-season practices and contests.
- Students may be required to complete additional activities, post-season, as assigned by the Department Chair.

Special Note: Students who complete all pre-season requirements and do not "make the team" may apply for 532/5335 PE CORE 2.

FALL (credit awarded 1st semester)

- 570 Phys Ed Cross Country
- 571 Phys Ed Football
- 572 Phys Ed Golf
- 573 Phys Ed Soccer

HEALTH / PHYS ED COURSE DESCRIPTIONS

- 574 Phys Ed Water Polo
WINTER (credit awarded 2nd semester)
- 580 Phys Ed Basketball
- 581 Phys Ed Hockey
- 582 Phys Ed Swimming
- 583 Phys Ed Wrestling
- 584 Phys Ed Bowling (+required 3 days/week - aerobic conditioning with St. X fitness staff)

SPRING (credit awarded 2nd semester)

- 590 Phys Ed Baseball
- 591 Phys Ed Lacrosse
- 592 Phys Ed Rugby
- 593 Phys Ed Track
- 594 Phys Ed Tennis
- 595 Phys Ed Volleyball
- 596 Phys Ed CJRC (Rowing)

ELECTIVES

541 DANCE 2

Grades 11, 12 / 1 Semester / .25 Credit

Prerequisites: Dance 1 and Instructor Permission.

Goals and Objectives: Students will learn, explore, and master the eight fundamental movement patterns that wire the central nervous system. These patterns are the foundation for all dance techniques and styles. Technique will focus on integrating neural patterns with movement analysis of Rudolph Laban and Irgard Bartenieff. Students will successfully demonstrate skill development through performance of specific techniques with use of space, time and dynamics. Problem solving and creative thinking skills will be utilized as students develop movement language to express

themselves through choreographic composition. Dance appreciation will include vocabulary, skills of analysis, writing and criticism as well as knowledge of choreographers and dancers both current and historical.

Content and Methods: The content for Dance will follow traditional methods of warm-up; floor and barre work, anaerobic and aerobic activities; axial and locomotor sequences including jumps and turns, and cool down; révérence. Each day student's will experience movement material that is based off the eight fundamental movement patterns which are derived from movement analysis of Laban and Bartenieff. Students will progress into traditional codified dance syllabus of modern/contemporary, ballet, jazz, and tap in order to execute and perform dance sequences. Students will experience ideas for movement generation for dance composition development and learn how to analyze and articulate dance they observe and produce.

Evaluation and Grading: Grades are based on participation both physically and mentally (body/mind) and skill development as demonstrated through technical demonstration and performance evaluation. Skill evaluation will include teacher, peer, and self-response. Completed projects such as written critiques, choreographic compositions, and choreographer research project provide further insight to the art of dance as well as written tests for vocabulary, terminology and codified dance positions. Video will be a common practice tool for student growth and skill set feedback.

536 PHYS ED 3

Grade 12 / 1 Semester / .25 Credit

This Elective course is offered to Senior students who wish to participate in traditional physical activities and personal fitness/ lifetime activities.

Prerequisites: Completion of PE Core and PE 2. All interested students MUST meet with the PE/Health Department Chair prior to registration.

Goals and Objectives: The objective of the elective course is to provide reinforce specific skills, knowledge and activities learned in PE CORE and PE 2. An emphasis will be placed on the development and maintenance of personal physical fitness as a building block for improved performance. Opportunities exist to meet and participate, with classmates, in structured team and lifetime fitness activities.

Content and Methods: Content of the course will mirror the PE CORE and/or the PE 2 curriculum. Content may be modified to include weight training and other sport specific activities. Content is at the sole discretion of the PE instructor, Strength/Conditioning staff, and the Athletic Trainer.

Evaluation and Grading: Students in the course will receive a "pass" / "fail" grade. Students are required to attend all class sessions and may be required to complete additional activities as assigned by the PE/Health Department Chair.

HEALTH / PHYS ED COURSE DESCRIPTIONS

539

SPORTS MEDICINE

Grade 12 / 1 Semester / .25 Credit

This Elective course is offered to senior students who wish to participate in a non-traditional PE course which combines elements of personal fitness/ lifetime activities, an introduction to sports medicine professions, basic athletic training methodology and application, and basic human anatomy, kinesiology and physiology.

Prerequisites: Completion of PE CORE AND PE 2 or Advanced PE.

Goals and Objectives:

- Understand the role of the athletic trainer and the entire sports medicine team.
- Basic working knowledge of human anatomy.
- Basic understanding of injuries to include tendonitis, muscle strains, ligamentous sprains, contusions, fractures, spine injuries and the acute care of these injuries.
- Understand the principles of rehabilitation of athletic injuries.
- Recognize sports emergencies such as heat/cold disorders, diabetic conditions, skin disease, nutritional deviations and contagious pathogens.
- Enhancement of evaluation skills related to sports injury, treatment and prevention.
- Basic understanding of strength and conditioning principles.
- The student will learn fundamentals of Sports Medicine and Athletic Training and be exposed to a variety of medical professions.

- Students will receive CPR training and the opportunity to receive certification.

Content and Methods: This course introduces the student to the Sports Medicine industry, including but not limited to: Athletic Training, Physical Therapy, Occupational Therapy, Physician's Assistant, and Strength and Conditioning. 3-4 days a week will be spent in the classroom, 1-2 days a week spent in the Athletic Training room/lab/on the field.

Evaluation and Grading: Grades will be based on a variety of assessments. Students are required to attend all class sessions and may be required to complete additional activities outside of the traditional school day (most will be associated with Home sporting activities) as assigned by the Athletic Training Staff and/or PE/Health Department Staff and/or Strength Training Staff.

RELIGIOUS STUDIES COURSE DESCRIPTIONS

RELIGIOUS STUDIES

6102

HONORS SCRIPTURES

Grade 9 / 2 Semesters / 1 Credit

Goals and Objectives: The student will study and learn the story of God acting in the lives of the early Judaic and Christian communities through careful reading and interpretation of the Bible following the approach of the Catholic Church. Understanding of the Bible will be aided by modern scholarship to contribute to the student's knowledge of the historical background and literary background of biblical texts. The student will come to understand the Bible as God's self-revelation to us and be invited to integrate Scriptural values into his own life. He will study salvation history from *Genesis to Revelation* as a means of encountering the God of history and salvation. Special attention will be given the Gospels witness to Jesus Christ, the Word Made Flesh. The course also includes an introduction to the Jesuits through a close study of the life and ideals of its founder, Ignatius of Loyola.

Content and Methods: The student will read selections from the Bible aided by resources that present the tools for understanding the Sacred Writings. With an appreciation of salvation history and its God, the student will then be invited to integrate the Scriptures at this critical stage of his life. He will be exposed to the Ignatian tradition as an encouragement and challenge to live out the prophetic call to justice of both Testaments. The methodology used in this course is Bible reading and note-taking, lecture, small group

work, discussion, prayer, use of media, and field trips.

Evaluation and Grading: Grades will be determined by homework, quizzes, tests, journal/reflective papers, exam, participation.

6101, 6100

SCRIPTURES

Grade 9 / 2 Semesters / 1 Credit

Goals and Objectives: The student will study and learn the story of God acting in the lives of the early Judaic and Christian communities through careful reading and interpretation of the Bible following the approach of the Catholic Church. Understanding of the Bible will be aided by modern scholarship to contribute to the student's knowledge of the historical background and literary background of biblical texts. The student will come to understand the Bible as God's self-revelation to us and be invited to integrate Scriptural values into his own life. He will study salvation history from *Genesis to Revelation* as a means of encountering the God of history and salvation. Special attention will be given the Gospels witness to Jesus Christ, the Word Made Flesh. The course also includes an introduction to the Jesuits through a close study of the life and ideals of its founder, Ignatius of Loyola.

Content and Methods: The student will read selections from the Bible aided by resources that present the tools for understanding the Sacred Writings. With an appreciation of salvation history and its God, the student will then be invited to integrate the Scriptures at this critical stage of his life. He will be exposed to the Ignatian tradition as an

encouragement and challenge to live out the prophetic call to justice of both Testaments. The methodology used in this course is Bible reading and note-taking, lecture, small group work, discussion, prayer, use of media, and field trips.

Evaluation and Grading: Grades will be determined by homework, quizzes, tests, journal/reflective papers, exam, participation.

6201

FAITH AND CHURCH AND SACRAMENTS

Grade 10 / 2 Semesters / 1 Credit

Goals and Objectives: The student will reflect on his own life and the life of the Church to better understand God's presence and action. He will be asked to understand the process of growth in faith as intrinsic to his development toward manhood. At the heart of this study is a deepening understanding of the Paschal Mystery of Jesus Christ. The student will study and be invited to embrace the importance of Christian community (Church), the history of the Catholic Church, Sacraments as graced encounters with God, and his own active discipleship. The student will also have the opportunity to experience prayer in the context of the Ignatian *Spiritual Exercises* as adapted for high school students.

Content and Methods: This course will explore the meaning of faith and the nature of religion at the center of which lies an encounter with the living God. The student will be encouraged to own his faith, that is, embrace it of his own volition. The student will study the Church and the Sacraments through various readings

RELIGIOUS STUDIES COURSE DESCRIPTIONS

and activities. The methodology used in this course involves discussion, use of films and follow up analysis, small group work, journaling and reflective writing. The fourth quarter is given to the experiences of prayer, reflection and small group discussion.

Evaluation and Grading: The grade for this course will be based upon periodic tests, quizzes, homework, and journal writing. The student's involvement in class will also be considered.

630 MORALITY AND SOCIAL JUSTICE

Grade 11 / 2 Semesters /1 Credit

Goals and Objectives: This course will attempt to equip students with a systematic approach to solving moral problems and forming conscience. Students will learn to apply this moral analysis to various ethical issues, cases, and problems. They will also learn to recognize various stages of moral growth and development. Finally, they will be introduced to the Christian vision and Church teaching on morality and on specific moral issues.

Content and Methods: Issues examined include lying, stealing, cheating, business ethics, sexual morality, chemical abuse, respect life issues such as abortion, bio-ethics, capital punishment, poverty, hunger, discrimination (race, age, gender, sexual orientation), war, peace, and ecology. Methods employed include case studies, discussion, lecture, guest speakers, films, role playing, research and oral presentations.

Evaluation and Grading: Students are evaluated not on the specific conclusion of their moral decision but rather on the process and their demonstrated knowledge in making that decision. Methods of evaluation include tests, quizzes, reflection essays, research papers, oral presentations, and class participation.

631 MORALITY AND SOCIAL JUSTICE AND SERVICE

Grade 11 / 2 Semesters /1 Credit

Co-requisites: 831 American History

Goals and Objectives: Two sections of 831 American History and 631 Morality and Social Justice and Service will differ from other sections of these courses in two respects. The two instructors will each have the same students and will relate common moral and historical themes and issues in their teaching. On occasion, there will be common double-period classes and common assignments. Secondly, beginning in the first quarter, students in these sections will perform community service for two periods once a week at off-campus sites and this community service experience will be integrated into their study of history, morality, and justice. Because they will be meeting only four days a week instead of five, students in these sections should expect to receive more demanding homework assignments and will be expected to assume personal responsibility for more independent learning, integrated reflection, and dedicated service to others.

Content and Methods: Instructional methods include lectures, class

discussions, films, simulations, observations, and small group work.

Evaluation and Grading: Grades will be based on tests, quizzes, examinations, written assignments and community service participation.

635 MORALITY AND SOCIAL JUSTICE AND SERVICE

Grade 11 / 2 Semesters /1 Credit

Goals and Objectives: This course will attempt to equip students with a systematic approach to solving moral problems and forming conscience, while being involved in an on-site community service program. Students will learn to apply this moral analysis to various ethical issues, cases, and problems, including aspects of their service assignment. They will also learn to recognize various stages of moral growth and development. Finally, they will be introduced to the Christian vision and Church teaching on morality and on specific moral issues.

Content and Method: Issues examined include lying, stealing, cheating, business ethics, sexual morality, chemical abuse, respect life issues such as abortion, bio-ethics, capital punishment, poverty, hunger, discrimination (race, age, gender, sexual orientation), war, peace, and ecology. Methods employed include case studies, discussion, lecture, guest speakers, films, role playing, research and oral presentations and the context of their service placements.

Evaluation and Grading: Grades will be based on quizzes, position papers, projects, exams, and classroom performance.

RELIGIOUS STUDIES COURSE DESCRIPTIONS

641

RELATIONSHIPS

Grade 12 / 1 Semester / .50 Credit

Goal and Objectives: This course is designed to challenge the student to begin to live a life of Christian love and to form a working understanding of relationships. The student will formulate a personal stance on relationships based upon the knowledge of his personal faith commitment.

Content and Methods: Through the use of lecture, peer presentations, discussions, journals, speakers, prayer and group activities, the students will be challenged to examine their relationships with themselves, God, their families and friends. They will consider the implications that their responses will have on their future lifestyles.

Evaluation and Grading: The student will be evaluated on classroom participation, journal use, text reading, projects and reflective tests.

647

WORLD RELIGIONS

Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: This course is designed to familiarize students with the non-Christian religions of the world. One of the hallmarks of Jesuit education is "to be open to growth". This course will strive to ensure that the students become more knowledgeable about the nature of religion and the answers offered by the world's major traditions. It will also look at the influences of religion in political and cultural concerns and vice versa. Finally, it will enable the students to see the essential

similarities and differences between all religious traditions.

Content and Methods: The course will start with a comparative study of religion. Then we will examine the principles, practices and teachings of the major traditions including primal and native ones. The material will be presented through lecture, videos, guest speakers, and student led discussions and presentations.

Evaluation and Grading: Grades will be based on summary papers, seminar discussions, research work, quizzes, tests and classroom performance.

648

MEDITATION

Grades 11, 12 / 1 Semester / .50 Credit

Available to Juniors second semester only.

Goals and Objectives: This course seeks to balance an understanding of meditative practice with an exploration of personal daily experience. Each person experiences a longing that draws us forward in life, calling us to reach beyond ourselves and realize the depth contained in our daily living. We are capable of achieving a level of attentiveness that attunes our awareness to the desires of the heart; this awareness can provide an even-keeled experience in the midst of a chaotic world. We will explore practices drawn from Buddhism, the Desert Fathers and Mothers, Hinduism, and the Spiritual Exercises of Ignatius Loyola.

Content and Methods: The course will include group meditation and reflection, opportunities for exploring and discussing the various forms of

meditation, as well as small group reflection and discussion. We will pursue practices in the context and language of prayer and faith, but these practices parallel those used in sports, psychology, and physiology.

Evaluation and Grading: Grades will be based on reflection papers, class participation, and reading quizzes.

650

QUESTION OF GOD

Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: The goal of this class is to invite students to reflect upon, articulate, and discuss their essential questions about God, human beings, and the world. By the end of the course students are asked to articulate their current theological perspective.

Content and Methods: This is a seminar style class, in which class discussions are primarily based upon student questions. Commonly discussed topics include: images of God, experiences of suffering, faith development, perspective, the search for truth, religious traditions, the role of religion, eschatology, Christology, prayer, and the human condition. In order to deepen our investigation of these topics the class will utilize a number of different sources, including the following: readings from notable philosophers such as Plato and Descartes, the writings of influential theologians like Aquinas and Rahner, Scripture passages, and appropriate films and documentaries.

Evaluation and Grading: Grades will be based on essays, presentations, and tests.

RELIGIOUS STUDIES COURSE DESCRIPTIONS

651

IGNATIAN THEMES IN FILM

Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: Pursuing the Jesuit insight that God can be found in all things, this course will reflect upon the themes found in modern film to learn more about God, others and self. Students will navigate and critically analyze the ongoing dialogue between faith and culture as expressed through the medium of film. Using the particular lens of the Spiritual Exercises of St. Ignatius, students will discern the patterns of consolation, desolation and the themes of the 4 “weeks” in their own lives, their culture and in film.

Content and Methods: We shall view a plethora of films selected for their connection to the themes of the Spiritual Exercises of Ignatius and accessibility to students’ lives. Students will also be invited to connect the insights gained from these films to their own lives and relationships through written assignments, class discussions, and prayer experiences.

Evaluation and Grading: Types of Assignments include (but are not limited to): reflection questions and papers, quizzes, prayer experiences, quarterly exams, group reports and projects, film research, preparation, and analysis. The Final Assessment involves a paper and presentation on a movie of the student’s choice in place of a traditional final exam.

653

GOSPEL ACCORDING TO POP CULTURE

Grades 11, 12 / 1 Semester / .50 Credit

Available to Juniors second semester only.

Goals and Objectives: What do Peanuts, Dr. Seuss, Walt Disney, Lord of the Rings and the Simpsons have to do with the Gospel – the Good News of Jesus Christ? The person and presence of Jesus are not found only in “holy” things, but in things “profane” as well. In fact, in the Catholic Christian tradition there is no real divide between the sacred and the secular. Why? Because we can (and do) discover God in all things (a classic theme of Jesuit spirituality!). We will search for this understanding through a “critical engagement” with respect of our culture. We will attempt to discern where culture is expressive of Gospel values and where it is not. We will enhance our ability to evaluate and be critical of our culture by becoming more media literate. Finally, we will seriously ask ourselves just what changes our learning should demand on our own lives and our use of and involvement in our culture.

Content and Methods: The class will have a diversified format: a combination of lecture, class discussion, small group discussion, student presentations, guest speakers and films. The student will be called upon to for critical summaries of “texts” read, watched and observed. A high level of reflection and discussion is expected, along with careful class preparation.

Evaluation and Grading: Grades will be assigned according to a numerical combination of tests, quizzes, essays, presentations and class participation.

656

RESPONDING TO VIOLENCE

Grades 11, 12 / 1 Semester / .50 Credit

Available to Juniors second semester only.

Goals and Objectives: Responding to Violence intends to be a discussion driven course that takes an in-depth look at the nature and reality of violence and appropriate human responses. Throughout the semester, our study and discussion will consider individual and collective communal violence in contemporary events, history, and fiction. Our study and discussion on the topic will include the theological and philosophical foundations for the roots of violence in all its forms, and appropriate human responses. Our study and discussion on the topic will include contemporary personal, local, national, and global issues involving the potential for, and the reality of, violence. Our study and discussion on the topic will include a look at the Holocaust, the Civil Rights Movement, 9/11, and the War on Terror.

Content and Methods: The course will be a rich combination of experiential and interactive activities along with lecture, discussion, reflection, film, individual and group projects. A wide variety of resources will be used.

Evaluation and Grading: Grades will be drawn from assessments geared

RELIGIOUS STUDIES COURSE DESCRIPTIONS

towards student's ability to convey an understanding of our study and discussion on the topic.

671 BIOETHICS

Grades 11, 12 / 1 Semester / .50 Credit

Available to Juniors second semester only.

Prerequisites: Biology

Goals and Objectives: To examine complex moral and ethical issues that are influenced by developments in biotechnology and science.

Content and Method: Taught by science and religion instructors; topics selected by mutual agreement of students and instructors will be studied in the light of biological, moral and social principles. Prioritized topics include: euthanasia, recombinant DNA technology, imperiled newborns, evolution, medical care and many others.

Evaluation and Grading: Grading will be based on a combination of position essays, written tests and student presentations.

672 WALKING THE WAY: THE CAMINO DE SANTIAGO

Grade 12 / 1 Semester / .50 Credit

Prerequisites: (1) This class requires walking the final 118 kilometers of the Camino de Santiago in Spain during Easter break; students must be able to be physically fit enough for the pilgrimage. The PE and training staff may be asked to evaluate a student for physical fitness. (2) Cooperativeness in behavior and openness of

spirituality are equally important. Current and prior teachers of a student will be surveyed concerning student behavior and engagement. (3) The travel component of this class necessitates a fee of approximately \$2200.

Goals and Objectives: This course seeks to facilitate an intellectual exploration and a practical experience of pilgrimage on the Camino. Students will explore the development and expression of faith in the art, history, and culture of the Camino. Each student will have the opportunity to reflect upon his own personal and spiritual journey as well as research particular aspects of the Camino.

Content and Methods: Students will typically meet as a class twice each week. Utilizing a seminar style approach of instruction, the course will consist of three phases: preparation, pilgrimage, and reflection.

Preparation: Each student will choose from texts on the course's annotated bibliography (inclusive of faith, art, history, and culture) and present his findings to the class. Pilgrimage: students will walk, reflect, journal, pray, and share. Reflection: each student will write and discuss with the class a personal reflection paper, as well as prepare a final presentation to share the experience. Methodology is intended to focus upon student discovery, articulation, and ownership of his interior movements through life.

Evaluation and Grading: Each student must complete the actual pilgrimage over Easter break to

receive credit in this class. The student will be evaluated on class presentations, written work including a final reflection paper, a journal of the pilgrimage experience, participation in prayer and discussion, and a final presentation.

SCIENCE COURSE DESCRIPTIONS

SCIENCE

7102

HONORS BIOLOGY

Grade 9 / 2 Semesters / 1 Credit

The Honors Biology course will cover topics in more depth with greater concentration on the molecular aspects of biology as the students proceed through the course material described below. Placement into Honors Biology is optional and requires the approval of the Biology faculty.

Goals and Objectives: Students will begin to develop the skills of scientific inquiry and problem solving. They will develop general biological laboratory skills including application of the scientific method and the use of basic biological laboratory equipment. Students will also develop basic science skills to analyze text, data, and graphs. At the conclusion of the year the student should be able to explain life processes on a molecular, cellular, and systematic level as well as recognize the unity and diversity of living organisms.

Content and Methods: The course will cover a range of topics including scientific method, ecology, basic chemistry and biochemistry, structures and functions of cells, cellular reproduction, heredity, natural selection, and evolution. There are many laboratory activities, demonstrations, small group and class discussions, use of charts, models, videos, and laboratory specimens.

Evaluation and Grading: Grading is based on class preparation, homework, laboratory reports, unit

tests, projects, and quarter exams. Students should expect, on average, 30 minutes of homework per weekday night.

7101

BIOLOGY

Grade 9 / 2 Semesters / 1 Credit

Goals and Objectives: Students will begin to develop the skills of scientific inquiry and problem solving. They will develop general biological laboratory skills including application of the scientific method and the use of basic biological laboratory equipment. Students will also develop basic science skills to analyze text, data, and graphs. At the conclusion of the year the student should be able to explain life processes on a molecular, cellular, and systematic level as well as recognize the unity and diversity of living organisms.

Content and Methods: The course will cover a range of topics including scientific method, ecology, basic chemistry and biochemistry, structures and functions of cells, cellular reproduction, heredity, natural selection, and evolution. There are many laboratory activities, demonstrations, small group and class discussions, use of charts, models, videos, and laboratory specimens.

Evaluation and Grading: Grading is based on class preparation, homework, laboratory reports, unit tests, projects, and quarter exams. Students should expect, on average, 30 minutes of homework per weekday night.

7202

HONORS CHEMISTRY

Grade 10 / 2 Semesters / 1 Credit

Placement in Honors Chemistry is optional and will be evaluated and approved by the Chemistry faculty after reviewing the student's math grade, biology grade, and overall GPA. The goal is ensure that only students likely to succeed at the honors level are placed in the class. Students with grades below the normal standards will be considered upon recommendation of freshmen teachers.

Prerequisites: A student likely to succeed will have a math grade of 92+ in Algebra I, 90+ in Algebra I/Geometry, or 88+ in Algebra II, and as such these grades are normally required.

Goals and Objectives: To provide students with a study of matter and its physical, chemical, and energy changes and to enable students to conduct scientific investigations using various laboratory techniques. The study of chemistry is a vehicle to help the student develop higher order thinking and logical skills. Honors Chemistry demands greater math proficiency because less time is spent reviewing math related concepts than in the regular Chemistry course and the course will delve more deeply into abstract mathematical constructs that normal chemistry passes over. This allows for a wider and richer range of topics to be covered during the year.

Content and Methods: Topics to be studied include measurement, atomic & molecular structure, nuclear structure & reactions, electronic structure & quantum mechanics,

SCIENCE COURSE DESCRIPTIONS

chemical bonding, chemical reactions & reaction quantities, states of matter & gas laws, thermochemistry, acids and bases, equilibrium systems, kinetics, and redox reactions.

Chemistry course methods include scientific reading, small and large group discussions/work, problem solving, lecture, Socratic drill, and laboratory investigations. Typical homework assignments consist of about 30 minutes per night (based on five nights of homework per week even when the class meets fewer times.)

7201 or 7200*

CHEMISTRY

Grade 10 / 2 Semesters / 1 Credit

*(Students will be registered for Chemistry (7200) by the Assistant Principal for Academics in consultation with the student's counselor and the teachers of freshmen. This course will cover the same material as Chemistry (7201). However, the pace and depth of coverage will be adjusted to accommodate differences in mathematical skill development.)

Goals and Objectives: To provide students with a study of matter and its physical, chemical, and energy changes and to enable students to conduct scientific investigations using various laboratory techniques.

Content and Methods: Topics to be studied include measurement, atomic & molecular structure, nuclear structure & reactions, electronic structure, chemical bonding, chemical reactions & reaction quantities, states of matter & gas laws, thermochemistry, acid/base chemistry and equilibrium systems. Chemistry

course methods include scientific reading, small and large group discussions, problem solving, lecture, and laboratory investigations.

Students are expected to spend 30 minutes on homework for each regular class day and 60 minutes for each XY-day.

740

PHYSICS

Grades 12 / 2 Semesters / 1 Credit

Prerequisites: Trigonometry & Algebra II

Co-requisites: AB Calculus, Calculus, or Introduction to Calculus

Goals and Objectives: To introduce the interested student to the range of topics typically covered in a traditional first-year high school course. To familiarize students with principles of mechanics, thermodynamics, electricity and magnetism, waves and optics, and modern physics; to show the value of experimentation and mathematics in the development of laws and theories in physics; to teach the basic skills of problem-solving and scientific thinking in the area of physics; to present the historical development of physics. The conceptual and mathematical emphasis of this course will prepare students to be scientifically literate citizens able to pursue careers in the liberal arts and business.

Content and Methods: The areas above will be covered at a level that is appropriate for a high-school, college-preparatory physics course. Instruction will emphasize real-world applications of the material being learned. Laboratory reports, in-class

activities, quarter projects, lectures and discussions, problem-solving sessions, videos, internet web sites, and demonstrations will be used for instruction.

Evaluation and Grading: Grading is based on problem-solving assignments (homework & class work), laboratory work and reports, tests and quizzes, independent project work and quarter examinations. Students should expect, on average, 30 minutes of homework per weekday night.

747

AP PHYSICS I

Grades 11, 12 / 2 Semesters / 1 Credit

Prerequisites: Algebra II (or equivalent) with an average of 85% or better. If these requirements are not met, the student will need the permission of the AP Physics I instructor.

Co-requisites: Enrollment in Precalc BC or Precalc AB or AB Calculus or BC Calculus. If a student is not enrolled in one of these courses, he will need the permission of the AP Physics I instructor.

Goals and Objectives: To introduce the able and interested student to an in-depth study of a wide range of topics typically covered in the first semester of a year-long, algebra-based, college physics course. To familiarize students with principles of translation and rotational mechanics (including motion, forces, momentum, and energy), electricity, and waves; to show the value of experimentation and mathematics in the development of laws and theories in physics; to teach the skill of scientific thinking in

SCIENCE COURSE DESCRIPTIONS

the area of physics; to present the historical development of physics. The **strong** mathematical emphasis of this course prepares students for careers in engineering, science, computer programming, or medicine.

(Note: This course will be a prerequisite for those wishing to take AP Physics C starting in the 2019-2020 school year)

Content and Methods: The topics in this course, listed above, will be covered in greater depth than in a typical high-school physics course. The mathematics used will be based on skills covered in the student's Algebra courses and the student is expected to be comfortable in performing mathematical manipulations. An algebra-trigonometry based, first-year college textbook will be used in the course and students will be expected to produce work of high quality. Laboratory reports, lectures and discussions, in-class activities, quarter projects, problem-solving sessions, videos, internet web sites, and demonstrations will be used for instruction.

Evaluation and Grading: Grading is based on laboratory work and reports, tests and quizzes, independent project work, homework/problem-solving, and quarter examinations. Students should expect, on average, 30-40 minutes of homework per weekday night.

LAB ELECTIVES

770

AP BIOLOGY

Grades 11, 12 / 2 Semesters / 1 Credit

Prerequisites: Biology, Chemistry, Sophomore English, with scores no lower than 88% in Biology, 85% in Honors Biology, 88% in Honors Chemistry, 90% in Chemistry, 90% in English along with approval of the Chemistry teacher, approval of the AP Biology teachers.

Goals and Objectives: To study the material appropriate for a first year college biology course; to provide laboratory experiences that will broaden the understanding of basic biological concepts; to prepare students to take the Advanced Placement Biology exam.

Content and Method: The aim of the Advanced Placement Biology course is to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. Primary emphasis is on developing and understanding of concepts rather than on simply memorizing terms and technical details. These concepts are developed through eight major themes which include: science as process, evolution, energy transfer, continuity and change, relationship of structure to function, regulation, interdependence in nature, science, technology and society. Methods employed to relate concepts are primarily laboratory experiences and demonstrations, laboratory specimens, lectures,

discussions, charts, models, videos and written papers.

Evaluation and Grading: Evaluation will be based on laboratory work and reports; laboratory practical tests for dissections, student papers, tests, and quarter exams. Estimated homework time for the course ranges from 30 - 60 minutes per night. A summer assignment will need to be completed prior to the start of the school year. The College Board AP Biology Exam may be taken at the end of the course for possible college credit.

771

AP CHEMISTRY

Grades 11, 12 / 2 Semesters / 1 Credit

Prerequisites: 88% average or above in Honors Chemistry (7202), or 90% average or above average in Chemistry (7201) and approval of instructor.

Goals and Objectives: To study the material appropriate for a first year college chemistry course; to provide laboratory experiences that will broaden the understanding of basic chemical concepts; to prepare students to take the Advanced Placement Chemistry exam.

Content and Method: The content of AP Chemistry is the normal subject matter for a first-year college chemistry course for science majors. The topics studied in the first-year Chemistry course are expanded and developed in depth. Additional topics such as kinetics, equilibrium chemistry, acid-base chemistry, and electrochemistry are included. The laboratories involve more developed skills and precision as well as a deeper

SCIENCE COURSE DESCRIPTIONS

understanding of the chemical principles involved. , The equipment used include analytical balances, spectrophotometers, and pH meters. The instructional methods include whole-class discussions, laboratories, problem-solving sessions, online-videos, and demonstrations.

Evaluation and Grading: Evaluation is based on homework assignments, laboratory reports, online written reflections, quizzes, as well as midterm and final quarter exams. Students should expect, on average, 45 minutes per weeknight of homework. A summer assignment will need to be completed prior to the start of the school year.

772

AP PHYSICS C

Grade 12 / 2 Semesters / 1 Credit

AP Physics C is intended for exceptionally able mathematics and science students who are dedicated to **one hour of AP Physics C work per night**. This course is for the highly motivated student who desires an in depth study of physics in preparation for taking physics at the university level.

Prerequisites: Students must have a semester average of 88% or above in BC Calculus (if taken as a Junior) or Precalculus; other students need approval of counselor and AP Physics C instructor.

Co-requisites: BC Calculus or AB Calculus.

Goals and Objectives: To introduce the most highly motivated student to the calculus-based study of mechanics and electromagnetism in preparation

for the AP Physics C: Mechanics Exam and AP Physics C: Electricity and Magnetism Exam and to the study of physics at the introductory, university level.

Content and Methods: This course introduces the student to an in-depth, calculus-based study of the areas of mechanics and electromagnetism. The class will present material at a collegiate level and pace. The student is expected to produce work of this level as well. Classroom activities include lecture, laboratory, class discussion, written assignments, tests, and examinations.

Evaluation and Grading: The grade for St. Xavier will be based on the quality of classroom participation, laboratory work and reports, tests, and quarter examinations; Advanced Placement grade will be determined by the AP Physics C Examinations. A summer assignment will be assigned prior to the beginning of the school-year.

NON-LAB ELECTIVES

7411 or 752

MARINE SCIENCE

Grades 10, 11 / Summer 2020 / .50 Credit

Students can register for this course in the 2019-2020 school year. This course takes place on the Big Island of Hawaii and Maui (Summer 2020). Students stay at the Hawaii Preparatory Academy on the Big Island during the summer of even numbered years. The estimated cost for the 17-day course (includes accommodations on two islands, materials, field trips & excursions, tuition, & all airfare) is \$5,500.

Acceptance into this course is based on approval from current science teacher(s), counselors, and assistant principals. Students who have already graduated may not enroll in this course. Please contact Mrs. Heather Nardini with any questions. hnardini@stxavier.org

Goals and Objectives: To provide students with an interdisciplinary science elective that focuses on the ocean ecosystem and its inhabitants. Additional course content will include exposure to Hawaiian culture and customs through field trips and guest speakers.

Content and Methods: The course uses lecture, field trips, projects, and inquiry laboratories to explore the marine world. The course includes the study of physical oceanography and a detailed survey of the characteristics and ecology of the major taxonomic groups of marine organisms. Specific topics covered will be: dangerous marine organisms, waves/beaches, invertebrate phyla, chemical/physical oceanography, tide pool ecology, coral reef ecology, tides/tsunamis, geology of the Hawaiian Islands, marine birds/mammals, maricultures, estuarine/coastal marsh communities, and fish classifications/anatomy & physiology.

Evaluation and Grading: Throughout the course, students will be required to keep a portfolio of lecture notes, laboratory observations, and laboratory reports. Laboratory and classroom participation is mandatory. Detailed laboratory reports will be submitted as graded assignments. A final exam will be administered at the completion of the course. Students who successfully

SCIENCE COURSE DESCRIPTIONS

complete of all requirements earn .50 credit hour for their 80+ hours of course work, field work and lab work.

7401 or 745

ANATOMY

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Chemistry (may be a co-requisite).

Goals and Objectives: To supplement and enrich knowledge gained during first year biology; to develop laboratory skills in the use of selected laboratory equipment and animal dissection; to acquaint students with cellular and gross human anatomy; to aid students who intend to pursue a biology or health-centered college program.

Content and Methods: A study of the structure of the human body; specific areas to be explored include the cellular and gross structure of the muscular, skeletal, nervous, endocrine, digestive, and circulatory systems. Extensive laboratory experiences will include the complete dissection of the cat and human tissue study.

Evaluation and Grading: Grading will be based on written, oral and practical tests and quarter exams. Students should expect 20-30 minutes of homework per night (on average).

744

PHYSIOLOGY

Grades 11, 12 / 1 Semester / .50 Credit

Prerequisites: Chemistry; permission from instructor.

Goals and Objectives: To supplement and enrich knowledge

gained during first year biology; to develop a conceptual and factual understanding of the interrelationship of the systems of the human body; to study selected diseases associated with human systems; to aid students who intend to pursue a biology or health centered college program.

Content and Methods: A study of the normal homeostatic function of selected body systems will be examined. Interactive lectures and class discussions will be used. Selected laboratory experiments/demonstrations will be used to demonstrate the normal function of body systems, and case studies will be used to examine the pathophysiology of those systems.

Evaluation and Grading: Grading will be based on completion of homework assignments, reading quizzes, objective and subjective tests and quarter exams. In addition, students will work individually and in to solve case studies of various pathological conditions. Students should expect, on average, 30 minutes of homework per weeknight.

746

HEALTH CAREER SEMINAR

Grades 11, 12 / 1st Semester / .25 Credit

This non-lab course will be taught during first semester of even numbered years (Fall 2018) every Tuesday evening 6:00 – 8:00. A student will receive .25 credit, but may not use this course to fulfill a science requirement.

Prerequisites: Chemistry and Biology.

Goals and Objectives: To provide students with an opportunity to gain insight into the careers related to health care and medicine. Students will learn about the academic requirements that are necessary for pursuing a career related to biomedical research, hospital administration, medicine and therapy. In addition, students will have the opportunity to learn about medical specialties and sub-specialties, managing work-life balance, and the challenges associated with our current healthcare system and insurance.

Content and Methods: Practicing health career professionals, including researchers and physicians will present both anecdotal and evidence-based data relating to their specialty area(s) and academic preparation with an emphasis on clinical practices and representative cases. Students will listen to the speakers, ask questions and summarize the main ideas.

Evaluation and Grading: Evaluation will include summary papers for periodical articles we discuss, journals/notes from guest speakers, two quarter essays/papers, and a project describing a career shadowing or interview experience.

773

AP PSYCHOLOGY

Grades 11, 12 / 1 Semester / .50 Credit

Prerequisites: 88% or higher in Biology and Chemistry or with permission of instructor.

Goals and Objectives: To introduce students to the study of human behavior and consciousness; to understand the human nervous and

SCIENCE COURSE DESCRIPTIONS

endocrine systems; to compare and contrast major psychological theories; to use scientific principles and methods to investigate memory, motivation, personality, development, and mental illness ; to prepare students for the Advanced Placement Psychology Examination.

Content and Method: The curriculum of AP Psychology coincides with the topics covered in an introductory college course in general psychology. Areas of study will include the history of psychology, basic psychological processes such as sensation, perception, motivation, learning, memory, psychological disorders and therapies, psychological measurements, personality, and child/adolescent/adult development. The students will evaluate psychological theories based on scientific principles, and perform a basic review of peer-reviewed literature. Classroom methods include lecture, class discussion, written assignments, projects, tests and examinations. Students will be expected to do significant outside reading. There will be, approximately, 40 minutes of homework required per night.

Evaluation and Grading: The grade will be based on the quality of inquiry, classroom discussions, written assignments, presentations, summaries of peer-reviewed research, quizzes/tests and quarter examinations. Advanced Placement score will be determined by the student's performance on the AP Examination.

741 BIOETHICS

Grades 11, 12 / 1 Semester / .50 Credit

Available to Juniors second semester only.

Prerequisites: Biology

Goals and Objectives: To examine complex moral and ethical issues that are influenced by developments in biotechnology and science.

Content and Method: Taught by science and religion instructors; topics selected by mutual agreement of students and instructors will be studied in the light of biological, moral and social principles. Prioritized topics include: euthanasia, recombinant DNA technology, imperiled newborns, evolution, medical care and many others. Students will receive a half credit in Science or a half credit in Religion upon successful completion of this course.

Evaluation and Grading: Grading will be based on a combination of position essays, written tests and student presentations. Students should expect, on average, 20-30 minutes of homework per weeknight.

777 AP PSYCHOLOGY- NEUROSCIENCE

Grades 11, 12 / 2 Semesters / 1 Credit

***This course is NOT available to students who have taken or are taking AP Psychology.**

Prerequisites: 88% or higher in Biology and Chemistry or with permission of instructor.

Goals and Objectives: To introduce the student to the study of human behavior with a focus on the "biological basis" of behavior. This two semester course will investigate the underlying physiology for human thinking, language, consciousness, learning and memory, personality, and psychological disorders (mental illness). Students will study the endocrine and nervous systems in depth, as they relate to the control and regulation of human behavior. Students will also learn the major research studies and psychological theories that have led to the growing field of Neuroscience. Students will learn to think critically by using scientific processes and methods to investigate data/information and to evaluate theories. Students who are successful in the course are prepared to take the AP Examination in Psychology given in the spring.

Content and Methods: The curriculum of AP Psychology-Neuroscience mimics a college-level introductory Biological Psychology course. Topics include: history of physiological psychology, effects of psycho-active drugs, nervous system, senses and perception, sleep and dream theory, stress and emotion, learning, memory, intelligence, communication, development, neurological disorders, mental and behavioral disorders, therapies, and social psychology. Students will be expected to do significant reading and there will be, approximately, 40 minutes of homework required per night.

Evaluation and Grading: Grade will be based on the quality of investigation, classroom discussions, assignments, projects, research,

SCIENCE COURSE DESCRIPTIONS

quizzes/tests, a research paper and quarter examinations. Advanced Placement score will be determined by the student's performance on the AP Examination.

705 ENGINEERING FOUNDATIONS

Grades 11, 12 / 2 Semesters / 1 Credit

Prerequisites: Algebra I (80% or above) and Algebra II (80% or above)

Prerequisite/Corequisite: Physics, AP Physics 1, or AP Physics C, and Geometry and Trigonometry or Precalculus

Goals and Objectives: To introduce the field of Engineering through a "hands on" approach to engineering processes. To describe the field of engineering by teaching theoretical principles of engineering while introducing students to the design process. Students will utilize math, science, and technology to solve engineering problems. This course is primarily group-project based and requires participation by all students. Through investigation, experiments, and software tools, students will be exposed to math and science concepts that are common to the various fields of engineering. It also emphasizes teamwork and oral and written communication skills while using technology. Students will develop their engineering abilities by implementing the engineering design process to define and solve problems.

Content and Methods: Materials: Classroom discussion and notes, and group work.

Evaluation and Grading: Teacher assessment of team projects, writing assignments, self and peer evaluations, and quizzes. Average weekday homework load is 30 minutes per night.

738 ENVIRONMENTAL SCIENCE

Grades 11, 12/ 1 semester/ 0.5 credit

Prerequisites: Biology and Chemistry

Goals and Objectives: To provide an interdisciplinary approach to environmental issues. To understand the functioning of the Earth's environment including both the living (ecological) and non-living (geology and meteorological cycles of the earth) environments of the world. To identify and analyze both human-made and natural environmental problems and to evaluate the risks associated with these problems.

Content and Methods: This course will cover topics including biomes, ecosystems, food chains, the interactions between and among organisms and their environment, evolution/speciation, natural resource management, conservation, population growth, climate change, ozone depletion, deforestation, biodiversity loss, and a study of the history of resource use and conservation along with major environmental laws and policies. This course includes laboratory activities, demonstrations, lectures and discussions, use of charts, models, videos, and fieldwork.

Evaluation and Grading: Grading is based on class participation, laboratory reports, chapter tests, laboratory and field experiences, and

quarter exams. Students can expect to have 20-30 minutes of homework per night.

SOCIAL STUDIES COURSE DESCRIPTIONS

SOCIAL STUDIES

8102

AP WORLD HISTORY

Grade 9 / 2 Semesters / 1 Credit

Prerequisites: Qualified freshmen will be invited to participate in this AP offering. AP World History will be part of the St. Francis Xavier House curriculum.

Goals and Objectives: This full-year course explores the expansive history of the human world. Students will learn many facts, but also the critical thinking skills necessary to analyze historical evidence. Five themes will be used as a frame of reference in the chronological study of our world's history; these themes are: Interaction between humans and the environment; development and interaction of cultures; state-building, expansion and conflict; creation, expansion, and interaction of economic systems; and development and transformation of social structures.

Content and Methods: *Materials:* AP World History textbook and supplementary texts. *Methods:* include lectures, group and class discussions, videos, slides, and out of class projects.

Homework Expectations:

Students can expect on average to have 30 minutes of homework a night.

Evaluation and Grading: Grades will be based on tests, quizzes, examinations, and written assignments.

8101 or 8100

MODERN WORLD HISTORY

Grade 9 / 2 Semesters / 1 Credit

Goals and Objectives: This course is designed to develop an understanding of the historical roots of current world issues, especially as they pertain to international relations. Students will gain an understanding of current world issues and relate them to their historical, geographic, political, economic, and cultural contexts. Students will examine and consider multiple primary sources and accounts in order to understand international relations from a variety of perspectives.

Content and Methods: *Materials:* *Perspectives on the Past*, et.al. and supplementary texts. *Methods:* include lectures, class discussions, films, videotapes, slides, and out-of-class projects.

Evaluation and Grading: Grades are based on tests, quizzes, projects, and quarterly written assignments. Quarter examinations are valued at between one-fourth and one-third of a student's quarter grade.

8201

ECONOMICS AND FINANCIAL LITERACY

Grade 10 / 1 Semester / .50 Credit / Staff

Goals and Objectives: Students should gain a basic understanding of the U.S. economy and the kinds of economic issues that appear in the news. The focus of the course will be on the national economic issues rather than on business decisions or consumer skills. Topics include cost-benefit decision making, economic

systems, markets and the laws of supply and demand, business organization and growth, personal finance, problems linked to the business cycle, government fiscal and monetary policy, globalization, international trade, and the economic development of emerging countries.

Content and Methods: A selected textbook and faculty prepared handouts. Instructional methods will include lectures, class discussions, group work, films, videotapes, simulations, and guest speakers.

Evaluation and Grading: Grades are based on quizzes, tests, examinations, and the research assignments.

8202

AP MACROECONOMICS

Grade 10 / 1 Semester / .50 Credit

Prerequisites: A solid command of algebraic concepts, A 90% cumulative average or higher OR permission from the head of the Social Studies department.

Goals and Objectives: AP Macroeconomics is an introductory college-level course that focuses on the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination. This course provides students with a thorough understanding of the principles of economics and how economists use those principles to examine aggregate economic behavior. Students will learn how the measures of economic performance, such as gross domestic product (GDP), inflation, and unemployment are constructed and how to apply them to evaluate the macroeconomic conditions of an

SOCIAL STUDIES COURSE DESCRIPTIONS

economy. The course recognizes the global nature of economics and provides ample opportunities to examine the impact of international trade and finance on national economies. Various economic schools of thought are introduced as students consider solutions to economic problems.

Content and Methods: *Materials:* include a AP Macroeconomics textbook, handouts, online readings and review material on Canvas. *Methods:* include PowerPoint presentations, annotations of assigned readings, classroom dialog and simulations, and problem-solving applications.

Homework Expectations: Students can expect on average to have 30 minutes of homework a night.

Evaluation and Grading: A student's grade is based upon tests (essay and objective questions) quizzes, written responses to assigned readings and free response questions based upon key economic principles.

830 or 832

AMERICAN HISTORY

Grade 11 / 2 Semesters / 1 Credit

Goals and Objectives: This course will examine the social, political, and economic subsystems of the United States. Prime consideration in this course will be given to a study of the elements of change in the United States and the development of the American character. This course will also place an emphasis on research skills and formal writing skills.

Content and Method: Instructional methods include lectures, class

discussion, videos, simulations, small group work, primary sources usage, research and writing skill development.

Evaluation and Grading: Grades are based on tests, quizzes, examinations, book reviews, various written assignments and an acceptable research assignment.

831

AMERICAN HISTORY

Grade 11 / 2 Semesters / 1 Credit

Co-requisites: 631 Morality and Social Justice and Service.

Goals and Objectives: Two sections of 831 American History and 631 Morality and Social Justice and Service will differ from other sections of these courses in two respects. The two instructors will each have the same students and will relate common moral and historical themes and issues in their teaching. On occasion, there will be common double-period classes and common assignments. Secondly, beginning in the first quarter, students in these sections will perform community service for two periods once a week at off-campus sites and this community service experience will be integrated into their study of history, morality, and justice. Because they will be meeting only four days a week instead of five, students in these sections should expect to receive more demanding homework assignments and will be expected to assume personal responsibility for more independent learning, integrated reflection, and dedicated service to others.

Content and Methods: Instructional methods include lectures, class

discussions, films, simulations, observations, and small group work.

Evaluation and Grading: Grades will be based on tests, quizzes, examinations, written assignments and community service participation.

870

AP US HISTORY

Grade 11 / 2 Semesters / 1 Credit

Prerequisites: A 90% or above cumulative average and an 88% or above in first semester sophomore Honors English. A 90% or above in first semester Regular sophomore English. OR permission from the head of the Social Studies department.

Goals and Objectives: To prepare students for successful completion of the Advanced Placement examination given each May. To provide students with the skills and knowledge necessary to deal critically with problems and materials in U.S. history. To prepare students for advanced college courses by making demands equivalent to a full year introductory college course. To provide students with skills necessary to arrive at conclusions on a basis of informed judgment, and to present ideas clearly and persuasively in essay format. To provide students with a rigorous intellectual exercise leading to increased understanding of historical phenomena in the U.S. To learn to assess historical materials.

Content and Method: *Materials:* Fraser, *By the People*, and various outside assigned reviews/reflections. *Methods:* include lectures, research papers, videos, student summaries, and oral presentations.

SOCIAL STUDIES COURSE DESCRIPTIONS

Homework and Summer Reading

Expectations and Requirements:

Students can expect on average to have 45 minutes of homework a night. A summer reading assignment will also be required.

Evaluation and Grading: Evaluation and grades are based primarily on tests, numerous scholarly readings, and various written assignments including papers. Selected objective questions are included on all examinations. All examinations are designed to prepare the students for the AP examination.

841

AMERICAN POLITICAL SYSTEM

Grade 12 / 1 Semester / .50 Credit

Goals and Objectives: Through a critical examination of the principles, institutions, and processes of American government, students will understand how public policy is shaped. The course will consider the Constitution, federalism, political culture and ideology, public opinion, the media, parties, elections, interest groups, Congress, the presidency, the bureaucracy, the courts, civil rights and liberties, and key public policy issues with a special emphasis on current political events and trends.

Content and Methods: A selected textbook and faculty prepared handouts. Instructional methods will include lectures, class discussions, group work, films, videotapes, simulations, and guest speakers.

Evaluation and Grading: Grades are based on quizzes, tests, examinations, and the research assignments.

871

AP US GOVERNMENT

Grade 12 / 1 Semester / .50 Credit

Prerequisites: 90% cumulative average and 90% first semester grade in American History or AP U.S. History
OR permission from the Social Studies department head.

Goals and Objectives: Through a critical examination of the principles, institutions, and processes of American government, students will understand how public policy is shaped. The course will consider the Constitution, federalism, political culture and ideology, public opinion, the media, parties, elections, interest groups, Congress, the presidency, the bureaucracy, the courts, civil rights and liberties, and key public policy issues with a special emphasis on current political events and trends. This introductory college-level course is designed to prepare students to take the Advanced Placement Test in U.S. Government and Politics in May.

Content and Methods: *Materials:* a textbook, handouts, online readings, and review material on Canvas.
Methods: include daily PowerPoint presentations along with classroom dialog, simulations, role-plays, short videos, small group work, and student presentations.

Evaluation and Grading: A student's grade is based on tests (essays and objective questions), quizzes, written responses to assigned readings, quarter papers, and the quarter exams. The quarter projects will entail the writing of essays examining a student's political ideology and their

reflections on a judicial branch experience.

ELECTIVES

821

AP MACROECONOMICS

Grades 11, 12 / 1 Semester / .50 Credit

Prerequisites: A solid command of algebraic concepts, A 90% cumulative average or higher OR permission from the head of the Social Studies department.

Goals and Objectives: AP Macroeconomics is an introductory college-level course that focuses on the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination. This course provides students with a thorough understanding of the principles of economics and how economists use those principles to examine aggregate economic behavior. Students will learn how the measures of economic performance, such as gross domestic product (GDP), inflation, and unemployment are constructed and how to apply them to evaluate the macroeconomic conditions of an economy. The course recognizes the global nature of economics and provides ample opportunities to examine the impact of international trade and finance on national economies. Various economic schools of thought are introduced as students consider solutions to economic problems.

Content and Methods: *Materials:* include a AP Macroeconomics textbook, handouts, online readings

SOCIAL STUDIES COURSE DESCRIPTIONS

and review material on Canvas.

Methods: include PowerPoint presentations, annotations of assigned readings, classroom dialog and simulations, and problem-solving applications.

Homework Expectations:

Students can expect on average to have 30 minutes of homework a night.

Evaluation and Grading: A student's grade is based upon tests (essay and objective questions) quizzes, written responses to assigned readings and free response questions based upon key economic principles.

845

LAW AND JUSTICE

Grades 11, 12 / 1 Semester / .50 Credit

Goals and Objectives: This course will focus on various legal issues relevant to students' lives. Topics to be covered include: criminal law and the juvenile justice system, law and terrorism, torts, consumer and housing law, and family law. This course will build on, but not duplicate material learned by students in Introduction to Government.

Content and Method: *Street Law: A Course in Practical Law.* Case studies and current events will be used to address topics. Other instructional methods will include lectures, class discussions, and videos.

Evaluation and Grading: Grades will be based on tests, quizzes, examinations, and written assignments.

846

AMERICA IN THE 1960's

Grades 11, 12 / 1 Semester / .50 Credit

Goals and Objectives: This course analyses the political, social, and cultural history of 1960s America. In exploring this turbulent decade, the course examines many topics including: the presidencies of John Kennedy, Lyndon Johnson, and Richard Nixon; social movements of the decade, including the civil rights and black power movements, the new left, environmentalism, and feminism; the counterculture; rock 'n' roll; and the Vietnam war.

Content and Method: We will investigate these and other issues in a mix of printed, visual, audio, and multimedia sources such as speeches, newspapers and magazines, photographs, television, movies, and music.

Evaluation and Grading: Grades will be based on tests, quizzes, examinations, and written assignments.

847

THE AMERICAN CIVIL WAR

Grades 11, 12 / 1 Semester / .50 Credit

Goals and Objectives: Provide the student with economic, social, political and military history tools in order to better assess, appreciate and interact with the American Civil War as a relevant human cataclysm deserving lifelong study. This course will help the student to survey the major topics of one of the most influential experiences on American Culture and to understand the major military themes, strategies, campaigns, leaders, tactical

experiences, technologies, blunders, successes, and sacrifices of this destructive four-year war.

Content and Methods: Various Civil War related supplementary texts. Other instructional methods will include lectures, class and group discussions, videos, slides, and out of class projects.

Evaluation and Grading: Grades will be based on tests, quizzes, examinations, and various written assignments.

855

HISTORY OF AMERICAN CAPITALISM

Grades 11, 12 / 1 Semester / .50 Credit

Goals and Objectives: This course analyzes the development of modern management, entrepreneurship, and leadership through a study of the history of American capitalism. The goal is to understand these concepts/techniques and how they are applied in modern business. A study of the emergence of the modern American corporation beginning with Josiah Wedgewood is followed by the railroads in the late nineteenth century and the Industrial Revolution. We then move on to the emergence of large corporations such as Procter & Gamble, Ford Motor Company, and General Motors. The course will also include an examination of the evolution of modern enterprises during the 20th century like General Electric. A study of various theorists in the fields of management, entrepreneurship, and leadership will also be included.

Content and Method: The course will utilize a series of readings to examine

SOCIAL STUDIES COURSE DESCRIPTIONS

the history and development of the American economic system born of capitalism with a focus on entrepreneurship and leadership. Students will need to complete the assigned readings and be prepared to participate productively in all discussions.

Evaluation and Grading: Grades will be based on tests, quizzes, examinations, and various reading and written assignments.

874

AP EUROPEAN HISTORY

Grade 12 / 2 Semesters / 1 Credit

Prerequisites: 90% cumulative average and a 90% first semester grade in American History or AP U.S. History

OR permission from the Social Studies department head.

Goals and Objectives: An understanding of some of the principal themes in modern European history (political, diplomatic, intellectual, cultural, social and economic), an awareness of the consequences of European contacts with other areas of the world, and an ability to analyze historical evidence. Students will be prepared to compete in the Advanced Placement examination in May.

Content and Methods: *Materials:* *Western Civilization Since 1300*, Spielvogel and various primary source handouts. *Methods:* include lectures, videos, small group discussion and book critiques.

Homework and Summer Reading Expectations and Requirements:

Students can expect on average to have 45 minutes of homework a night. A summer reading assignment will also be required.

Evaluation and Grading: A student's grade is based on tests (essays and objective questions), quizzes, written responses to assigned readings, quarter papers, and the quarter exams. The quarter projects will entail the writing of essays examining a student's political ideology and their reflections on a judicial branch experience.

FINE ARTS COURSE DESCRIPTIONS

FINE ARTS

9000

CREATIVE THINKING

Grade 9 / 1 Semester / .50 Credit

Goals and Objectives: Learn how to have more good ideas by understanding the role creativity plays in your everyday life and how to access it on demand. Students will use creative engagement to solve problems, make themselves happier and increase their emotional intelligence alongside studying what, exactly, happens in our brains when we have an idea and how we can control that process. This class will prepare students to excel at the rest of their schooling and better prepare them to take on leadership roles.

Content and Methods: Both a lecture and lab class students will not only study methods to increase creative thinking but will practice what they are studying via short projects.

Evaluation and Grading: A mix of formal and informal evaluation. Student projects will be graded not on content but on the quality of idea presented, amount of preparation put into it and the development of the finished product. Projects will also be critiqued by the rest of the class as a method of building and refining critical thinking skills.

MUSICAL ARTS

9001 or 972

MUSIC 1

Grades 9, 10, 11, 12 / 1 Semester / .50 Credit

NOTE: *Music 1 can only be taken as a student's FIRST music course at St. X. Once a student takes another class in the music discipline, he is no longer eligible to enroll in Music 1.*

Goals and Objectives: A general music course intended for students with little to no experience reading music and playing instruments. The course provides an overview and introduction of the elements of music and musical performance.

Content and Methods: The course will introduce students to musical concepts including melody, harmony, rhythm, pitch, tempo, dynamics, and musical instruments. Material will be presented through verbal presentations, audio and visual examples, and practical application on the piano, ukulele, and percussion instruments.

Evaluation and Grading: Students will be graded through written exams, instrumental performance assignments, concert observations, and in-class participation.

9002 or 973

MUSIC 2

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisite: Completion of Music 1 or Instructor Approval in specific cases.

Goals and Objectives: This general music course is a survey of music in

which students will study various styles of music with a historical perspective.

Content and Method: In this class students will explore the eras of music, families of instruments, and the life and music of famous composers, including Bach, Mozart, and Beethoven. Students will listen to recordings of famous pieces and concerts, and will participate in class discussions.

Evaluation and Grading: Students will be evaluated and graded through exams, essays, projects, concert observations, and class participation.

974

AP MUSIC THEORY

Grades 11, 12 / 2 Semesters / 1 Credit

Prerequisites: Instructor Approval

Goals and Objectives: The goal of the course is to enable students to understand the architecture of music through analysis and listening. An additional goal of the course is to provide the student with the appropriate skills to score high enough on the AP Music Theory Exam to gain college credit upon entering the university setting.

Content and Methods: Coverage throughout the year includes but is not limited to Scales, Keys, Intervals, Form and Analysis. Students will also exercise and enhance their aural skills and will eventually be able to dictate and identify intervals and chords by listening to music played.

Evaluation and Grading: Grades and evaluations are based upon

FINE ARTS COURSE DESCRIPTIONS

Homework, Quizzes, Exams and Dictation.

9011 or 914

BAND 1

Grades 9, 10, 11, 12 / 1 Semester / .50 Credit

Meets concurrently with Band 2 & Wind Ensemble.

Goals and Objectives: To begin or continue to develop individual instrumental performance skills and techniques through the successful study, preparation, and performance of a varied repertoire of concert band music.

Content and Methods: This course will provide a large ensemble setting for students who wish to begin or continue to develop their own instrumental skill on a woodwind, or brass instrument or as a percussionist. Development of basic musicianship and playing skills will be emphasized throughout the semester as we rehearse and prepare band repertoire for performance. A spring concert and performance for graduation are required events for this course.

Evaluation and Grading: Students will be evaluated and graded on rehearsal participation, scale tests, band repertoire performance quizzes, solo performances for the class, and concert performances.

9012 or 916

BAND 2

Grades 10, 11, 12 / 1 Semester / .50 Credit

Meets concurrently with Band 1 & Wind Ensemble.

Prerequisite: Completion of Band 1 or instructor approval in specific cases.

Goals and Objectives: To further develop individual instrumental performance skills and techniques through the successful study, preparation, and performance of a varied repertoire of concert band music.

Content and Method: Students will continue to develop their individual instrumental technique and performance skills and further develop musicianship through rehearsal and preparation of band repertoire for performance. Students will also study individual solo pieces for performance within the class. A spring concert and performance for graduation are required events for this course.

Evaluation and Grading: Students will be evaluated and graded on rehearsal participation, scale tests, band repertoire performance quizzes, solo performances for the class, and concert performances.

909

PERCUSSION ENSEMBLE

Grades 11, 12 / 1 Semester / .50 Credit

Prerequisites: Completion of Band 1 or instructor approval in specific cases.

Goals and Objectives: To further develop individual instrumental performance skills and techniques through the successful study, preparation, and performance of a varied repertoire of concert band music.

Content and Method: Students will continue to develop their individual instrumental technique and performance skills and further develop musicianship through rehearsal and preparation of band repertoire for performance. Students will also study individual solo pieces for performance within the class. A spring concert and performance for graduation are required events for this course.

Evaluation and Grading: Students will be evaluated and graded on rehearsal participation, scale tests, band repertoire performance quizzes, solo performances for the class, and concert performances.

907

WIND ENSEMBLE

Grades 11, 12 / 1 Semester / .50 Credit

Meets concurrently with Band 1 & 2.

Prerequisites: Completion of Band 1 & 2, or instructor approval in specific cases.

Goals and Objectives: To further develop individual instrumental performance skills and techniques through the successful study, preparation, and performance of a varied repertoire of concert band music.

Content and Method: Students will continue to develop their individual instrumental technique and performance skills and further develop musicianship through rehearsal and preparation of band repertoire for performance. Students will also study individual solo pieces for performance within the class. A spring concert and performance for

FINE ARTS COURSE DESCRIPTIONS

graduation are required events for this course.

Evaluation and Grading: Students will be evaluated and graded on rehearsal participation, scale tests, band repertoire performance quizzes, solo performances for the class, and concert performances.

9015 or 917

CHOIR 1

Grades 9, 10, 11, 12 / 1 Semester / .50 Credit

Meets concurrently with Choir 2 & 3.

Goals and Objectives: To successfully prepare choral repertoire from a variety of musical styles and periods by learning the basic skills of musical performance and vocal health in a rehearsal setting.

Content and Methods: The course will focus on learning and preparing musical repertoire for concert performances throughout the semester. While no prior experience is necessary, students will be expected to increase their musical reading and performance skills through exercises provided by the instructor, and through consistent progress in rehearsals.

Evaluation and Grading: Students will be evaluated via written quizzes, sight-reading exercises, memorization checks, musical content checks, in-class participation, and concert performances.

9016 or 931

CHOIR 2

Grades 10, 11, 12 / 1 Semester / .50 Credit

Meets concurrently with Choir 1 & 3.

Prerequisites: Completion of Choir 1.

Goals and Objectives: To successfully prepare choral repertoire from a variety of musical styles and periods by learning the skills of musical performance and vocal health in a rehearsal setting.

Content and Methods: The course will focus on learning and preparing musical repertoire for concert performances throughout the semester. Students will be expected to increase their musical reading and performance skills through exercises provided by the instructor, and through consistent progress in rehearsals.

Evaluation and Grading: Students will be evaluated via written quizzes, sight-reading exercises, memorization checks, musical content checks, in-class participation, and concert performances.

9017 or 906

CHOIR 3 or VOCAL ENSEMBLE

Grades 10, 11, 12 / 1 Semester / .50 Credit

Meets concurrently with Choir 1 & 2.

Prerequisites: Completion of Choir 1 and Choir 2.

Goals and Objectives: To successfully prepare choral repertoire from a variety of musical styles and periods by learning the skills of musical performance and vocal health in a rehearsal setting.

Content and Methods: The course will focus on learning and preparing musical repertoire for concert performances throughout the semester. Students will be expected to

increase their musical reading and performance skills through exercises provided by the instructor, and through consistent progress in rehearsals.

Evaluation and Grading: Students will be evaluated via written quizzes, sight-reading exercises, memorization checks, musical content checks, in-class participation, and concert performances.

9021 or 975

GUITAR 1 or FR GUITAR

Grades 9, 10, 11, 12 / 1 Semester / .50 Credit

Goals and Objectives: The goal of the Guitar 1 class is to establish the fundamentals of acoustic guitar playing, note reading, and an understanding of the construction of scales and chords.

Content and Methods: Students will perform as a class once a quarter at school functions. Class time will be focused on practicing fundamentals and rehearsing ensemble repertoire.

Evaluation and Grading: Students will make video recordings of themselves to submit for grading and will also be expected to perform individually or as a small ensemble.

9022 or 911

GUITAR 2 or SOPH GUITAR

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Completion of Guitar 1 or instructor approval in specific cases.

Goals and Objectives: The goal of the guitar 2 class is to provide students the experience of playing acoustic guitar in an ensemble and to

FINE ARTS COURSE DESCRIPTIONS

develop their individual playing ability.

Content and Methods: Students will perform as a class once a quarter at school functions. Class time will be focused on practicing fundamentals and rehearsing ensemble repertoire. Students will also be expected to show progress in their ability to interpret and perform solo pieces.

Evaluation and Grading: Students will make video recordings of themselves to submit for grading and will also be expected to perform individually or as a small ensemble.

9023 or 913

GUITAR 3 or GUITAR ENSEMBLE

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Completion of Guitar 1 and/or Guitar 2 or instructor approval in specific cases.

Goals and Objectives: The goal of the Guitar 3 class is to provide students the experience of playing guitar in an advanced ensemble, to develop the student's playing ability, and to discuss options for future musical growth.

Content and Methods: This class will include repertoire and performance opportunities designed to assist guitarist in meeting their musical goal. Students will perform as a class once a quarter at school functions. Class time will be focused on practicing fundamentals and rehearsing ensemble repertoire.

Evaluation and Grading: Students will make video recordings of

themselves to submit for grading and will also be expected to perform individually or as a small ensemble.

9024 or 905

STRINGS 1 or FRESHMEN STRINGS

Grades 9, 10, 11, 12 / 1 Semester / .50 Credit

Goals and Objectives: The goal of the Strings 1 class is to provide students the experience of playing a violin, viola, cello, or bass in an ensemble and to develop their individual playing ability.

Content and Method: Students will perform as a class once a quarter at school functions. Class time will be focused on practicing fundamentals and rehearsing ensemble repertoire.

Evaluation and Grading: Students will make video recordings of themselves to submit for grading and will also be expected to perform individually or as a small ensemble.

9025 or 904

STRINGS 2 or STRINGS ENSEMBLE

Grades 10, 11, 12 / 1 Semester / .50 Credit

Meets concurrently with Strings 3.

Prerequisites: Completion of Strings 1 or Instructor Approval in specific cases.

Goals and Objectives: The goal of the Strings 2 class is to provide students the experience of playing a violin, viola, cello, or bass in an advanced ensemble, to develop the student's playing ability, and to discuss options for future musical growth.

Content and Methods: Students will perform as a class once a quarter at school functions. Class time will be focused on practicing fundamentals and rehearsing ensemble repertoire. Students will also be expected to show progress in their ability to interpret and perform solo pieces.

Evaluation and Grading: Students will make video recordings of themselves to submit for grading and will also be expected to perform individually or as a small ensemble.

9026 or 997

STRINGS 3

Grades 10, 11, 12 / 1 Semester / .50 Credit

Meets concurrently with Strings 2.

Prerequisites: Completion of Strings 1 and/or Strings 2 or Instructor Approval in specific cases.

Goals and Objectives: The goal of the Strings 3 class is to provide students the experience of playing a violin, viola, cello, or bass in an as leaders in an advanced ensemble, to develop the student's playing ability, and to discuss options for future musical growth.

Content and Methods: Students will perform as a class once a quarter at school functions. Class time will be focused on practicing fundamentals and rehearsing ensemble repertoire. Students will also be expected to show progress in their ability to interpret and perform solo pieces.

Evaluation and Grading: Students will make video recordings of themselves to submit for grading and

FINE ARTS COURSE DESCRIPTIONS

will also be expected to perform individually or as a small ensemble.

THEATER ARTS

9031 or 921

ACTING 1: What is Acting?

Grades 9, 10, 11, 12 / 1 Semester / .50 Credit

Goals and Objectives: An introduction to the worlds of theatre, film and television with an emphasis on the person who stands at the center of all these experiences - the actor. Students will perform from a script, build their improvisational skills, learn to control how they present themselves and gain the invaluable ability to become comfortable being uncomfortable. Class will briefly examine the other elements of the theatre as well including directing, set, sound, costume and lighting design.

Content and Methods: Centering around in class exercises which will include performing scenes from a published script, performing improvisation and other storytelling techniques.

Evaluation and Grading: Grades are based on performance skills development, completed projects, student critiquing, student effort and teacher assessment of acting projects.

9032 or 939

ACTING 2: Comedy

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Completion of Acting 1 or instructor approval in specific cases.

Goals and Objectives: An in depth study of acting techniques and script analysis, centering around comedy and the principles that drive it. Students will participate in improvisation exercises, scene work and monologues. Students hone skills in divergent thinking, performing and mastering their own nervous habits which will assist them in many arenas outside of Acting.

Content and Methods: Students participate in multiple acting projects, ranging from simple to more complex throughout the semester. Utilizing short textbook readings, specific comedic terminology and theory is learned and scene analysis principles applied.

Evaluation and Grading: Grades are based on performance skills development, completed projects, handouts on reading, student critiquing and self-evaluation, student effort, and teacher assessment of scene work/acting projects.

9033 or 922

ACTING 3 or ADV ACTING: Directing/Playwriting & Shakespeare

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Completion of BOTH Acting 1 and Acting 2 or instructor approval in specific cases.

Goals and Objectives: Challenging scenes provide learning opportunities considerably more difficult than previous studio work.

Content and Methods: Students will not only perform a scene from a Shakespeare play but will also explore directing. Finally, students will direct

short scenes written by others in the class.

Evaluation and Grading: Grades are based on performance skill development, completed projects, handouts accompanying acting projects, student critiquing and self-evaluation, student effort, and teacher assessment of scene work/acting projects.

956

PERF/PRO: Full Performance

Grades 11, 12 / 1 Semester / .50 Credit

Prerequisites: Completion of Acting 3 or Instructor Approval.

Goals and Objectives: Students will continue studying Acting/technical techniques and elements while being asked to create their own theatre company. Through daily studio expression, the Actors and directors will hone skills, which will take them to public performance level presentation. Students will write, produce, stage, and design technically a theatrical piece before a public audience. *If you've never had time to join Theatre Xavier, but have wanted to perform on stage during high school, let this class fulfill that dream.*

Content and Methods: Daily activities and theatre games will provide skill development in emotion, action/reaction, giving and taking, environment reaction, use of props, vocal characterization, physical characterization, and character development. Increased usage of and understanding of lighting provides experience and enhances technical skills. Working as its own "Production Company", students will manage a production of a theatrical

FINE ARTS COURSE DESCRIPTIONS

piece from beginning to end, insuring their experience with the following: auditioning, casting, rehearsal techniques, production organization, stage management, costuming, makeup, sound, lighting, advertising, ticketing, and performance to an audience.

Evaluation and Grading: Daily activities and goals will be clearly presented and evaluated by each student. Student cooperation, collaboration, inspiration, and effort are key elements. Successful accommodation of each production stage – from auditioning through opening – will be student evaluated and teacher evaluated. Final evaluation will come from the audience itself.

9041 or 923 STAGECRAFT 1 or BACKSTAGE TECHNIQUES 1 *Grades 10, 11, 12 / 1 Semester / .50 Credit*

Students will utilize electric and manual tools, such as drills, circular saws, sanders, hand saws. Safety and care are essential components of daily classroom activity. Safety equipment will be used and safety practices will be maintained at all times. Students do not need a background in theatre for this course.

Prerequisites:

- Sophomore (to complete Fine Arts requirements) completion of Acting 1 or Drawing 1.
- Sophomore/Junior/Senior - completion of Fine Arts requirements (2 semesters) in ANY genre(s).

Goals and Objectives: Students learn elements of scenic design, methods of

props-making, building methods for set creation, create set pieces for plays, build models of set designs, learn painting techniques and lighting techniques. Students will learn about and appreciate the backstage elements, which support theatrical production.

Content and Methods: Building processes will be demonstrated. Students will work with wood/lumber, steel, foam, and other set building products. They will be taught to drill, saw, paint, sketch designs, staple and nail. Step by step methodology and proficiency are features of their skill development. **Evaluation and Grading:** Grading will be based on daily involvement in project building, teacher critiquing during project work, small group work, use of terminology/vocabulary, step by step methods followed, student effort, and final critiquing and evaluation of projects.

9042 or 924 STAGECRAFT 2 or BACKSTAGE TECHNIQUES 2 *Grades 10, 11, 12 / 1 Semester / .50 Credit*

Students will utilize electric and manual tools, such as drills, circular saws, sanders, hand saws. Safety and care are essential components of daily classroom activity. Safety equipment will be used and safety practices will be maintained at all times. Students do not need a background in theatre for this course.

Prerequisites: Completion of Backstage Techniques 1.

Goals and Objectives: Students will explore stage engineering and design work, helping them understand why

certain building techniques and materials are used in a number of applications. They will create designs for specific theatrical production. Introduction to the craft of Stage Management features student learning in organization, short-had stage directions, and cue calling for a production.

Content and Methods: Beginning with metal building techniques in the form of MIG welding, the student will see examples of correct and incorrect metal working, using the skill to engineer steel structures for stage productions. Design will be assisted through reading and research; including books, internet, and conversations with other technical directors from the area. Stage Management will consist of creating a Stage Manager's Book and learning the chain of command and proper backstage form, utilizing text reading from a variety of resource materials.

Evaluation and Grading: Grading will be based on the student's understanding of techniques of theatre construction through project work (construction or design), as well as his skill development in collecting research information. Vocabulary terms will be tested, as will proper formulas for engineering and design of stage sets, and set pieces.

DANCE

9051 or 932 MOVEMENT AND DANCE 1 *Grades 9, 10, 11, 12 / 1 Semester / .50 Credit*

Goals and Objectives: Students will explore the elements of dance and movement theory necessary for all

FINE ARTS COURSE DESCRIPTIONS

dance techniques and styles. Students will create, perform, respond, and connect to a variety of dance that will challenge students physically and intellectually.

Content and Methods: Students will explore movement that impacts alignment function, range, and efficiency with intention. Emphasis will be on discovering their movement patterns and improving movement pathways while engaging self-knowledge of body awareness, alignment, strength, flexibility and endurance.

Evaluation and Grading: Grades are based on participation and effort, skill development, and reflective writing. Students will demonstrate skill development through solo and ensemble performance with use of space, time and dynamics. Projects include written critiques, research projects, written tests for terminology and history. Video will be a common practice tool for student growth and skill set feedback.

9052 or 957

MOVEMENT AND DANCE 2

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Completion of Movement and Dance 1 or Teacher Approval in specific cases.

Goals and Objectives: Students will build upon their movement knowledge by studying techniques of ballet and jazz.

Content and Methods: Students explore the disciplines through traditional methods of warm-up; floor and barre work, anaerobic and aerobic activities; axial and locomotor

sequences including jumps and turns and cool down. Students will gain physical knowledge of alignment, balance, gesture, rhythm and use of space with a continued emphasis on strength, flexibility and endurance. Problem solving and creative thinking skills will be utilized as students develop movement language to express themselves through various dance languages. Dance appreciation will include terminology, skills of analysis, writing and criticism as well as knowledge of choreographers and dancers both current and historical.

Evaluation and Grading: Grades are based on participation, effort, and skill development. Students will demonstrate skills through technical demonstration and performance. Projects include written critiques, research projects, written tests for terminology and history. Video will be a common practice tool for student growth and skill set feedback.

VISUAL ARTS

9061 or 958

DRAWING 1

Grades 9, 10, 11, 12 / 1 Semester / .50 Credit

Goals and Objectives: This course deals with the fundamental elements and principles of visual art. Students will learn how to identify and understand line, space and form, as well as develop observational accuracy through drawing. Students will experiment with a variety of techniques including contour line drawing, and value. This course will help to develop an understanding of the physical characteristics and limits of grounds, media and the rules of composition.

Content and Methods: By breaking drawing down to its simplest elements, students will build a strong visual foundation. Students will create drawings from direct observation, as well as drawings that replicate existing imagery. Emphasis is placed on proper usage of drawing mediums and development of technical and observational skills.

Evaluation and Grading: An assessment of student performance in the course will be based on class work, development, handling of materials, preparation for project work, finished works, and student research. Grading criteria consists of work ethic, participation, attendance, craftsmanship, creativity and aesthetic development, idea development, exploration, studio awareness and project deadlines.

9062 or 959

DRAWING 2

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Completion of Drawing 1 or instructor approval in specific cases.

Goals and Objectives: This course allows students to further develop the elements and principles of visual art. This course allows students to create with new and different artistic mediums, such as ink, charcoal, marker, colored pencil, collage, etc. Students are encouraged to continue to push their technical abilities, while also expanding their creative output. This course will also teach students the proper ways to critique works of art, both orally and in written form.

FINE ARTS COURSE DESCRIPTIONS

Content and Methods: Students will focus on the continued development of observational drawing skills and the exploration and study of composition. Students will begin to build creative themes and ideas with more involved techniques and advanced processes. The class is a working studio. Demonstration, lecture, history and critique are all integral methods used in the studio setting.

Evaluation and Grading: An assessment of student performance in the course will be based on class work, development, handling of materials, preparation for project work, finished works, and student research. Grading criteria consists of work ethic, participation, attendance, craftsmanship, creativity and aesthetic development, idea development, exploration, studio awareness and project deadlines.

9063 or 946

DRAWING 3 or DRAW/DESIGN

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Completion of BOTH Drawing 1 and Drawing 2 or instructor approval in specific cases.

Goals and Objectives: This course is designed specifically for the student who has achieved a level of proficiency in drawing and is interested in pursuing more complex work in this area. The emphasis of the course will be on building specific drawing skills, understanding and executing more complex compositions, building creative themes and ideas, manipulating various materials and practicing more involved techniques.

Content and Methods: Content focuses on continued exploration and study of compositional elements and principles. Students will work with a wide range of subject matter: self-portrait, figures drawn from photographic sources, imaginary figures, literal landscape, dreamscape, abstraction, collage, etc. Students will also be exposed to a large variety of techniques and media: decollage, foreshortening, multiple perspectives, digital work, print techniques, etc. The class is a working studio. Demonstration, lecture, history and critique are all integral methods used in the studio setting.

Evaluation and Grading: An assessment of student performance in the course will be based on class work, development, handling of materials, preparation for project work, finished works, and student research. Grading criteria consists of work ethic, participation, attendance, craftsmanship, creativity and aesthetic development, idea development, exploration, studio awareness and project deadlines.

970

AP DRAWING STUDIO

Grades 11, 12 / 2 Semesters / 1 Credit

Prerequisites: Completion of BOTH Drawing 1 and Drawing 2, OR Drawing 1 and 2D Design AND instructor approval. See Mr. Mosley (room 2255) if you are interested in taking this course.

Goals and Objectives: This is a college level drawing course with the primary objective of preparing a portfolio of work that meets the standard requirements for admission

into college art programs, as well as for the Advanced Placement examination in May for college credit. This course is designed specifically for the very talented and industrious students of art, who are seriously interested in the practiced experience of drawing. Line quality, light and shade, rendering of form, composition, surface manipulation, exploration of different media, the illusion of depth and mark-making are all addressed.

Content and Methods: Students selected for this class need to be aware that AP work involves significantly more commitment and accomplishment than the typical studio art course. The content for this course follows requirements set forth by the Advanced Placement College Board and deals specifically in three areas: Section I *Quality*, Section II *Concentration* and Section III *Breadth*. The *Quality* section requires that the student exhibit the ability to make choices based on the total work of art – the concept, composition and technical skills demonstrated, and the realization of the artist’s intentions. The *Concentration* section requires that the student demonstrate a depth of sustained investigation through an arena of personal choice, a particular idea developed and expressed visually. The *Breadth* section must demonstrate a serious grounding in various visual principles and material techniques through a range of artistic approaches.

Evaluation and Grading: Grading will be based on assigned projects, creative output, and a final portfolio consisting of works in three major areas: *Quality*, *Concentration* and *Breadth*. Grading criteria consists of

FINE ARTS COURSE DESCRIPTIONS

work ethic, idea development and exploration, aesthetic development, creativity, participation and craftsmanship.

9071 or 948

CERAMICS or CERAMICS 1

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Completion of Fine Arts requirements (2 semesters) in ANY genre(s).

Goals and Objectives: This course deals with three-dimensional design using clay as the medium. The course seeks to continue the student's development and understanding of the essential elements and principles of art through a basic studio experience in clay preparation, construction, surface design, and firing.

Content and Methods: The student is given a concentrated studio experience, which focuses on specific elements and principles as they relate to three-dimensional design. The student will learn the appropriate use of tools and techniques to produce variations of basic pinch, coil, slab, thrown, or sculptured forms. The student will acquire and apply a new vocabulary of clay usage and properties. Procedures will include: lecture, discussion, question, testing and analyzing experiences peculiar to the discipline.

Evaluation and Grading: Evaluation will be implicit throughout the course. The following techniques will be employed: Project evaluation, tests and quizzes and written and oral critiques, class participation, discussion, problem solving, group work and exhibits.

9069 or 942

PAINTING

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Completion of Fine Arts requirements (2 semesters) in ANY genre(s).

Goals and Objectives: This course deals with the use of paint as an artistic form of expression and visual communication. Emphasis is placed on acrylic and oil. The primary aim of the course is to teach students – even those who have never painted before – fundamental painting techniques. Students will learn to control the painter's materials, relate color, manipulate the perception of two and three-dimensional space and also develop a basic vocabulary with regard to the qualities of paintings. Further, the course aims to explore some of the historical and contemporary influences of painting and also allows students to analyze and critique professional works, as well as their own works and the work of their peers.

Content and Methods: This course deals with a large assortment of materials, canvas, various types of pigment, brushes, mediums, etc. Most supplies are provided, however some additional supplies may need to be purchased. Emphasis is on student work, discussion and critique of the student projects.

Evaluation and Grading: An assessment of student performance in the course will be based on class work and development, finished paintings and student research. Grading criteria consists of work ethic, participation, attendance, craftsmanship, creativity and aesthetic development, idea

development, exploration, studio awareness and project deadlines.

952

PHOTOGRAPHY

Grades 11, 12 / 1 Semester / .50 Credit

Note: *Cameras are NOT provided. Each student must have or have access to a 35mm film camera that has manual focus, manual metering and manual adjustments for both aperture and shutter speed. Students must also have or have access to a Digital Camera that has manually adjustable settings and is capable of taking at least 5 mega pixel digital photographs.*

Prerequisites: Completion of Fine Arts requirements (2 semesters) in ANY genre(s).

Goals and Objectives: This course is designed to teach the fundamental skills and basic techniques in photography. It focuses on the practical aspects of photography from composing and capturing the image, to processing the negatives and finally developing the final print. Special emphasis will be placed upon aesthetic and visual concerns as well as craftsmanship. The course covers both traditional black and white darkroom photography, as well as contemporary digital photography. One half of the course will be based on a basic understanding and operation of the 35mm film loaded camera, the lens, the shutter, film types, film exposure, black and white film development, the negative, making the print, and using the darkroom and darkroom equipment. In the other half of the course, the students will use digital photography to produce interesting and creative

FINE ARTS COURSE DESCRIPTIONS

artwork based on conceptual idea development. They will work with image editing software programs such as Photoshop, to enhance and manipulate photographs, as well as to understand and solve graphic design issues.

Content and Methods: Emphasis is placed on the application of technique in terms of personal expression, through the selection and composition of subject matter. Class size is limited to dark room spaces, providing for a greater degree of individual critique and classroom participation. The course comprises technical lectures, darkroom demonstrations, as well as class critiques. The majority of the photographs for this course are taken outside of class time, which means that the students must devote time after school and on weekends to producing photographs.

Evaluation and Grading: An assessment of student performance in the course will be based on class work, development, handling of materials, preparation for project work, finished works, and student research. Grading criteria consists of work ethic, participation, attendance, craftsmanship, creativity and aesthetic development, idea development, exploration, studio awareness and project deadlines.

9070 or 945

SCULPTURE or 3D DESIGN

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites:

- Sophomore (To complete Fine Arts Requirements) - completion of Drawing 1
- Sophomore/Junior/Senior (Elective) - completion of Fine

Arts requirements (2 semesters) in ANY genre(s).

Goals and Objectives: This course is designed specifically to allow students to work toward, experience and experiment with three-dimensional structure. Students will explore the concept of solid art forms that have height, width and depth by researching, analyzing and constructing original sculpture. Students will:

- Understand 3D design principles such as form, structure, volume, visual balance, surface treatment, texture, composition, movement and scale.
- Develop problem solving techniques and a visual vocabulary through an understanding of the creative process, personal aesthetic and conceptual intent.
- Refine and develop their own sculptures through working models.
- Experiment with additive, subtractive, constructive, relief and installation sculptural processes.

Content and Methods: The class deals with the elements of sculpture: form, space, mass, light. From the technical standpoint materials and methods of the sculptor are discussed, studied and explored. Students will work with experimental and introductory techniques and materials; they will work with both addition and subtraction methods. Plaster, paper, wood, clay, wire, styrofoam and various other materials will be used. Students will be given assignments and be expected to research different artists and methods in order to help them visualize a

number of directions in which the assignment might possibly be completed. At pre-announced times during the semester, group critiques will take place and all students are expected to participate in the discussions.

Evaluation and Grading: An assessment of student performance in the course will be based on class work, development, handling of materials, sketches for project work, finished sculptural works, and student research. Grading criteria consists of work ethic, participation, attendance and punctuality, craftsmanship, creativity and aesthetic development, idea development, exploration, studio awareness and project deadlines.

9065 or 953

2D DESIGN

Grades 10, 11, 12 / 1 Semester / .50 Credit

Prerequisites: Completion of Drawing 1 or instructor approval in specific cases.

Goals and Objectives: In this class, students will be introduced the core concepts of visual design – visual elements, principles of design, picture plane, figure/ground relationships, scale and proportional transformation, patterning, composition, value, color, methods for conveying time, and spatial illusion. Using a wide variety of materials and methods, students are encouraged to develop their own design vocabulary and repertoire of practical techniques. Composition issues and strategies valid in all areas of visual design and the visual arts are explored through examples, exercises, critiques, and projects.

FINE ARTS COURSE DESCRIPTIONS

Content and Methods: *Materials:*

Students will use traditional and new techniques, including but not limited to paper and pencil, printmaking, collage, screening, and computer illustration. The class will progress from simple composition and image creation exercises to fully realized design based projects. Drawing and rendering skills are helpful but not required; an interest in the visual language of design and creativity is a must.

Evaluation and Grading: An assessment of student performance in the course will be based on class work, development, handling of materials, preparation for project work, finished works, and student research. Grading criteria consists of work ethic, participation, attendance, craftsmanship, creativity and aesthetic development, idea development, exploration, studio awareness and project deadlines.

990 GRAPHIC DESIGN

Grades 11, 12 / 1 Semester / .5 Credit

Prerequisites: Completion of BOTH Drawing 1 and 2D Design.

Goals and Objectives: In this class, students will continue to develop and enhance the design vocabulary and techniques learned in 2D Design. Projects completed will range from simple design assignments to complete identity packages developed within formal yet creatively accessible constraints. Students will present multiple solutions to each assignment, and then complete the assignments based on feedback from the teacher, who will act as a “real-life” client of the student.

Content and Methods: *Materials:*

Students will use traditional and new techniques, including but not limited to paper and pencil, collage, and computer illustration. The class will progress from simple composition and image creation exercises to fully realized design based projects. Example assignments include a complete business identity, a web-based portfolio, as well as formal explorations of design problems.

Evaluation and Grading: Assessment of student performance in the course will be based on class work, development, handling of materials, preparation for project work, finished works, and student research. Grading criteria consists of work ethic, participation, attendance, craftsmanship, creativity and aesthetic development, idea development, exploration, studio awareness and meeting project deadlines.

971 AP 2D DESIGN STUDIO

Grades 11, 12 / 2 Semesters / 1 Credit

Prerequisites: Completion of BOTH Drawing 1 and 2D Design OR Drawing 1 and Drawing 2, AND instructor approval. See Mr. Mosley (room 2255) if you are interested in taking this course.

Goals and Objectives: This is a college level design course with the primary objective of preparing a portfolio of work that meets the standard requirements for admission into college art programs, as well as for the Advanced Placement examination in May for college credit. This course is designed specifically for the very talented and industrious student of art, who are seriously

interested in the practiced experience of visual design. This course revolves around creating artwork on a two-dimensional ground, but not necessarily limited to practice of drawing. Students are asked to demonstrate understanding through any two-dimensional medium or process, including, but not limited to, mixed media, graphic design, digital imaging, photography, collage, fashion design, illustration, drawing, painting and printmaking.

Content and Methods: Students selected for this class need to be aware that AP work involves significantly more commitment and accomplishment than the typical studio art course. The content for this course follows requirements set forth by the Advanced Placement College Board and deals specifically in three areas: Section I *Quality*, Section II *Concentration* and Section III *Breadth*. The *Quality* section requires that the student exhibit the ability to make choices based on the total work of art – the concept, composition and technical skills demonstrated, and the realization of the artist’s intentions. The *Concentration* section requires that the student demonstrate a depth of sustained investigation through an arena of personal choice, a particular idea developed and expressed visually. The *Breadth* section must demonstrate a serious grounding in various visual principles and material techniques through a range of artistic approaches.

Evaluation and Grading: Grading will be based on assigned projects, creative output, and a final portfolio consisting of works in three major areas: *Quality*, *Concentration* and *Breadth*. Grading criteria consists of

FINE ARTS COURSE DESCRIPTIONS

work ethic, idea development and exploration, aesthetic development, creativity, participation and craftsmanship.