

2016-2017 COURSE CATALOG



Courses are organized alphabetically by course number and will include a course description.

Course Number Key:

A = Arts

C = Science

E = English

L = International Language

M = Math

P = Physical Education/Health

R = Theology

S = Social Studies

A215 & A216 - INTRODUCTION TO FINE ARTS & MUSIC (1 credit each)

This course is a required, year-long course broken into two semesters for sophomores. Introduction to Fine Art (A215): this one-semester course gives O'Dea students the visual vocabulary and appreciation of great artists and their work throughout the continents of the world. Introduction to Music (A216): this one-semester course providing students with the active listening skills necessary to appreciate music throughout history and from all corners of the world.

A110 – STUDIO ART I (2 credits)

This course offers students an introduction to the elements and principles of design. For each art element and principal, students will learn vocabulary and complete projects relevant to the topic. Students will have the opportunity to create art using several different media including pencil, charcoal, oil pastels, acrylic paint, watercolors, colored pencil, watercolor pencil, wire, printmaking, fabric, yarn. The goal of this class is that students gain a vocabulary for making and discussing art, and experience working with a variety of one- and two-dimensional media. \$75.00 studio fee – there is no textbook required.

A120 – BAND I (2 credits)

O'Dea's Band moves freely between Jazz, Rock, and Pep Band styles of music. Our musicians are adaptable to nearly any situation from sporting events, and assemblies to school liturgies and fund raising events. The O'Dea Band plays over 30 events every year, and holds 2 concerts a year. Band is a 0 period class and rehearses 4 days a week before school. Band students can also earn a Varsity Band Letter.

A130 – CHOIR I (2 credits)

Choir will focus on singing in varied styles and from varied historical periods. The selected literature will be from songs, concert literature, and liturgical pieces written or adapted for male voices, and could include original arrangements by the instructor, and/or students. Skills developed will include pitch and tone, sight singing, rhythm, unison and part singing, diction, languages, critical thinking and listening, concert etiquette, and rehearsal technique. Performance opportunities will include Concerts, Festivals, and Liturgical Choir activities. Opportunities for singing in full concert choir settings will be sought out. Students will develop their knowledge in music theory, history, general music appreciation skills, and performance concepts and styles.

A140 – PHOTOGRAPHY I (2 credits)

Photography I focuses on digital and analogue camera operations, exposure techniques, output and printing, elements of composition and theory. Students will enhance their critical and creative thinking, demonstrating this through describing their aesthetic judgment, analyzing their assignments and participating in class discussion. Classes will consist of lectures, demonstrations, critique, class discussions and presentations of noted photographers. Students will be given photography assignments designed around the technical and theoretical information presented in class.

A210 – STUDIO ART II (2 credits)

This course builds on the design principals learned in Studio Art I. Working independently with supervision, students choose projects based on their interests with the goal of completing a college application worthy portfolio of artwork with advanced materials such as encaustics, airbrush, and oil paint.

A220 – BAND II (2 credits)

O’Dea’s Band moves freely between Jazz, Rock, and Pep Band styles of music. Our musicians are adaptable to nearly any situation from sporting events, and assemblies to school liturgies and fund raising events. The O’Dea Band plays over 30 events every year, and holds 2 concerts a year. Band is a 0 period class and rehearses 4 days a week before school. Band students can also earn a Varsity Band Letter.

A230 – CHOIR II (2 credits)

Choir will focus on singing in varied styles and from varied historical periods. The selected literature will be from songs, concert literature, and liturgical pieces written or adapted for male voices, and could include original arrangements by the instructor, and/or students. Skills developed will include pitch and tone, sight singing, rhythm, unison and part singing, diction, languages, critical thinking and listening, concert etiquette, and rehearsal technique. Performance opportunities will include Concerts, Festivals, and Liturgical Choir activities. Opportunities for singing in full concert choir settings will be sought out. Students will develop their knowledge in music theory, history, general music appreciation skills, and performance concepts and styles.

A320 – BAND III (2 credits)

O’Dea’s Band moves freely between Jazz, Rock, and Pep Band styles of music. Our musicians are adaptable to nearly any situation from sporting events, and assemblies to school liturgies and fund raising events. The O’Dea Band plays over 30 events every year, and holds 2 concerts a year. Band is a 0 period class and rehearses 4 days a week before school. Band students can also earn a Varsity Band Letter.

A420 - BAND IV (2 credits)

O’Dea’s Band moves freely between Jazz, Rock, and Pep Band styles of music. Our musicians are adaptable to nearly any situation from sporting events, and assemblies to school liturgies and fund raising events. The O’Dea Band plays over 30 events every year, and holds 2 concerts a year. Band is a 0 period class and rehearses 4 days a week before school. Band students can also earn a Varsity Band Letter.

Science

C140 – CONCEPTUAL PHYSICS (2 credits)

This is a survey course of the physical and chemical interactions of matter and how the universe works. We will explore concepts of motion, force, energy, gravity, sound and light, electricity, and magnetism. Properties of matter are examined through the atomic nature of matter, its

structures and interactions. Laboratory investigations emphasize observation of phenomena, recording and interpreting data. The material in this course serves as a background for subsequent courses in chemistry and physics.

C142 – CONCEPTUAL PHYSICS HONORS (2 credits)

Conceptual Physics Honors follows an expanded curriculum from that of ‘regular’ Conceptual Physics, with more emphasis on problem-solving skills and math solutions to physics problems. While still a survey course of the physical and chemical interactions of matter, there is expanded coverage of topics in Mechanics, as well as selected study in the areas of Heat, Light, and Atomic and Nuclear Physics. We will explore concepts of motion, force, energy, gravity, sound and light, electricity, and magnetism. Properties of matter are examined through the atomic nature of matter, its structures and interactions. Laboratory investigations emphasize development of process skills and safe manipulation of laboratory apparatus and materials. The material in this course serves as a background for subsequent courses in chemistry and physics at the honors level.

C240 – BIOLOGY HONORS (2 credits)

Biology Honors is designed to cover the same curricular areas as Biology but in more depth and at an accelerated pace. Emphasis is on gene expression, biotechnology, and protein synthesis. Laboratory work enhances the student’s knowledge of classic experiments utilizing the scientific method of inquiry.

C242 – BIOLOGY (2 credits)

Biology is an introductory course that deals with all major areas of biological science, such as ecology, biochemistry, heredity, molecular biology, evolution by natural selection, phylogeny, microbiology, plant, fungal, and animal studies. Laboratory work will give students direct experience with the process which scientists use in obtaining their theories.

C340 – CHEMISTRY HONORS (2 credits)

Chemistry Honors is designed to prepare the student to think abstractly. It is designed to teach the students to develop models in order to solve complex problems. A systematic approach is taken in the investigation of the atom, molecular structures and other chemical compositions. Laboratory periods supplement the lectures to allow the students to understand the intricacies of the subject.

C342 – CHEMISTRY (2 credits)

Modern chemistry introduces the basic principles and concepts of chemistry in the context of laboratory experiments, textbook, computer, and exercise materials. The course includes a presentation of chemical theory and descriptive chemistry with emphasis on the elements and compounds. Equation, formula writing and mathematics for chemical calculations are emphasized. Laboratory periods allow students to explore the theories of chemistry and in doing so, recognize the relationship between theory and practice.

C441 - ADVANCED PLACEMENT PHYSICS I (2 credits)

This is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based

investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits.

C442 – PHYSICS (2 credits)

This course is an exploration of the basic concepts and precepts behind the science of physics. The central theme of physics is the relationship between matter, energy, and the dynamics of motion. Emphasis will be placed on critical thinking and a careful analysis of why certain results occur. Extensive laboratory work will be used to test the students' ideas. While conceptual development of the physics is the main emphasis, prediction of physical outcomes will require some mathematical problem solving skills. A recommended concurrent mathematics class is Calculus, or Intro to Calculus.

C443 - ADVANCED PLACEMENT BIOLOGY (2 credits)

This is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes — energy and communication, genetics, information transfer, ecology, and interactions.

C444 - ADVANCED PLACEMENT CHEMISTRY (2 credits)

This course provides students with a college-level foundation to support future advanced course work in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium.

C450 - INTRODUCTION TO ROBOTICS (2 credits)

This class will review the basic principles of Robotics, as well going over some of the history of robotic devices. The concept of robot programming will be introduced. The majority of the course will be done in groups, and the grading will be heavily group oriented. In these groups, the students will work with robot kits, and then start programming these robots for an assortment of tasks. Group grades will be assigned based on task completion. Several group reports will be done, and group grades assigned. Short quizzes and tests for assessment of individual learning will constitute the individual portion of the student's grade.

C460 - ANATOMY AND PHYSIOLOGY (2 credits)

This is a two-semester, laboratory, science class that focuses on the relationship between the structure and function of the human body. Students will learn anatomical terminology, examine the structure and function of cells, and look at the various tissues of the body. Students will study the various systems associated with the human body: muscular, skeletal, digestive, nervous, circulatory, and others. The specific relevance to student life and health, diseases associated with each system, and scientific and medical research related to human biology will also be examined.

C470 – ENVIRONMENTAL SCIENCE (2 credits)

Environmental science is a survey course where students will learn the methodology and concepts needed to evaluate and mitigate our impact on the earth's natural biodiversity, natural resources, and environmental health. A critical thinking course, students will learn how environmental topics are discussed in media and in science to become informed and responsible stewards of our earth.

P455 - INTRODUCTION TO SPORTS MEDICINE (2 credits)

Introduction to Sports Medicine will provide students an opportunity to learn and apply a variety of components from the field of sports medicine. Students will be educated on careers of allied health professionals, organizational and administrative considerations, prevention of athletic injuries, recognition, evaluation, and immediate care of athletic injuries, taping and wrapping techniques, first aid/CPR/AED, emergency procedures, nutrition, medical terminology, human anatomy and physiology, therapeutic modalities, and therapeutic exercise. Aside from standard lecture time; students will learn from guest lecturers, hands-on skill practice, and required observation experience.

English

E130 - ENGLISH 9 HONORS (2 credits)

English 9 Honors is an introductory freshman course concentrating on advanced skill development in composition, reading, vocabulary, and grammar. Students also will receive reinforcement in study and oral interpretation skills. The approach in reading and writing is experiential and analytical with an emphasis on personal expression. In addition, students will create a personal writing portfolio. Qualifying test scores and teacher recommendations are needed for entrance to this honors class.

E132 - ENGLISH 9 (2 credits)

English 9 is an introductory freshman course concentrating on skill development in composition, reading, vocabulary, grammar, and speech. Students will receive reinforcement in study and interpretation skills. The approach in reading and writing is experiential and analytical, with an emphasis on personal expression.

E134 – ENGLISH 9 (2 credits)

English 9 is an introductory freshman course concentrating on skill development in composition, reading, vocabulary, grammar, and speech. Students will receive reinforcement in study and interpretation skills. The approach in reading and writing is experiential and analytical, with an emphasis on personal expression.

E240 – ENGLISH 10 HONORS (2 credits)

English II Honors is an intensive and challenging chronological study of American Literature. Students will study the development of American Literature from the colonial period to the present day. Students will examine various genres of American Literature: essays, the

novel, short stories, poetry, non-fiction, etc. Students will learn how the influences of the history and development of America became evident in its literature. Students will continue to build upon their writing skills and improve their understanding and usage of grammar and vocabulary. Some of the criteria for acceptance to this course include current teacher recommendation, grades in all English classes, standardized test scores, and overall GPA.

E242 – ENGLISH 10 (2 credits)

This is a college preparatory, formal literature and composition survey course for sophomores, which covers the development of American literature from the colonial period to the contemporary. The course study is arranged chronologically, with an emphasis on close reading and analysis. Genres examined include the novel, drama, poetry, short story, and non-fiction. Students will continue to develop their writing through practicing each aspect of the formal writing process. Skills in grammar usage, reading comprehension, critical thinking, vocabulary, spelling, and oral presentation are reinforced throughout the year. In addition to shorter readings, students will explore the major themes and current resonance of classic novels such as *The Great Gatsby* and *To Kill a Mockingbird*.

E340 – ENGLISH 11 HONORS (2 credits)

Honors English 11 is a year-long course that consists of intensive reading, writing, communicating, and thinking. This is an honors-level, college-preparatory literature and composition survey course that covers the development of American literature from pre-1700 to the present day. Students will study the various forms of literature (novels, short stories, poetry, plays, non-fiction) and develop the full spectrum of English/language arts skills: reading, writing, listening and speaking. Students will also write in a variety of forms and for multiple purposes (to argue, explain, reflect, and tell a story) in order to interpret, analyze and evaluate readings and express themselves.

E342 – ENGLISH 11 (2 credits)

English 11 is a college-preparatory literature and composition survey course for juniors that covers the development of American literature from the colonial period to the present day. Students will study various forms of literature (novels, short stories, poetry, plays, non-fiction) and develop the full spectrum of language arts skills: reading, writing, listening and speaking. Through individual and small group work, we will focus on the process of writing, progressing from generating ideas to publishing final products, and on specific strategies of successful readers. Actively participating in classroom discussions will be a core part of achieving success in this course.

E420 – ENGLISH 12 HONORS (2 credits)

This is a college preparatory course designed to explore the development of the English Language and its literature through a chronological study of major British authors. The class is theme-based according to historical and literary periods. The exploration of these themes will consist of various texts and augmented with a variety of British and non-British novels. Rhetoric will be infused and practiced in this curriculum. The use of various discussion paradigms will also be practiced. The writing process will be a consistent and ongoing practice in this class. Typical writing assignments will include comparative, analytical, and argumentative essays through the use of poetry, drama, short stories, essays, and novels.

E442 – ENGLISH 12 (2 credits)

This is a college preparatory course designed to explore the development of the English Language and its literature through a chronological study of major British authors. The class is theme-based according to historical and literary periods. The exploration of these themes will consist of various texts and augmented with a variety of British and non-British novels. Rhetoric will be infused and practiced in this curriculum. The use of various discussion paradigms will also be practiced. The writing process will be a consistent and ongoing practice in this class. Typical writing assignments will include comparative, analytical, and argumentative essays through the use of poetry, drama, short stories, essays, and novels.

E430 – COMMUNICATIONS HONORS (2 credits)

This course is about developing the skills to effectively communicate a message to a mass audience. These skills will be developed through the publication of the yearbook, quarterly newsletters, and a focus on digital communication. Students will have access to a variety of Adobe Publication Tools and will be using them to create, edit and refine content throughout the year.

E435 – FILM APPRECIATION AND PRODUCTION (2 credits)

This course will introduce students to basic concepts in film and other visual media such as video and Internet imaging. This course introduces students to formal vocabulary and methodology for developing the ability to consider visual texts critically. Through understanding and application of the basic concepts of film language, students will learn how elements such as editing, lighting, composition within the frame, cinematography, and sound combine to constitute filmic discourse. This course will also require students to produce films as a means of expressing their comprehension of these concepts and elements. In order to understand development in these categories, consideration will be given to film history.

International Language

L165 – HERITAGE SPANISH (2 credits)

This college preparatory course is for students whose home language is Spanish and will be taught using the textbook *Nuestro Idioma, Nuestra Herencia*. In this first level of the Spanish for Heritage Speakers Program, the student will develop their reading, listening, writing, and speaking skills in Spanish. Students will study history and culture and current events of the Spanish-speaking world. Students begin to learn basic through intermediate grammar in Spanish paired with literature and other authentic texts. Students will improve communication skills through debates and oral presentations. Students will improve written communication by focusing on advanced paragraphs and three paragraph essays. Students will be introduced to both formal and informal language. Students who complete this course will enroll in Spanish for Heritage Speakers II.

L172 – JAPANESE I (2 credits)

This course is a comprehensive program embracing the four skills associated with language: reading, writing, listening and speaking. Students learn the hiragana and katakana syllabaries (the two phonetic writing systems), along with some basic kanji (Chinese character).

The conversational focus is on everyday activities such as meals, school, sports and hobbies. Students are introduced to the geography of Japan and to some current Japanese popular culture. Students will be able to discuss all of these things in the target language. The course is supported with the Ima I text and recordings of native speakers to aid in authentic assessment activities, and to build students' confidence in their ability to converse with a native speaker.

L176 & 178 – SPANISH I (2 credits)

This introductory Spanish language course presents the learner with activities that practice the four language skills: speaking, reading and writing, as well as culture. Students will build a strong foundation in the comprehension and productions of vocabulary, conjugation and other basic grammatical structures via a communicative style. Students will learn to communicate in the present tenses using regular and irregular verbs as well as idiomatic structures. Students will use the above skills to communicate about: meeting other people, likes and dislikes, description of people and things, classes and related classroom objects, schedules, making plans, places feelings, weather, sports, ordering food, purchasing gifts, and daily routine. This course is taught with a strong textbook program, *Descubre 1*. This program includes a tutorial web-site, workbook, video/DVD component and CDs using native speakers from across the Hispanic world who visually and orally demonstrate the usage of the concepts being studied.

L265 – HERITAGE SPANISH II (2 credits)

This is a second level of the Spanish for Heritage Speakers program. In this class the students will continue to perfect their Spanish through an in-depth study of culture, history, literature, and current events. Students will study intermediate and advanced grammar concepts. Students will continue to practice both interpersonal and presentational oral and written communication. The study and analysis of Spanish language literature (which includes Spanish, Latin American and Chicano literature) is also emphasized. Students at this level write compositions of various types and purposes, but primarily focus on writing the five paragraph expository essay. This second level will continue to utilize the text *Nuestro Idioma, Nuestra Herencia*. Students who complete this course will enroll in Heritage Speakers III.

L272 – JAPANESE II (2 credits)

A continuation of Japanese I, this course builds on information taught in Japanese I, expanding the students' ability to converse about everyday subjects. Students learn more kanji (Chinese characters) and at a more intense pace than in level I. Students will expand their knowledge of verb forms and particles. Students will continue to develop confidence listening and speaking, and will feel much more confident in their reading and writing abilities at the end of this course. A section about feudal Japan and the samurai dispels some myths and helps students begin to understand the intricate history of Japan. This course is supported with the Ima II text and recordings of native speakers to aid in authentic assessment activities, and to build students' confidence in their ability to converse with a native speaker.

L276 & L278 – SPANISH II (2 credits)

Second year Spanish is a continuation of the *Descubre* program with an emphasis on acquiring vocabulary while studying the past tenses. Students will learn how to communicate about travel, leisure activities, food, art, childhood experiences, health, home and family. Again, there will be an emphasis on using the four language skills; listening, speaking, reading and writing, as well as culture to acquire Spanish. The second year curriculum demands that the student builds upon his knowledge of vocabulary and concepts learned in the first

year. Students will use the *Descubre 1* textbook and workbook for the first semester and the *Descubre 2* workbook and textbook for the second semester.

L365 – HERITAGE SPANISH III (2 credits)

This is a third level of the Spanish for Heritage Speakers program and will continue to utilize the text *Nuestro Idioma, Nuestra Herencia*. In this class the students will continue to perfect their Spanish through an in-depth study of culture, history, literature, and current events. Students will study advanced grammar concepts. Students will continue to practice both interpersonal and presentational oral and written communication. The study and analysis of Spanish language literature (which includes Spanish, Latin American and Chicano literature) is also emphasized. Students at this level write compositions of various types and purpose and will continue to hone their abilities in writing essays that will utilize the skills they have gained, with a culminating writing assignment to be determined by the instructor. Students who complete this course will enroll in Advanced Placement (AP) Spanish.

L373 – JAPANESE III HONORS (2 credits)

Japanese III Honors is a grammatical leap into the various hierarchical levels of Japanese language. Students will be doing more authentic reading and will cover most of the verb forms and tenses at the social-polite and plain levels. We will touch briefly on the Keigo (polite) forms. Students will be introduced to Japanese Haiku, sayings, and proverbs as an introduction of Japanese literature. The focus on Kanji is intense in this year.

L375 – SPANISH III HONORS (2 credits)

In this course, students will continue to utilize the *Descubre 2* textbook and workbook program. Students will be challenged to think critically within the language as they learn to analyze and express their thoughts using present, past, future, conditional, progressive, perfect, subjunctive and command verb forms. Students will communicate in all four skill areas (reading, writing, listening and speaking) regarding travel plans, the home, giving directions and suggestions, shopping, nature, geography, the environment, searching and applying for jobs, career choices, and interviewing. Students will learn to practice the art of persuasion in Spanish.

L474 – ADVANCED PLACEMENT JAPANESE LANGUAGE & CULTURE (2 credits)

This course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP Japanese Language and Culture course strives not to emphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in Japanese. The AP Japanese Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of social, political, and educational issues (e.g., the role of religion in society, traditional versus modern gender roles), as well as more traditional topics (e.g., arts, customs, festivals, geography, and history). Throughout the course, students develop interpersonal skills that enable them to request and confirm the receipt of information, ask for and provide directions, and issue and respond to invitations. They also develop more cognitively challenging functional language skills, including the

ability to compare phenomena, express opinions and preferences, and discuss life experiences. Additionally, students develop a command of a significant number of the most prevalent kanji characters used in Japanese writing.

L476 – ADVANCED PLACEMENT SPANISH LANGUAGE & CULTURE (2 credits)

AP Spanish is a college level course that follows a curriculum established by the College Board. It is equivalent to a third-year college course. Students in this course will review, refine, and master grammar concepts that have been previously introduced. They will demonstrate a high level of proficiency in the target language through speaking and writing. The course emphasizes more complex verb structures and sophisticated vocabulary while providing a more in-depth analysis of literature and culture of the Spanish-speaking world. The course will be taught explicitly in Spanish through spoken instruction, text activities, authentic texts, videos, radio broadcasts, and presentations completely in Spanish. Therefore, students will be expected to engage, speak, and read only in Spanish. It is imperative that students have a basic knowledge of the language and cultures of Spanish-speaking peoples. Students must be willing to work diligently and independently; engaging in Spanish outside of the classroom to gain extra practice. Finally, all students enrolled in this course will be strongly encouraged to take the AP Spanish Language Exam in May.

Mathematics

M132 & 134 – ALGEBRA I (2 credits)

Algebra I is designed to reinforce and develop the algebraic skills necessary for students to be successful in future mathematics courses. Students will explore: solving and graphing linear equations and inequalities; powers and exponents; polynomials and factoring; functions; and radical/rational expressions and equations. Concepts will be taught with an emphasis on problem solving and critical thinking skills.

M135 – ALGEBRA II HONORS (2 credits)

Students will explore rigorous algebraic concepts to prepare them with the skills necessary for success in pre-calculus and beyond. Quadratic functions will be reviewed and expanded to include: polynomial, radical, and rational functions; exponential and logarithmic functions; probability; and foundations in trigonometry. The class is taught with an emphasis on critical thinking and problem solving.

M230 – GEOMETRY HONORS (2 credits)

Honors Geometry covers the same topics as Geometry and in addition, it includes trigonometric functions.

M232 – GEOMETRY (2 credits)

Students will receive a formal introduction to an axiomatic mathematical system. Topics covered include points, lines, planes, congruent triangles, quadrilaterals, and geometric inequalities, similar polygons, right triangles, circles, constructions, areas of plane figures and areas and volumes of solids. While learning all topics we will utilize the classical geometric proof to explore and verify properties of Geometry.

M330 – PRECALCULUS HONORS (2 credits)

Pre-Calculus Honors is intended to prepare students for the rigors of AP Calculus. The course stresses both depth of conceptual understanding and familiarity with algebraic manipulation. The first semester is an intense review of and expansion on the basics of Algebra: linear, quadratic, rational and radical functions along with conic sections, series and approaches to problem-solving. The third quarter goes in-depth into trigonometric functions and the fourth quarter covers limits, rates of change and the derivative as the basic concepts introducing calculus.

M333 – ALGEBRA II/TRIGONOMETRY (2 credits)

Students will review basic Algebra, linear equations and systems of linear equations and inequalities. Matrices and determinants will be introduced. The concept of quadratic functions will be reviewed and expanded to include inverse functions, radical functions, exponential and logarithmic functions, polynomial functions, rational functions, and trigonometric functions. Graphing utilities will be used throughout the course.

M334 – ALGEBRA II (2 credits)

Students will review basic Algebra, linear equations and systems of linear equations and inequalities. The concept of the function will be explored through quadratic equations, polynomials, rational functions, inverse functions, exponential and logarithmic functions. A graphing approach will be implemented throughout the course.

M430 – ADVANCED PLACEMENT CALCULUS AB (2 credits)

AP Calculus will introduce students to many of the topics contained in a rigorous freshman college course with a stress on a deep understanding of the underlying concepts. The syllabus will follow the outline described in the Advanced Placement Course description. Students will be prepared to take the AP Calculus AB Exam in the Spring.

M433 – INTRODUCTION TO CALCULUS (2 credits)

This course is designed to prepare students for calculus at the college level. As such, it will focus on the analysis of polynomial, rational, trigonometric, exponential and logarithmic functions and apply these functions to real-life situations. Students will also explore limits and differentiation of these functions as an introduction to the basics of calculus.

M445 – AP COMPUTER SCIENCE PRINCIPALS (2 credits)

This course is a new Advanced Placement class. It offers a multidisciplinary approach to teaching the underlying principles of computation, and is not just a computer programming class. The course will introduce students to computer systems used in daily life, as well as the creative aspects of programming, using abstractions and algorithms, working with data sets, and understanding the Internet. It will also cover some issues of cybersecurity, and the impacts of computing that affect different populations. This course will give students the opportunity to use current technologies to solve problems and create meaningful computational artifacts. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science.

P150 – PHYSICAL EDUCATION I (1 credit)

This introductory course presents basic information about over-all fitness, specific types of strength conditioning, knowledge and skills needed for a variety of team based games. The students apply this knowledge through daily participation within an environment of safety and cooperation. Students are assessed on their conditioning progress, understanding of game rules and strategies, and positive daily participation.

P153 – HEALTH I (1 credit)

The role of the health class is critically important in helping students adjust and adapt to the challenges of adolescence. No single age group is more subject to avoidable / preventable health risks. The goal of the freshman health class is to provide an introductory course of study that meets the needs of today's teens by focusing on health issues from an adolescent perspective. Areas covered by this course include: physical fitness, nutrition, weight management, and personal care. Mental and emotional health issues such as self-esteem, stress management and depression are also a focus of the class. The class also discusses drug use, dependence and abuse issues. Key chapters cover the short-term and long-term health risks surrounding the use of: tobacco, alcohol and other illegal substances. Essentially, the course will emphasize the importance of achieving a balance of the five areas of health (physical, emotional, mental, social and spiritual).

P250 – PHYSICAL EDUCATION II (1 credit)

This sophomore course continues the individual conditioning and team games introduced during freshman year. The level of goal setting, degree of conditioning, understanding and execution of complex game strategies requires that the student be self-motivated and self-disciplined. The student is expected to take a more active role in creating an environment, which is safe, friendly and supportive of all students.

P253 – HEALTH II (1 credit)

Designed in cooperation with the religion, science and physical education departments, the health course is taught during one semester of the sophomore year. This course approaches health issues from both the immediate and lifelong perspective. The five major components of health (physical, social, mental, emotional and spiritual) are the focus of studies. A number of age-appropriate topics such as fitness, nutrition, weight management, personal care and appearance are covered. In addition, several serious teenage concerns (stress management, coping with loss, suicide prevention, drug abuse and the hazards of tobacco and alcohol use) are addressed. Peer and family relationships, violence and abuse are also key areas of study. In a pro-active manner, the class also examines several of the infectious and non-infectious diseases present in the world today. The goal of the health course is to help students adjust and adapt to the challenges of adolescence so that they may better avoid health risks, and achieve a high level of wellness in their lives.

P450 – STRENGTH & CONDITIONING (2 credits)

The Strength & Conditioning class will provide an opportunity for development of strength and cardio conditioning for various sports and fitness related activities. Emphasis is placed on anatomy, exercise physiology, nutrition, exercise technique, program design, and testing and evaluation. Class activity time will be spent utilizing free weights and other sport performance accessories to promote improvement in strength, endurance, balance, agility, and speed. An individualized plan to achieve one's fitness or sporting goals will be developed and implemented during this year long course.

Religion

R120 – THEOLOGY 9 (2 credits)

Semester I - God's Word Revealed in Sacred Scripture. The purpose of this course is to give the young people a 'general' appreciation of the Scriptures as the living word of God. Through their study of this course they will encounter the living Word of God, Jesus Christ. They will explore the Bible, authored by God through the inspiration of the Holy Spirit, become familiar with the sections of the Bible, and learn how to read the Bible. Particular attention will be given to the four accounts of the Gospel, through which they may grow to know and love Jesus Christ in a more personal way. Semester II - Who is Jesus Christ? The purpose of this course is to help the young people explore more deeply the mystery of Jesus Christ, the living Word of God and the Second Person of the Blessed Trinity. Through this course of study they will grow in their understanding that Jesus Christ is the ultimate Revelation of God. As they come to know more clearly who Jesus is, they will grow in their knowledge of who they themselves are and who they are called to be - what it truly means to be human.

R220 – THEOLOGY 10 (2 credits)

Semester I - The Paschal Mystery: Christ's Mission of Salvation. This course leads the students toward a deeper understanding of our need for redemption and how Jesus is the fulfillment of God's promise of redemption. The course explores how, through his suffering, death, Resurrection and Ascension, Jesus makes our redemption possible. The course also addresses how we continually experience the Paschal Mystery in our lives and the liturgy of the Church. It provides students with an extensive understanding of Christology. Semester II - The Church: Christ in the World Today. This course leads the students toward a deeper understanding of the Church as the means to encountering the living Jesus. The course explores the origin, the human and divine elements, and the ongoing mission of the Church. The students explore the Church's ongoing efforts to gather all into the People of God through the ecumenical movement and interreligious dialogue. The students reflect on their role in the Church and Christ's invitation to actively participate in and contribute to the life of the Church.

R320 – THEOLOGY 11 (2 credits)

The objective of this course is to introduce the moral reasoning process in the Christian life. To this end we explore the basics of the natural law, our human dignity and the law of love. We examine the sacraments and the life of grace as the immediate source of our ability to live the Christian life. Finally we look at contemporary moral issues through the lens of the teaching of the Catholic Church with an emphasis on

understanding and conscience formation. The course uses an academic discussion format and relies heavily on scripture and the Catechism of the Catholic Church.

R430 – THEOLOGY 12 (2 credits)

God has reached out to humanity with his revealed Word and it nourishes our walk of faith today. This course leads the students to examine the eternal truth and timeless beauty of the New Testament Bible. Our study takes a close look at the connection between the Old and New Testaments, the Catholic approach to Scripture, and person of Christ in the New Testament. We make a careful study of the four Gospels, the Acts of the Apostles, and the Epistles of St. Paul. A special emphasis is placed on the relevance and application of Scripture to life today. This course is designed to examine key principles of Christ centered Justice in our domestic and global communities. Special emphasis is placed on the seven principles of Catholic Social Teaching and the Corporal and Spiritual Works of Mercy articulated in Matthew 25. We study the lives of Catholic saints who offer us living examples of how Christian social justice is lived out daily. Numerous topics are addressed including the Gospel Call to identify the face of Christ in “the least ones”, hunger, human rights, homelessness, poverty, incarceration, and environmental justice.

Social Studies

S180 – WORLD HISTORY HONORS (2 credits)

This course offers an overall study of the development of mankind and civilization, including a study of modern political systems and ideas. It is a multimedia inquiry into those forces, which contributed to present-day civilization beginning with pre-history and ending with modern times. Special emphasis is placed on the relationships of different cultures and their contributions in shaping our own present-day civilization. In addition to the text, the student is required to read and evaluate various authors and historical works from different cultures and ages.

S181 – WORLD HISTORY (2 credits)

World History, a two-semester required course for first year students, includes a comprehensive review of the political, social, economic, cultural development of both western and non-western civilizations. Students will explore Asia, Africa, the Middle East, the Americas, China, Japan, Europe, India, and Southwest Asia in this survey course.

S382 – UNITED STATES HISTORY (2 credits)

United States History, a required two-semester course for third year students, introduces a detailed survey study of the history and government of the United States. The first semester explores the colonial development of the United States with special emphasis on the founding of the Republic, Founding Fathers, and the Civil War. The second semester emphasizes the development of the United States as a world power in the twentieth century and its subsequent leadership role in the world today. A comprehensive study of American political institutions completes the course. Students will use various learning methods and tools to develop their overall learning into their future.

They will be encouraged to participate in class discussions, as well as develop their note-taking skills, reading comprehension, and present projects relevant to the topic at hand. This is a standard junior-level Social Sciences course and is required for graduation.

S480 – CONTEMPORARY PROBLEMS (2 credits)

Contemporary Problems is a two-semester required course for fourth year students. A detailed study of American political institutions is introduced with emphasis on the Constitution and the federal system. In addition, this course includes a review of contemporary history (WWII - present) as well as an analysis of current developments.

S481 – CONTEMPORARY PROBLEMS HONORS (2 credits)

Contemporary Problems Honors is a social science course that is taught in conjunction with the Matteo Ricci College of Seattle University.

S484 – ADVANCED PLACEMENT UNITED STATES HISTORY (2 credits)

This course focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and an understanding of content learning objectives organized around seven themes, such as identity, peopling, and America in the world. In line with college and university U.S. history survey courses' increased focus on early and recent American history and decreased emphasis on other areas, the AP U.S. History course expands on the history of the Americas from 1491 to 1607 and from 1980 to the present. It also allows teachers flexibility across nine different periods of U.S. history to teach topics of their choice in depth.

S485 – PERSONAL FINANCE (1 credit)

Personal finance is often left out of the academic picture. Foundations in Personal Finance, a curriculum for high school students, covers the subject of personal finance through an engaging and age appropriate video series taught by Dave Ramsey. Dave Ramsey, a personal money management expert, is an extremely popular national radio personality, and author of the New York Times best-sellers *The Total Money Makeover*, *Financial Peace* and *More Than Enough*. Ramsey knows first-hand what financial peace means in his own life—living a true rags-to-riches-to-rags-to-riches story. By age 26, he had established a \$4 million real estate portfolio, only to lose it by age 30. He has since rebuilt his financial life and now devotes himself full-time to helping ordinary people understand the forces behind their financial distress and how to set things right. The mission of this course is to empower students to make sound financial decisions for life. The unique tools of this curriculum will effectively teach students the basics of personal finance. Using methods that are both entertaining and engaging, the curriculum provides the next generation a solid foundation on which they can build their financial future.

S488 – ADVANCED PLACEMENT UNITED STATES GOVERNMENT & POLITICS (2 credits)

The course involves the study of democratic ideas, balance of powers, and tension between the practical and ideal in national policymaking. Students analyze and discuss the importance of various constitutional principles, rights and procedures, institutions, and political processes that impact us as citizens.

S489 – CONFLICT IN THE 20th CENTURY & BEYOND (1 credit)

This one semester course will use a cross-disciplinary approach to examine the roots of conflict in the modern world. Beginning during the Imperialist Expansion of the United States and European nations in the late 19th century, through the breakup of the Empires following World War I, through our current conflicts around the globe, we will evaluate the domino effect of those earlier decisions and examine their affect our history today. Historical, economic, political, and especially cultural perspectives will be applied to theory and case studies to better understand why the twentieth century has been plagued with so many wars, revolutions, uprisings, and violent movements. Case studies will focus on Asia, Latin America, and Africa. Specific cases will include Vietnam, El Salvador, South Africa, Israel/Palestine, and Northern Ireland. Classwork will be discussion and research based, with use of novels to depict the experiences of particular conflicts with greatest emphasis on history. This is a Semester long Elective course. Students will need strong research and discussion skills, and an interest in history, culture, current events and social justice issues. Also, students should be prepared for individual reading assignments.

S490 – MODERN AMERICAN HISTORY or MODERN UNITED STATES HISTORY (1 credit)

This one-semester course will examine the both the foreign and domestic policies of the United States following World War II. Emphasis on domestic matters will be placed upon the civil rights movement, the counterculture, feminism, Watergate, the nuclear and space ages, and the economic developments during that time. The social changes in American will be discussed in detail as well as making connections to the student's current lives from these past actions of other. The course will also appraise the role of the United States as a world power in lieu of the Cold War, the Korean and Vietnam Wars, the Middle East, as well as the global economy. Course work will include, individual and class research and presentations, analysis of data, class discussion, as well as the students should be prepared to read and evaluate a novel. Students who have taken United States History during their 11th grade year will find this course most applicable; those who have taken US History Honors during their 11th grade year will find much of the information to be repetitive and are not encouraged to take this course.

S493 – ACCOUNTING (2 credits)

This two-semester course includes the full accounting cycle and guides students in developing the tools necessary to complete an accounting simulation set. Checks, invoices, receipts, purchase orders, memorandums and sales slips are used to familiarize students with forms and to show them how the forms are used in a business.

S497 – AMERICAN LEGAL SYSTEMS HONORS (2 credits)

This is a two component course focusing of the immersion of students into the American legal system. Students will study the history of the American legal system, from its humble beginnings, to its standard as the pre-eminent legal system of the western world. Students will also engage in a hands-on study and analysis of legal rules and opinions, including the rules of civil/criminal procedure, substantive statutes, and the rules of evidence. In addition each student will participate in the Washington State Mock Trial Competition, competing with other schools throughout the region for State and National Championships.

S498 – SPORTS AND ENTERTAINMENT MARKETING (1 credit)

The six core standards of marketing (Distribution, Marketing-Information Management, Pricing, Product/Service Management, Promotion and Selling) as well as the important topic of Pricing will be introduced in this one semester course. Successful sports and entertainment marketing strategies will be presented along with legal and ethical issues. Cyber marketing, marketing myths and people who have succeeded in sports and entertainment will be examined as well.