



TM

COURSE CATALOG

2023-2024

Updated 7/17/23

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GRADUATION REQUIREMENTS

To receive a diploma from St. John Bosco High School, a student must have:

1. A history of good character and citizenship
2. Participation in a grade level retreat during each year of attendance at SJBHS
3. Successful completion of the Senior Exit Interview
4. Satisfaction of all subject matter requirements

Subject Matter Graduation Requirements for the Classes of 2024-2026:

40 Credits Religion
40 Credits English
30 Credits Mathematics
30 Credits Science (Biology, Chemistry, 1 additional)
30 Credits Social Science (World History, US History, Civics/Econ OR Civics/Financial Lit OR AP Government)
20 Credits World Language (Must be 2 years from the same language)
10 Credits Visual and Performing Arts
10 Credits Physical Education
5 Credits Health
45 Credits Electives
Total: 260

Subject Matter Graduation Requirements for the Classes of 2027 and beyond:

40 Credits Religion
40 Credits English
30 Credits Mathematics
30 Credits Science (Biology, Chemistry, 1 additional)
30 Credits Social Science (World History, US History, Civics/Econ OR Civics/Financial Lit OR AP Government)
20 Credits World Language (Must be 2 years from the same language)
10 Credits Visual and Performing Arts
10 Credits Physical Education
5 Credits Health
5 Credits Financial Literacy
40 Credits Electives
Total: 260

NOTE: All F's must be remediated by the end of the summer in order for a student to matriculate in their subject matter graduation requirement sequence. A C or higher is required in the second semester of all math and world language courses in order to move on to the next level the following year.

ACADEMIC PATHWAYS

Since 1940, St. John Bosco High School has been committed to empowering students to achieve their fullest academic potential. In keeping with this mission, St. John Bosco has introduced new learning opportunities designed to enhance our already outstanding college preparatory curriculum. Through a series of Academic Pathways, students may choose a specific area of interest in which they will participate in advanced level coursework and project-based learning experiences over four years. Students must meet pathway requirements and complete an application process. See: [Academic Pathways](#)

BIOMEDICAL PATHWAY

The Biomedical Pathway is designed for students who excel in mathematics and natural sciences and are interested in the fields of biology or medicine. Students must possess well-developed academic skills, have a desire to engage in challenging course work, and aspire to pursue higher education, leading to a career in medicine or other related fields. In addition to rigorous classroom instruction in advanced math, health sciences, physical sciences, and chemical and biological sciences, students will gain considerable clinical knowledge through working with professionals in a hospital setting. Students will conduct independent research, participate in medical simulations, and attend lectures provided by physicians, research scientists, and other medical personnel.

COMPUTER SCIENCE PATHWAY

Computer Science empowers students to become creators, not just consumers of the technology that surrounds them.

The St. John Bosco Computer Science pathway students enjoy a rigorous curriculum and collaborative projects, develop deep computer science knowledge, gain essential skills such as problem-solving, critical and creative thinking, communication, collaboration, and perseverance, and leave Bosco with a path for success in today's technologically centered world. Students will learn a wide range of topics including coding, artificial intelligence, and app development.

ENGINEERING PATHWAY

The Engineering Pathway challenges students to create, design, build, discover, collaborate and solve problems. The curriculum requires students to engage in various activities, projects, and problem-based learning through hands-on classroom experiences.

STEM education programs, like the one offered by PLTW, engage students in activities, projects, and problem-based (APPB) learning, which provides hands-on classroom experiences. Students create, design, build, discover, collaborate and solve problems while applying what they learn in math and science. They're also exposed to STEM fields through professionals from local industries who supplement the real-world aspect of the curriculum through mentorships and workplace experiences.

ENTREPRENEURSHIP PATHWAY

This Ivy League inspired pathway is designed in collaboration with the Wharton School at the University of Pennsylvania for students interested in creating and leading business ventures. Social entrepreneurs are people or organizations that use economic and technological innovation to achieve social goals. They use entrepreneurial skills to create organizations that, instead of seeking profit, pursue a more just and humane society.

Students will be introduced to social entrepreneurship through case studies, key readings, and primary information resources. Students will become familiar with organizations and social entrepreneurs through service-learning projects, site visits, and will begin to develop skills demonstrated by successful social entrepreneurs, including team building and leadership, negotiation, and working in complex social and cultural environments.

FILM & MEDIA ARTS PATHWAY

The Film and Media Arts Pathway is a professional industry preparation program designed to prepare students for collegiate film

school. Through a project-based approach, students will learn the art of storytelling, production, design, directing, cinematography, animation, editing, and the business of the media industry. The Film and Media Arts Pathway's emphasis is on storytelling, while also infusing the importance of social responsibility in our curriculum, message, and mission.

SPORTS MEDICINE PATHWAY

The Sports Medicine pathway specializes in the knowledge, skills, practices, and theories encompassed in the health and safety of athletic individuals. Students will understand the various careers of healthcare professionals, including the team physician, athletic trainer, physical therapist, biomedical engineer, nutritionist and psychologist. This pathway is designed for students interested in fields such as athletic training, physical therapy, medicine, fitness, physiology of exercise, kinesiology, nutrition, and other sports medicine-related fields. Coursework content will include anatomy, physiology, kinesiology, hygiene, nutrition, taping, bracing, emergency procedure, conditioning, injury prevention, injury evaluation, rehabilitation, therapy, and field work observations.

SJB GLOBAL

One of the newest learning options we have for our students is taking online classes through SJB Global, our own online classes. These classes offer flexibility and an opportunity to help support student needs year round. We are offering online classes for both advancement and remediation. We have various enrollment and tuition options. See: [SJB Global](#)

Full time on campus students can select up to 1-2 online classes as a part of their regular tuition. Once a student chooses 3 or more online classes, this makes them a Flex student and they receive a tuition discount and preferred scheduling to meet their specific individualized needs.

Students must have a 2.5 GPA to select an online class for advancement and to be a Flex student.

All Freshmen take Health online.

Our Class List for 2023-2024:

Math: Algebra 1, Geometry*, Algebra 2*, Pre-Calculus*, Calculus*, Probability and Statistics, AP Calculus AB and BC, AP Statistics, AP Computer Science A

English: English 1*, 2*, 3*, 4*, AP English Language and Composition, AP English Literature and Composition

Social Science: World History, US History, Civics (Government), Economics, AP US History, AP US Government and Politics, AP Macroeconomics, Psychology, AP Psychology

Science: Biology*, Chemistry*, Physics*, Marine Science*, Anatomy and Physiology*, AP Biology, AP Environmental Science, AP Computer Science Principles

World Language: Spanish 1-4, French 1-3, American Sign Language 1-2, Chinese 1-AP Chinese

Religious Studies: 9th: The Revelation of Jesus Christ in Scripture/Who is Jesus?, 10th: The Mission of Jesus Christ - The Paschal Mystery/Ecclesiology, Sacraments, and Liturgy, 11th: Christian Morality and Ethics/World Religions, 12th: Christian Vocations/ Social Justice, Elective: Biblical and Christian Literature

Visual Performing Art: Animation 1-4, Music Appreciation, AP Art History

Electives/Other: Health, Financial Literacy, Personal Fitness, Independent Study PE, Digital Information Technology, Foundations of Programming

* Honors

Tuition: \$500 per semester - Core and elective classes
\$600 per semester - AP classes

How do our online classes work?

Our online courses are **asynchronous**. The student and teacher can work at any time of the day that works best for them; assignments are due by midnight in the student's own time zone.

Students should plan to spend **1-2 hours per lesson**. There are 40 lessons per semester. Students can take a class in an **8 week or 16 week format**—completing 5 lessons a week for 8 weeks or completing a lesson every other day for 16 weeks.

Most online classes consist of **lectures, assignments, assessments, discussion forums, and semester projects**, and this varies depending on the subject matter.

Students are supported by their online teacher who is available during an office hour on each lesson day. Teachers will answer questions by email or phone, supply personalized and individualized feedback on assignments in a timely manner, and send home a weekly snapshot of each student's overall performance with tips and suggestions. Students also have an Academic Advisor who checks their grades weekly and reaches out to students who need some extra support. They provide accountability, learning strategies, and time management skills to help students succeed.

Accredited and Approved Curriculum

Students receive credit from St. John Bosco High School, fully accredited by WASC and the WCEA. Core classes are all University of California and NCAA approved.

Contact Information: Diane Gihring, Director of SJB Global: dgihring@bosco.org

COMPUTER SCIENCE AND COMPUTER SCIENCE PATHWAY

On Campus/ (Online) Course Number	Title	Number of Credits	UC Approval and Category	Grade Level
(IT101-online only)	Digital Information Technology	10	"g"	9-12

Dive into an exciting elective course that will provide you with the foundational skills needed for exciting careers like game development, military defense, web design, and software engineering! You will explore Microsoft Office online applications, web design, emerging technologies, operating systems, project management, communication methods, Information Technology careers, and much more in this course. Learn about your strengths and how they relate to different career paths. *This course is not part of and does not lead to the Computer Science Pathway—it is an elective.*

(CO061-062-online only)	Foundations of Programming	10	"g"	9-12
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Learn the skills required to be competitive in today's high-tech workforce. This course covers the fundamentals of programming using the computer language Python. It provides you with the concepts, techniques, and processes associated with computer programming and software development. You'll also explore the vast programming career opportunities available in this high-demand field. This course is part of a program of study that provides coherent and rigorous content needed for progression in the Information Technology career cluster. *This course is not part of and does not lead to the Computer Science Pathway—it is an elective.*

CO100 (CO101-102-online)	Computer Science Essentials	10	"d"	9
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Computer Science Essentials introduces students to coding fundamentals through an approachable, block-based programming language where they will have early success in creating usable apps. As students sharpen their computational thinking skills, they will transition to programming environments that reinforce coding fundamentals by displaying block programming and text based programming side-by-side. Finally, students will learn the power of text-based programming as they are introduced to the Python® programming language. This is level 1 of the Computer Science Pathway. **STUDENTS MUST BE A MEMBER OF THE COMPUTER SCIENCE PATHWAY TO TAKE THIS COURSE.**

CO200 (CO201-202 -online)	AP Computer Science Principles	10	"d"	10-12
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Prerequisite: Algebra 1 AND A in a college prep science course OR A/B in an Honors or AP science course OR benchmark met on standardized testing. AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles also gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science. This is level 2 of the Computer Science Pathway. Both pathway and non-pathway students can take this course. **Note: All students enrolled in AP classes are required to take the AP exam given in May. Exams require a nonrefundable fee during the early part of the second semester.**

CO300	AP Computer	10	"c"	10-12
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(CO301-302-online)	Science A			
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Prerequisite: Algebra 2 AND A in a college prep math course OR A/B in an Honors or AP math course OR benchmark met on standardized testing . AP Computer Science A introduces students to computer science through programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language. This is level 3 of the Computer Science Pathway. Both pathway and non-pathway students can take this course. **Note: All students enrolled in AP classes are required to take the AP exam given in May. Exams require a nonrefundable fee during the early part of the second semester.**

CO400	Computer Science Capstone	10		12
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Prerequisite: C or better in AP Computer Science Principles and AP Computer Science A. Students will complete their Senior Year Capstone course using programming skills, content knowledge, and collaboration skills learned via their Computer Science Essentials course (9th grade), AP Computer Science Principles course (10th grade), and AP Computer Science A course (11th grade). The goal of this course is to innovate and create a functioning project in assistance with the SJB IT department. The first semester is aimed to learn how to identify a problem and use the engineering design process to build a solution. Students will practice with the device and accessories to gain a better understanding prior to designing their own capstone project. Students will then interview for a position at one of the available IT internship positions for various projects. The Vice President of Technology and the Computer Science Pathway coordinator will choose student's roles based upon interviews, skills, and project understanding. During the second semester, students will divide into groups and build a prototype de la sign to present to a panel of peers, faculty, and the Bosco Community. This is level 4 of the Computer Science Pathway. **STUDENTS MUST BE A MEMBER OF THE COMPUTER SCIENCE PATHWAY TO TAKE THIS COURSE.**

ENGLISH

On Campus/ (Online) Course Number/ And Honors	Title	Number of Credits	UC Approval and Category	Grade Level
EN100 (EN101-102-online) -EN105 (EN101H-102H-online)	English 1: World Literature and Composition 1 <i>College Prep or Honors</i>	10	"b"	9

No Prerequisite for standard college prep class.

Honors Prerequisite: Strong performance on the High School Placement Test (HSPT) This course is designed to introduce students to literature from various cultures, and to enhance and improve their writing abilities through various types of written assignments. Through these written assignments, projects, and various activities, students also develop research, listening, and speaking skills. The literature portion of the course reviews primary elements of literature and poetry, and examines the function of these elements within various literary works, while also incorporating relevant art, music, and philosophical ideas. In terms of writing, students will improve and develop their skills in writing narratives, multi-draft compositions, expository compositions, journals, and autobiographical compositions. This course provides a foundation for the English curriculum that students will encounter in their remaining years at St. John Bosco High School.

EN200 (EN201-202-online) -EN205 (EN201H-202H-online)	English 2: World Literature and Composition 2 <i>College Prep or Honors</i>	10	"b"	10
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Prerequisite: World Literature and Composition 1.

Honors Prerequisite: A in World Literature and Composition 1 OR A/B in World Literature and Composition 1 Honors OR benchmark met on standardized testing. This course continues to focus on multiculturalism as begun in the freshman year as well as on the multiplicity of social and historical issues addressed in the literature. Encompassed within the teaching of the various core novels, plays, short stories, and poetry is a concentration on writing and the writing process. Within the teaching of the writing process is the development of vocabulary including literary terms, grammar usage, and words from the literature itself. Also present is a continued focus on the development of speaking and listening skills with an emphasis on the use of visual aids and technological tools. Self-assessment continues to be an important focus of the course.

EN300 (EN301-302-online)	English 3: American Literature and Composition	10	"b"	11
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Prerequisite: World Literature and Composition 2 or Honors. American Literature and Composition refines and builds upon the basic skills presented in the ninth and tenth grades. The course's primary focus is a survey of American literature. As such, students will explore a variety of American themes that will not only enrich them as learners but mold them into more culturally aware citizens. Through oral and written expression, students analyze the evolution of the "American Dream" from a variety of perspectives—including their own—as they further hone their personal, analytical, and creative writing. Through this comprehensive study, students will learn to refine their writing processes for senior year and beyond, while also fostering a greater understanding of our shared cultural life and what it means to be an American.

EN320	The Intersection of Race and Cultural Diversity	10	"b"	11-12
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Prerequisite: World Literature and Composition 2 or Honors. Students will learn to recognize and/or deepen their knowledge of the influence of race, ethnicity, and cultural diversity on social institutions, ideology, law, and relationships through modern scholarship and literature. Race and ethnicity are ideological and cultural categories that include all people, and therefore this course will take a broad look at the creation and perpetuation of the ideology of race and cultural diversity. The primary focus is on the historical and social relationships among European Americans, African Americans, Latino/as, and Asian/Pacific Americans. Issues of race and ethnicity are examined across different ethno-cultural traditions in order to interweave diverse experiences into a larger synthesis of the meaning of race and ethnicity in American life. We will treat race and ethnicity as dynamic, complex ideological and cultural processes that shape all social institutions, belief systems, inter-group relationships, and individual experiences, and how authors express their experiences of those social apparatus through literature and popular culture mediums. Students can choose to take this course in place of their junior or senior year English.

EN3000 (EN3001-3002-online)	AP English Language and Composition	10	"b"	11
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Prerequisite: A in World Literature and Composition 2 OR A/B in World Literature and Composition 2 Honors OR benchmark met on standardized testing. AP Language and Composition aims to develop the critical reading and writing skills necessary to become better students and citizens. As such, the course hones and stimulates students' curiosity, creativity, and critical thinking. Students will learn how written expression functions rhetorically by being exposed to authors, movements, and ideologies that carry with them the lofty purpose of changing the hearts and minds of readers/listeners and, subsequently, society at large. Reading and analyzing nonfiction and fiction that transcends and shapes our world is necessary for students to mature beyond the skills that will be measured on the AP Exam. Composing responses to exam prompts is not the sole purpose of AP Language and Composition. Students will participate in considerable practice in reading a wide variety of literary and nonfiction texts in order to find out how others shape, shake, and shift the status quo. Familiarity with these texts will help students become informed and rhetorically competent writers who not only consider the views of others but use writing as a way to express their own responses to a world in flux. **Note: All students enrolled in AP classes are required to take the AP exam given in May. Exams require a nonrefundable fee during the early part of the second semester.**

EN400 (EN401-402-online)	English 4: British Literature and Composition	10	"b"	12
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Prerequisite: American Literature and Composition OR AP English Language and Composition OR The Intersection of Race and Cultural Diversity. This course continues to refine and develop those skills reintroduced and emphasized during the previous years. It surveys a core of British literature to serve as a summation and emphasis of all literary concepts from the ninth, tenth, and eleventh grades. The various activities develop students' research and writing skills, as well as their listening and speaking skills. The literature portion of the class introduces the students to canonical and contemporary British literature, incorporating relevant art, music, and philosophical ideas. This course does give a sense of finality to the scope and sequence of the English curriculum, yet it also fosters a life-long love of literature and learning.

EN4000	AP English	10	"b"	12
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(EN4001-4002-online)	Literature and Composition			
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Prerequisite: A in American Literature and Composition or The Intersection of Race and Cultural Diversity OR A/B in AP English Language OR benchmark met on standardized testing. An alternative for those seniors who meet the minimum requirements set by the department and who wish to challenge themselves with the taking of the AP exam in May of the senior year. The course emphasizes all aspects of the English language. All literature serves as a source as the students read through the genre of the literary world. Students in this course will be prepared to take the AP Exam in May with the possibility of receiving college credit and/or placement. **Note: All students enrolled in AP classes are required to take the AP exam given in May. Exams require a nonrefundable fee during the early part of the second semester.**

EN360	Journalism	10	"g"	11-12
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Prerequisite: World Literature and Composition 2 or Honors. In Journalism, students garner an appreciation for the art of fair and factual storytelling and the press' special role in American democratic life. In the tradition and spirit of the First Amendment, students examine and critique the practices and ethics of the American mass media, whose journalistic function serves as a vital "Fourth Estate" to national power. In addition to gaining a basic academic understanding of journalism in the United States, students write, publish, and edit stories for The Brave News, St. John Bosco's online student-run news outlet. Note: This is an elective, and does not count toward the 4-year English graduation requirement.

KINESIOLOGY AND PE

On Campus/(Online) Course Number	Title	Number of Credits	UC Approval and Category	Grade Level
(KN101-online only)	Health	5		9 (students in the classes of 2024 and 2025 may take at any grade level)

This course is ONLY offered online and is an 8 week semester class. This course is designed to bring comprehensive health awareness to the student. Taught from a Catholic perspective, the course will give students a foundation for understanding health as it relates to them spiritually, physically, emotionally, and socially/relationally. Students will work individually and cooperatively to explore, analyze, and solve health-related problems and issues. Positive lifelong health habits will be encouraged by the development of conceptual knowledge and practical skills. This course serves as a gateway class; students who pass this class with an A or a B may take other online classes in the future. **THIS COURSE MUST BE TAKEN BY ALL BOSCO STUDENTS, AND FOR THE CLASSES OF 2026 AND BEYOND, MUST BE COMPLETED BEFORE SOPHOMORE YEAR BEGINS.**

KN150	Physical Education	5		9-12
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This course will focus on students achieving and maintaining a level of physical fitness for health and performance while demonstrating knowledge of fitness concepts, and strategies. Students will establish personal fitness goals, using principles of aerobics, strength, and core training. Students will engage in vigorous activities daily, including participating in various sports for fun. This is a repeatable class.

(KN201-online only)	Personal Fitness	5		9-12
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This course is ONLY offered online. Aimed at lifelong fitness, this course guides students in strategies and techniques to make continual improvements in all areas of wellness. Students, with the guidance of a training instructor, set personal goals in four areas of wellness: physical, emotional, social, and academic. Fitness assessments enable students to establish baseline levels of fitness and work toward improvement in specific areas. At the end of each module, students submit a wellness plan documenting their daily physical activity, progress toward goals, changes in fitness assessment results, and reflections on personal progress.

The course uses videos, graphics, and interactive learning opportunities to encourage students to get out and be active. By following personalized training principles, students can gain confidence from personal success while they develop healthy habits that will last a lifetime.

(ND201-online only)	Independent Study PE	5 credit per semester		9-12
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This course is ONLY offered online for full time online students. Students log 50 hours of physical activity to earn 5 credits. Students must be in a situation where they are working with a trainer, coach, or physical therapist. This is a credit/no credit class.

KN110	Strength and Conditioning	5 credits per semester		9-12
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This course provides a framework of knowledge in athletic conditioning. It demonstrates an examination of exercise technique, program design, periodization, and the development of bio-motor abilities. Instruction methods for speed, agility, flexibility, plyometrics, and Olympic lifting are also included.

KN200	Advanced Strength and Conditioning	5 credits per semester		9-12
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This course builds upon the framework of knowledge in athletic conditioning from the Strength and Conditioning course. Students demonstrate an advanced methodology of exercise technique, program design, periodization, and the development of bio-motor abilities. Students must be members of a specific varsity team to enroll in this class, with approval from their coach.

SPORTS MEDICINE PATHWAY

On Campus/(Online) Course Number	Title	Number of Credits	UC Approval and Category	Grade Level
SM150	Sports Medicine 1: Introduction to Kinesiology/Sports Nutrition and Performance	10	"g"	9

Kinesiology is the study of human movement and the associated responses and adaptations. In this context, a kinesiologist must understand the scientific basis underlying exercise-induced biomechanical and physiological responses. Although kinesiology professionals often work in sports medicine facilities, the field of kinesiology is quite broad. Depending upon one's area of interest, a kinesiology major might study: (1) how to develop and lead exercise programs for diverse populations; (2) how organ systems work at the cellular level; or (3) how to improve biomechanical efficiency in tasks of everyday living.

In the second semester, the basic principles of human nutrition are investigated, emphasizing the nutrients, food sources, and their utilization in the body for growth and health throughout life. This course also assesses contemporary nutrition issues. Students will also study functions, digestion/absorption, interrelationships, cellular metabolism of the macronutrients; determination of nutrient requirements, assessment of nutritional status, fluid balance and acid base balance during health exercise. NOTE: This semester of Sports Medicine covers the Health graduation requirement through the 22-23 school year. **STUDENTS MUST BE A MEMBER OF THE SPORTS MEDICINE PATHWAY TO TAKE THIS COURSE.**

SM250	Sports Medicine 2: Introduction to Sports Medicine/Sports Anatomy and Movement	10		10
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Prerequisite: C or better in Sports Medicine 1. Sports Medicine is a program designed for students interested in fields such as athletic training, physical therapy, medicine, fitness, physiology of exercise, kinesiology, nutrition, and other sports medicine related fields. The program includes class work and practical hands-on application. This class will introduce basic skills to include: anatomy, physiology, kinesiology, hygiene, nutrition, taping, bracing, emergency procedure, conditioning, injury prevention, injury evaluation, rehabilitative procedures and incorporate practice and game observations.

This course is designed to understand the movement in the muscular and skeletal systems. Information involving the structure and function of the human body is discussed in lecture and the laboratory. Anatomy and Physiology is designed to help meet the needs of students preparing for their field work practicum. This course builds upon the previous Sports Medicine coursework and outlines the major muscular and skeletal functions used in the fourteen sport offerings in the school as well as the major injuries associated. **STUDENTS MUST BE A MEMBER OF THE SPORTS MEDICINE PATHWAY TO TAKE THIS COURSE.**

SM350	Sports Medicine 3: Lower/Upper Body Injury Evaluation and Rehabilitation	10	"g"	11
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Prerequisite: C or better in Sports Medicine 2. This course allows the student to expand upon the knowledge of the mechanism,

assessment, and reconditioning of athletic lower and upper body injuries. Emphasis is placed upon injury mechanism and assessment, the phases of healing, modalities used in the healing process, and the application of exercise and the exercise equipment used in the reconditioning of athletic injuries. **STUDENTS MUST BE A MEMBER OF THE SPORTS MEDICINE PATHWAY TO TAKE THIS COURSE.**

SM450	Sports Medicine 4: Advanced Sports Medicine (Field Work)	10		12
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Prerequisite: C or better in Sports Medicine 3. Advanced Sports Medicine is designed for students to assist in the fields of Athletic Training, Physical Therapy, Occupational Therapy, Sports Performance Clinic, Chiropractors, and Rehabilitation on and off campus under the supervision of a professional. **STUDENTS MUST BE A MEMBER OF THE SPORTS MEDICINE PATHWAY TO TAKE THIS COURSE.**

MATHEMATICS

On Campus/(Online) Course Number/ And Honors	Title	Number of Credits	UC Approval and Category	Grade Level
MA100 (MA101-102-online)	Algebra 1	10	"C"	9

This is a course in elementary algebra for the average and above average student. The subject covers an in-depth study of the topics of number, linear equations and inequalities of one and two variables, polynomials and polynomial equations, and problem solving.

MA200 (MA201-202-online) MA205 (MA201H-202H-online)	Geometry <i>College Prep or Honors</i>	10	"C"	9-10
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Prerequisite for college prep: (1) Algebra 1 OR (2) HSPT Score between 6 and 8 and a Geometry Readiness Score of 70% or better. A course in Euclidean Geometry for the average to above average student. It provides a careful in depth study of the principles of geometry covering the topics of: parallel lines, congruency, similarity, polygons, circles, constructions, area, volume, and coordinate geometry.

Prerequisite for Honors: (1) A in Algebra 1 or benchmark met on standardized testing OR (2) Stanine score of 7-9 on the High School Placement Test and Geometry Readiness score of 90% or better. The Honors Geometry course is a comprehensive look at the study of geometric concepts including the basic elements of geometry, proofs, parallel and perpendicular lines, the coordinate plane, triangles, quadrilaterals, polygons, circles, trigonometry, congruence and similarity, surface area, volume and transformations. This class will also include a look into some Algebra concepts as well as a study of conics.

MA300 (MA301-302-online)	Algebra 2	10	"C"	9-11
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Prerequisite: (1) Geometry or Honors Geometry OR (2) HSPT Score between 4 and 9 and a Second Year Algebra Readiness Score of 70% or better. A continuation of the study of algebra for the average and above average student with a detailed focus on its structure. The topics covered will include: number, linear systems, polynomial equations, relations, functions conic sections, exponential and logarithmic functions, sequences, series and the counting principle.

MA305 (MA301H-302H-online)	Algebra 2 with Trigonometry Honors	10	"C"	9-11
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Prerequisite: A in Geometry OR A/B in Geometry Honors. This course is designed for the above average student in mathematics. It is a preparation for the study of Precalculus Honors. It covers all of the major topics of Algebra 2 along with a full course of Trigonometry.

MA450	Elementary Statistics	10	"c"	10-12
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Prerequisite on campus: Algebra 2 or Algebra 2 with Trig Honors. An overview of the science of statistical estimation with a focus on a basic understanding of fundamental statistical measures, methods of quantifying and classifying data, current applications, and interpretation of the validity of statistical inference.

(MA451-452-online only)	Probability and Statistics	10	"c"	11-12
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Prerequisite: Algebra 2 or Algebra 2 with Trig Honors. This course is ONLY offered online. Probability and Statistics will introduce students to exploring data, sampling and experimentation by planning and conducting studies, anticipating patterns using probability and simulation, and employing statistical inference to analyze data and draw conclusions.

MA460 (MA461-462-online) MA465 (MA461H-462H-online)	Precalculus <i>College Prep or Honors</i>	10	"c"	10-12
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Prerequisite for Regular : Algebra 2 or Algebra 2 with Trigonometry Honors This is a course for the above average student in mathematics. The course provides a study of advanced algebra, trigonometry and an introduction to differential and integral calculus. It is a preparation for a comprehensive study of calculus.

Prerequisite for Honors: A in Algebra 2 OR A/B in Algebra 2 with Trigonometry Honors OR benchmark met on standardized testing. A course designed for the superior student in mathematics. It is a preparation for the study of AP Calculus (BC). The course will review and enhance the study of: elementary functions, graphing, modeling, exponential and logarithmic functions and trigonometry, limits, continuity and will then cover the major concepts and applications of differential calculus and an introduction to integral calculus.

MA470 (MA471-online)	Financial Literacy	5	"g"	9-12
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This is a one semester class. Financial Literacy is a college-preparatory, applied-mathematics course integrated with key math content standards. The innovative finance curriculum utilizes mathematics to teach key life skills; students learn to think critically and plan for the long-term. The curriculum covers the importance of saving, strategies for generating and protecting greater wealth, as well as fundamental career skills including negotiations and professionalism. Designed and implemented by the University of Pennsylvania Wharton School of Business faculty, the curriculum is designed to provide students with access to greater future wealth. **NOTE: This class will be a graduation requirement for the graduating class of 2027 and beyond.**

(MA401-402-online only) (MA401H-402H-online only)	Calculus <i>College Prep or Honors</i>	10	"c" pending approval	10-12
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Prerequisite: Precalculus or Honors. This course is ONLY offered online. Students in this course will walk in the footsteps of Newton and Leibnitz. An interactive course framework combines with the exciting online course delivery to make calculus an adventure. The course includes a study of limits, continuity, differentiation, and integration of algebraic, trigonometric, and transcendental functions, and the applications of derivatives and integrals.

MA4500 (MA4501-4502-online)	AP Calculus AB	10	"C"	10-12
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Prerequisite: A in Precalculus OR A/B in Precalculus Honors OR benchmark met on standardized testing. This is a course for the superior mathematics student. It is a full-year college course in the theory, application and problem solving of the differential and integral calculus restricted to one variable. Students in this course will be prepared to take the AP Exam in May with the possibility of receiving college credit and/or placement. **Note: All students enrolled in AP classes are required to take the AP exam given in May. Exams require a nonrefundable fee during the early part of the second semester.**

MA4600 (MA4601-4602-online)	AP Calculus BC	10	"C"	11-12
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Prerequisite: A/B in AP Calculus AB OR benchmark met on standardized testing. This course is a continuation of the Calculus series. It is a very rigorous course with differential and integral calculus extended to vectors, parametric equations, sequence, series and differential equations. Students in this course will be prepared to take the AP Exam in May with the possibility of receiving college credit and/or placement. **Note: All students enrolled in AP classes are required to take the AP exam given in May. Exams require a nonrefundable fee during the early part of the second semester.**

MA4700 (MA4701-4702-online)	AP Statistics	10	"C"	10-12
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Prerequisite: A in Algebra 2 OR A/B in Algebra 2 with Trigonometry Honors OR benchmark met on standardized testing. The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes: (1) Exploring Data: Describing patterns and departures from patterns; (2) Sampling and Experimentation: Planning and conducting a study; (3) Anticipating Patterns: Exploring random phenomena using probability and simulation; and (4) Statistical Inference: Estimating population parameters and testing hypotheses. Students in this course will be prepared to take the AP Exam in May with the possibility of receiving college credit and/or placement. **Note: All students enrolled in AP classes are required to take the AP exam given in May. Exams require a nonrefundable fee during the early part of the second semester.**

THEOLOGY

On Campus/(Online) Course Number	Title	Number of Credits	UC Approval and Category	Grade Level
RS100 (RS101-102-online)	9 A: The Revelation of Jesus Christ in Scripture (S-1) 9 B: Who is Jesus Christ? [Christology I] (S-2)	5 per semester		9

The purpose of these two semester courses is to give students a general knowledge and appreciation of the Sacred Scriptures. Through their study of the Bible they will come to encounter the living Word of God, Jesus Christ. In these courses they will learn about the Bible, authored by God through Inspiration, and its value to people throughout the world. If they have not been taught this earlier, they will learn how to read the Bible, and will become familiar with the major sections of the Bible and the books included in each section.

9 A: The Revelation of Jesus Christ in Scripture (S-1) In the first semester course, students will study the major sections of the Hebrew Scriptures, including the Pentateuch, the Historical books, the Prophets, and Wisdom literature. Particular attention will be given to the types and prophecies of Jesus in the Hebrew Scriptures

9 B: Who is Jesus Christ? [Christology I] (S-2) The second semester course introduces students to the Mystery of Jesus Christ, the Living Word of God, and the second Person of the Blessed Trinity. In this course students will understand that Jesus Christ is the ultimate revelation to us from God. In learning about who he is, the students will also learn who he calls them to be. In this second semester course, students will focus on the Gospels and the other sections of the New Testament.

RS500	9: Introduction to Catholicism and Western Culture & Language	10		9-12
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Prerequisite: Recommendation by school counselor. The purpose of this course is to integrate academic English instruction into an overview of the essential concepts of Christianity. By the end of the course, you will have a foundational understanding of the major stories and characters of the Old and New Testaments, as well as knowledge of the key components of the Catholic faith. In addition, you will have expanded your academic vocabulary, grammatical knowledge, and essay composition skills.

RS200 (RS201-202-online)	10 A: The Mission of Jesus Christ - The Paschal Mystery [Christology II] (S-I) 10 B: Ecclesiology and Sacraments, (S-2)	5 per semester		10
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Prerequisite: The Revelation of Jesus Christ in Scripture/Who is Jesus Christ? [Christology I].

10 A: The Mission of Jesus Christ - The Paschal Mystery [Christology II] (S-I) The purpose of this course is to help students understand all the God has done for us through his Son, Jesus Christ. Through this course of study, students will learn that for all eternity, God has planned for us to share eternal happiness with him, which is accomplished through the Redemption Christ won for us. Students will learn that they share in this Redemption only in and through Jesus Christ. They will also be introduced to what it means to be a disciple of Christ and what life as a disciple entails.

10 B: Ecclesiology and Sacraments, (S-2) The second semester helps students understand that in and through the Church they encounter the Living Jesus Christ. They will be introduced to the fact that the Church was founded by Christ through the Apostles and is sustained by him through the Holy Spirit. The students will come to know that the Church is the living Body of Christ today. This Body has both Divine and human elements. In this course, students will learn not so much about events in the life of the Church, but about the sacred nature of the Church. Students will also understand that they can encounter Christ today in a full and real way in and through the Sacraments, and especially through the Eucharist. Students will examine each of the Sacraments in detail so as to learn how they may encounter Christ throughout life.

RS300 (RS301-302-online)	11 A: Life in Jesus Christ [Christian Morality and Ethics] (S-I) 11 B: World Religions (S-2)	5 per semester	World Religions is "g"	11
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Prerequisite: The Mission of Jesus Christ (The Paschal Mystery) and (Christology II)/Ecclesiology, Sacraments, and Liturgy.

11 A: Life in Jesus Christ [Christian Morality and Ethics] (S-I) The purpose of this course is to help students understand the Catholic belief that it is through Christ that they can fully live out God's plans for their lives. The purpose of this course is the exploration of Christian moral principles, concepts, and precepts based on Catholic Christian Scripture and Tradition which are central to the on-going formation of one's life as a "Good Christian and Honest Citizen."

11 B: World Religions (S-2) The second semester course World Religions (a University of California approved course) helps students to understand the manner in which the Catholic Church relates to non-Catholic Christians and to other religions of the world. Building on the foundational truth that Jesus Christ established the Catholic Church and entrusted to her the fullness of God's Revelation, the course is intended to help students to recognize the ways in which important spiritual truths can also be found in non-Catholic Christian churches and ecclesial communities as well as in non-Christian religions in the spirit of Vatican II. The course will include an introduction to the concept of religion in general, an analysis of the the important Vatican II document on the Catholic Church's relationship to non-Christian religions, *Nostra Aetate*, and then will examine the major eastern religions: Hinduism and Buddhism, as well as the western-monotheistic (Abrahamic) religions of Judaism and Islam.

RS400 (RS401-online)	12 A: Christian Vocations	5		12
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12 A: Christian Vocations (S-1)

Prerequisite: **Life in Jesus Christ (Morality and Ethics)/World Religions.** This one semester course offers students opportunities to begin to apply what they have come to believe as their vocation as a Christian. The course is designed to be a “practical discipleship” for young men living in the United States in the 21st century. Through the reflection on real life choices, students are able to begin to prayerfully reflect on their personal gifts and unique call by God. Special attention will be given to surveying the various life vocations within the Church: single life, married life, religious life and priestly life. The goal of the course is to help students understand and have some methods of coping with the opportunities, challenges, and developmental tasks facing young adults today.

RS430 (RS431-online)	12 B: Catholic Social Teaching	5	“g”	12
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12 A: Catholic Social Teaching (S-12)

Prerequisite: **Life in Jesus Christ (Morality and Ethics)/World Religions.** This one semester course is designed to introduce students to Catholic social teaching to assist them in discovering their ability to create positive change in their own world. Students will critically analyze various aspects of justice that find their root in Biblical and Catholic social teachings. Students will also explore and discuss how these concepts influence human understanding, relationships, and behavior for centuries. Students will understand how individuals operate within community contexts created through interactions and relationships structured by sociability, belonging, and responsibility. This course will encourage students to think critically and expansively about the social world and the conditions of humanity. Social justice will provide a foundation for students to explore social justice concepts, issues, and remedies, thereby developing the necessary analytical tools and information to see inequality and injustice and address historical and contemporary issues relevant to students’ present day lives.

RS440	12 C: Faith in Film, Media, and Literature	5	“g”	10-12
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Prerequisite: **Composition/World Literature 1 or Honors.** This one semester elective course, open to 10th-12th graders, explores how the experience of Christian faith is manifested explicitly and implicitly in movies, media and literature. Students will explore selected productions of cinematography, other media, and literature to examine their theological and Christological significance.

RS050 (RS051-online)	12 D: Christian and Biblical Literature	5		10-12
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Through this one semester elective course, students will examine selected literature from the Judeo-Christian Bible as well as other genres of Christian-themed literature including short stories and sections of a novel. Students will encounter these texts through critical reading, plot and character analysis, and theological reflection, therefore elucidating perennial wisdom and meaning for life experiences from religiously-themed literature studied.

SCIENCE

On Campus/(Online) Course Number/ And Honors	Title	Number of Credits	UC Approval and Category	Grade Level
SC100 (SC101-102-online) SC105 (SC101H-102H-online)	Biology <i>College Prep or Honors</i>	10	"d"	9

This college preparatory course utilizes lecture, film, laboratory activity, field excursions, and individualized study. It is an in depth analysis of cellular structure and function, human anatomy, plant physiology and anatomy, ecological interactions, evolution, and the multiple kingdoms. Students will be challenged to engage in critical thinking, collaboration, and analysis to develop solutions and results to problems.

Prerequisite for Honors: Strong performance on the HSPT. This course presents an in-depth, detailed, fast-paced and comprehensive sequence of the fundamental concepts in Biology including (but not limited to): molecular and cellular biology; genetics; evolution; animal and plant diversity; animal and plant anatomy/physiology; and behavioral biology. Additionally, the lab component of this course introduces proper techniques and procedures in conjunction with various labs such as: dissections, microscopes, fieldwork, and real-world applications of biology. Both the lecture and lab components emphasize critical thinking, and self-motivated, independent research and learning.

SC200 (SC201-202-online)	Environmental Science	10	"d"	10-12
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Prerequisite: Biology or Honors. Environmental Science introduces students to the biological and physical systems of Earth. The course is a lab-based class designed to inquire and investigate the workings of Earth's many natural systems as well as how these systems are impacted and affected by human activity. Environmental Science is an unusual academic discipline in that it requires scientific knowledge about the natural world, as well as an understanding about ways in which humans interact with the natural world. We examine the effects of human actions on the environment, and the means by which policies, regulations, and decisions influence human actions. We also examine human behavioral, cultural, and sociological interactions that affect the environment. Students will explore and design solutions to develop sustainable systems of Earth's many resources. An emphasis will be placed on making informed and ethical decisions concerning environmental issues in today's world.

SC210 (SC211-212-online) SC215 (SC211H-212H-online)	Chemistry and Lab <i>College Prep or Honors</i>	10	"d"	10-11
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Prerequisite for college prep: Biology or Honors. This college preparatory course covers eleven major conceptual sections. These include: classification and properties of matter, atomic theory, structure, and electron arrangements, quantitative composition of compounds, types of chemical reactions and stoichiometric analysis, types of chemical bonds and molecular shapes, the Kinetic Molecular Theory of Gases, solution concentrations and pH, acids and bases, oxidation and reduction, and an introduction to organic chemistry.

Prerequisite for Honors: (1) A in Biology OR A/B in Biology Honors OR benchmark met on standardized testing AND (2) Geometry, can be concurrent. Chemistry Honors is a year-long college preparatory course designed for the motivated student. The major conceptual sections covered in this course are: classification and properties of matter, atomic theory, structure, and electron

arrangements, qualitative composition of compounds, types of chemical reactions and stoichiometric analysis, types of chemical bonds and molecular shapes, the Kinetic Molecular Theory of Gases, solution concentrations and pH, acids and bases, oxidation and reduction, and an introduction to both organic chemistry and biochemistry. Students will gain knowledge that will be supplemented with hands-on labs and completion of lab reports. The laboratory component comprises approximately 20% of this course.

SC350 (SC351-352-online) (SC351H-352H-online only)	Anatomy and Physiology <i>College Prep or Honors</i>	10	"d"	11-12
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Prerequisite: Chemistry and Lab.

Prerequisite for Honors: A in Chemistry OR A/B in Chemistry Honors OR benchmark met on standardized testing.

This course provides students with the fundamental concepts of Anatomy and Physiology. The structures and functions of the human body are explored thoroughly in the laboratory and through interactive discussions. Students use critical thinking to solve clinical problems based on health issues of the human body. Anatomy and Physiology is designed to help meet the needs of students preparing for higher education and provide a more in-depth personal understanding of health and fitness. Students make connections between the skeletal, muscular, nervous, digestive, respiratory, circulatory, excretory, and reproductive systems. Students will utilize the technology of the Anatomage Table to visualize cadavers and access the virtual library as a clinical diagnostic tool to evaluate patients. Note: The honors version of this course is only offered online for students who are not in the Biomedical Science Pathway.

SC360 (SC361-362-online)	Physics and Lab	10	"d"	11-12
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Prerequisite: Chemistry. This college preparatory course utilizes lecture, laboratory and project activities to provide a conceptual and mathematical approach to understanding Physics. Major topics include motion, forces, vectors; static equilibrium; work, energy and momentum; kinetic theory, astrophysics, heat, thermodynamics; vibrations, simple harmonic motion, waves, sound; electricity and magnetism; and light and optics. Problem solving / critical thinking skills are fundamental to the course.

SC370	Agricultural Science	5	"d"	11-12
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Prerequisite: Chemistry. This semester-long course is designed for students to study the structure of plants, growth processes, propagation, physiology, classification, reproduction, soil, pests, and harvesting practices. The students in the class will work in gardens, planting, harvesting and selling to local markets. It is intended to successfully prepare students who want to pursue a career in the area of agriculture and/or plan on majoring in agriculture sciences at a four-year college. This class is paired with Astronomy.

SC380	Astronomy	5	"g"	11-12
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Prerequisite: Chemistry. In this one semester class, topics include discussing the Earth's role and place in the universe, followed by expanding to the planets of the solar system, and beyond to the Milky Way Galaxy. Students will learn about the basics of space travel, and the recent technology used to explore out into the universe. Course conclusion will include exploring the farthest parts of the universe and debating the wonders of what may occur in the future. Short labs/activities will be part of the class. These labs will include fundamental physics and math concepts to understand distance of objects, light speed, gravity, wavelengths, and temperature. Class may also include, with permission, scheduled night time star gazing events with telescopes. This class is paired with Agricultural Science.

(SC391-392-online only) (SC391H-392H-online only)	Marine Science <i>College Prep or Honors</i>	10	"g" for College Prep	11-12
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Prerequisite: Chemistry.

Prerequisite for Honors: A in Chemistry OR A/B in Chemistry Honors OR benchmark met on standardized testing.

Since the beginning of time, humans have relied on the ocean. But as our planet continues to change over time, human activity has impacted the environment. In the marine science course, students will explore the watery depths of our own planet and understand just how vital the ocean is to our existence.

Throughout the course, students will meet marine animals and see how they interact with each other and their environment. They will tour the evolving seafloor and see trenches, volcanoes, and ridges, just to name a few. Along the way, students will hang ten as they discover waves, currents, tides, and other physical interactions between the ocean and the land. Finally, students will study the impacts of chemical processes on our blue planet and how they affect the water, the atmosphere, and even our climate. With a focus on conservation, this course will show students that the ocean connects us all, across distance and even time. Hang on—it's going to be an amazing journey. Note: These courses are only offered online.

SC3500 (SC3501-3502-online)	AP Biology	10	"d"	11-12
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Prerequisite: A in Chemistry OR A/B in Chemistry Honors OR benchmark met on standardized testing. This college level course utilizes lecture and laboratory activity to prepare the student for the Advanced Placement Examination following the College Board design. Students will utilize logical reasoning, critical thinking, written and oral communication, and mathematical applications when problem solving. Through the development of these problem-solving strategies, students will become better prepared for careers in medical, engineering, and other areas of natural science. Students will gain a greater, and much more in depth perspective and understanding in concepts covered in general Biology including: cellular structure and function, cell reproduction, DNA structure and function, ecological interactions, evolution, and genetics. Students in this course will be prepared to take the AP Exam in May with the possibility of receiving college credit and/or placement. **Note: All students enrolled in AP classes are required to take the AP exam given in May. Exams require a nonrefundable fee during the early part of the second semester.**

SC3600	AP Chemistry	10	"d"	11-12
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Prerequisite: (1) A in Chemistry OR A/B in Chemistry Honors OR benchmark met on standardized testing AND (2) A in Algebra 2 OR A/B in Algebra 2 with Trig Honors OR benchmark met on standardized testing. This year-long Advanced Placement course is an extensive, in-depth analysis of the following areas of Chemistry; fundamental particles or matter, the mole concept and its relationships in chemical reactions, gases, thermochemistry, atomic structure, basic and advanced concepts in chemical bonding, chemical forces and states of matter, and chemical kinetics and equilibrium. All concepts are introduced and reinforced through lectures as well as laboratory experimentation. The emphasis throughout the year is to prepare the student for the rigors of college chemistry through expanding their mastery of chemistry principles, to enhance their laboratory experimentation skills and data analysis, and to facilitate their success on the advanced placement examination following the College Board design. Students in this course will be prepared to take the AP Exam in May with the possibility of receiving college credit and/or placement. **Note: All students enrolled in AP classes are required to take the AP exam given in May. Exams require a nonrefundable fee during the early part of the second semester.**

SC3600 (SC3601-3602-online)	AP Environmental Science	10	"d"	11-12
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Prerequisite: A in Chemistry OR A/B in Chemistry Honors OR benchmark met on standardized testing.

The AP Environmental Science course is the equivalent of a one-semester, introductory college course in environmental science, through which students engage with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography. Students in this course will be prepared to take the AP Exam in May with the possibility of receiving college credit and/or placement. **Note: All students enrolled in AP classes are required to take the AP exam given in May. Exams require a nonrefundable fee during the early part of the second semester.**

SC4500	AP Physics 1	10	"d"	11-12
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Prerequisite: (1) A in Algebra 2 OR A/B in Algebra 2 with Trig Honors or benchmark met on standardized testing AND (2) A in Chemistry OR A/B in Chemistry Honors OR benchmark met on standardized testing. AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore these topics: kinematics; dynamics; circular motion and gravitation; energy; momentum; simple harmonic motion; torque and rotational motion; electric charge and electric force; DC circuits; and mechanical waves and sound. Students in this course will be prepared to take the AP Exam in May with the possibility of receiving college credit and/or placement. **Note: All students enrolled in AP classes are required to take the AP exam given in May. Exams require a nonrefundable fee during the early part of the second semester.**

SC4600	AP Physics 2	10	"d"	12
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Prerequisite: A/B in AP Physics 1 OR benchmark met on standardized testing. AP Physics 2 is an algebra-based introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore these topics: fluids; thermodynamics; electric force, field and potential; electric circuits; magnetism and electromagnetic induction; geometric and physical optics; and quantum, atomic, and nuclear physics. Students in this course will be prepared to take the AP Exam in May with the possibility of receiving college credit and/or placement. **Note: All students enrolled in AP classes are required to take the AP exam given in May. Exams require a nonrefundable fee during the early part of the second semester.**

BIOMEDICAL SCIENCE PATHWAY

On Campus/(Online) Course Number	Title	Number of Credits	UC Approval and Category	Grade Level
BS150	Biomedical Science 1A: Introduction to Health and Science Technology	5	"g"	9

Prerequisite: Must be concurrently enrolled in Biology Honors.

In the fall semester, this course covers the therapeutic, diagnostic, environmental, and information systems of the healthcare industry. The course focuses on health careers, exploration, leadership development, ethical and legal responsibilities, the history of health care, and the economics of health care. IHST integrates anatomy and physiology, body systems and their respective diseases and disorders, care and treatment modalities, and medical terminology. Clinical and patient care skills are acquired, and the development of professionalism serves as a guiding principle to prepare students for work in the clinical setting. **STUDENTS MUST BE A MEMBER OF THE BIOMEDICAL SCIENCE PATHWAY TO TAKE THIS COURSE.**

BS160	Biomedical Science 1B: Medical Ethics	5	"g"	9
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Prerequisite: Must be concurrently enrolled in Biology Honors.

In the spring semester, this course examines ethics as practiced in the health care setting. ***The case studies and course curriculum are based on Catholic doctrine.*** This course develops philosophical knowledge centered on ethical awareness, ethical knowledge, and skills. Students will be introduced to several traditional moral theories, and will explore ethical cases within the health-care setting. This course will progress through a variety of ethical challenges that health professionals face throughout their careers. Topics may include: euthanasia, modern fertility interventions, treatment of impaired newborns, mental illness, use of animals in research, professional ethical codes, scarce resources, genetic engineering, inter-cultural issues, economics (ability to pay) and many other dilemmas that occur when practicing in health care. **STUDENTS MUST BE A MEMBER OF THE BIOMEDICAL SCIENCE PATHWAY TO TAKE THIS COURSE.**

BS255	Biomedical Science 2: Cell and Molecular Biology Honors	10	"d"	10
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Prerequisite: C or better in Biomedical Science 1. The course is an interdisciplinary course that bridges the fields of Chemistry, Biochemistry, Biology, Genetics, and Bio-Physics. It is a survey of the cell, as the fundamental structural and functional credit of life. The mechanisms of differentiation and coordinated activities, which form the molecular basis of cellular processes and interrelationships in eukaryotic systems, shall be analyzed. Molecular Pathology, the study of molecules in a disease state, shall be emphasized throughout the course as a means to diagnose, prevent, and treat disease. **STUDENTS MUST BE A MEMBER OF THE BIOMEDICAL SCIENCE PATHWAY TO TAKE THIS COURSE.**

BS3505	Biomedical Science 3: Anatomy and Physiology Honors	10	"d"	11
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Prerequisite: C or better in Biomedical Science 2. This course studies the interrelationship of structure and function within and between human organ systems in terms of structure and function along with systemic relationships focusing on the issues, integumentary, skeletal, muscular, nervous and endocrine systems. Case studies will be a supplementary key to integrating knowledge through application. Laboratory work will be required, including anatomy dissection of rat, cat, cow eye, sheep brain, pig heart and kidney. **STUDENTS MUST BE A MEMBER OF THE BIOMEDICAL SCIENCE PATHWAY TO TAKE THIS COURSE.**

BS450	Biomedical Science 4 A: Medical Genetics	5	"g"	12
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Prerequisite: C or better in Biomedical Science 3. A survey of conditions that are implicated by hereditary factors which involve different genetic mechanisms such as; single and multifactorial gene disorders, chromosomal abnormalities, polygenic inheritance, and acquired somatic genetic disease. Emphasis will be placed on the impact of genetic disease in the 20th century, as well as developments in the molecular technology industry in genetic advancement. The course will examine mechanisms of diagnosis of genetic disease at the chromosomal and molecular level, in addition to prospects for treatment using drug and gene therapy. **STUDENTS MUST BE A MEMBER OF THE BIOMEDICAL SCIENCE PATHWAY TO TAKE THIS COURSE.**

BS450X	Biomedical Science 4 B: Biomedical Scholar Internship	5		12
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Prerequisite: C or better in Biomedical Science 3. Students will gain clinical and research experience as active members of genetics research teams, as well as health-care cohorts, through which they will work at medical and genetics research sites. Responsibilities include providing basic care for patients, as well as performing research in genetics-based medical science. At the medical sites, patients are assisted in a range of tasks such as walking, feeding, monitoring vital signs, and much more. Student interns will engage in administrative and clinical rotations, in a variety of areas at the program site, or will conduct cellular or molecular research in a field specialized in human biology. The completion of 135 hours of clinical work performed at an approved medical site or biological sciences research laboratories are required. Hours are to be completed June 1st through March 1st. **STUDENTS MUST BE A MEMBER OF THE BIOMEDICAL SCIENCE PATHWAY TO TAKE THIS COURSE.**

ENGINEERING PATHWAY

On Campus/(Online) Course Number	Title	Number of Credits	UC Approval and Category	Grade Level
EG150	Engineering 1: Introduction to Engineering Design	10	"d"	9

Prerequisite: Algebra 1. The major focus of IED is the design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students use industry standard 3D modeling software to help them design solutions to solve proposed problems, document their work using an engineer's notebook, and communicate solutions to peers and members of the professional community. **STUDENTS MUST BE A MEMBER OF THE ENGINEERING PATHWAY TO TAKE THIS COURSE.**

EG250	Engineering 2: Principles of Engineering	10	"d"	10
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Prerequisite: C or better in Engineering 1. This survey course exposes students to major concepts they'll encounter in a post-secondary engineering course of study. Topics include mechanisms, energy, statics, materials, and kinematics. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work and communicate solutions. **STUDENTS MUST BE A MEMBER OF THE ENGINEERING PATHWAY TO TAKE THIS COURSE.**

EG350	Engineering 3: Honors Applied Engineering	10	"g"	11
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Prerequisite: C or better in Engineering 2 AND concurrent enrollment in Physics and Lab or higher. This course builds on the major concepts and skills learned in Introduction to Engineering Design and Principles of Engineering. Through the use of design problems students, working in teams, will be challenged to a deeper level of understanding and application of engineering topics/modules in the areas of: engineering economics, energy efficiency/green economy/decarbonization and power, control systems, digital electronics (double of other modules), mechanical and electrical design, and structures/construction drawings and materials science. In addition, students will continue using autocad, programming languages of Arduinos/variable speed drives/ electronic circuit design and simulation software to assist them in developing a design solution and use of programmable logic devices. **STUDENTS MUST BE A MEMBER OF THE ENGINEERING PATHWAY TO TAKE THIS COURSE.**

EG450	Engineering 4: Engineering Capstone	10	"g"	12
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Prerequisite: C or better in Engineering 3, Precalculus, Physics and Lab AND concurrent enrollment in a fourth-year mathematics class. In this capstone course, students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. Students perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams design, build, and test their solutions. Finally, student teams present and defend their original solution to an outside panel. **STUDENTS MUST BE A MEMBER OF THE ENGINEERING PATHWAY TO TAKE THIS COURSE.**

SOCIAL SCIENCE

On Campus/(Online) Course Number	Title	Number of Credits	UC Approval and Category	Grade Level
SS105	World and Human Geography	5	"g"	9-12

The purpose of this one semester World Geography course is to prepare the students to become knowledgeable, self-aware citizens in the global setting. Upon completion of this course, the student will have knowledge of various regions and cultures and be able to interpret and analyze maps, cultures, graphs/charts/other tools, and assess geographical information from a multicultural perspective.

Students will learn the 5 Themes of Geography; social, political, economic, and cultural through various global regions (Europe; East Asia; Middle East/Southwest Asia, North Africa; South/Southeast Asia; Latin America). Students will also understand the long-term impact that humans have on the global community through the study of current events and issues. The class will focus on important skill building exercises to help the students advance as active learners. Emphasis on critical thinking, reading, writing, problem solving and presenting before peers will enhance the learning and build skills necessary for success.

SS200 (SS201-202-online)	Modern World History	10	"a"	10
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This is a study of the major ideas, events and turning points in the shaping of the modern world. Modern World History focuses on world developments since the late 18th century. Among the periods covered are the Enlightenment, Industrial Revolution, Political Revolutions, Imperialism, World Wars I and II, the Cold War, and Contemporary Events. Critical thinking skills will be developed through analysis of events, cause and effect relationships, and prediction of consequences. Specific learning tools incorporate writing methods, public speaking, use of technology and literature.

SS2000	AP World History	10	"a"	10
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Prerequisite: A in Composition and World Literature 1 OR A/B in Honors Composition and World Literature 1 OR benchmark met on standardized testing. The purpose of the Advanced Placement World History course is to use relevant factual knowledge taken from primary and secondary sources with high-order thinking skills to acquire a greater understanding of the development of global processes, from ancient times to the present day. The course emphasizes the character of change and continuity in world structures and their impacts. Furthermore, this study will evaluate the interchange of major societies in the global community and the results of that interplay. Throughout the duration of this course, the instruction lends itself to chronological periodization as well as thematic perspective. Students in this course take the AP Exam in May with the possibility of receiving college credit or placement.

Note: All students enrolled in AP classes are required to take the AP exam given in May. Exams require a nonrefundable fee during the early part of the second semester.

SS2700	AP European History	10	"a"	10
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Prerequisite: A in Composition and World Literature 1 OR A/B in Honors Composition and World Literature 1 OR benchmark met on standardized testing. This course explores European history since 1450 by introducing students to the cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. Without this knowledge, we would lack the context for understanding the development of contemporary institutions, the role of continuity and change in present-day society and politics, and the evolution of current forms of artistic expression and intellectual discourse. In addition to providing a basic narrative of events and movements, the goals of AP European History are to develop (a) an understanding of some of the principal themes in modern European history, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing. **Note: All students enrolled in AP classes are required to take the AP exam given in May.**

Exams require a nonrefundable fee during the early part of the second semester.

SS300 (SS301-302-online)	United States History	10	"a"	11
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Prerequisite: Modern World History or AP World History or AP European History. This course consists primarily of readings in and lectures on the history of the United States. Course will trace the development of the United States from 1492 to the present day, using the traditional political-military approach as well as a social-cultural perspective. Particular emphasis will be on events of the twentieth century, although Exploration and Colonization, Nationalism and Sectionalism, and Industrialization and Expansion will be reviewed appropriately. Students will develop practical familiarity with the geography of the nation, vocabulary appropriate to the study of American history, and understanding of the major historical periods, individuals, movements, and ideas that have contributed to the creation of the American society. Note taking, essay writing, and critical synthesis will be emphasized.

SS3000 (SS3001-3002-online)	AP United States History	10	"a"	11
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Prerequisite: A in Modern World History OR A/B in AP World History or AP European History OR benchmark met on standardized testing. An accelerated lecture course intended to introduce students to college-level work and expectations. Familiarizes students with the significant events and issues of American history and develops the process of critical analysis necessary to interpret these facts. The course covers the major historical periods in United States history from 1492 to the present, and students will be expected to grasp basic factual knowledge and related themes. In addition, students will be exposed to historical debate on selected issues, focusing on areas of disagreement among historians. Critical thinking and essay writing skills will be strengthened throughout this challenging course. Participants may take the Advanced Placement Exam in May for college credit. **Note: All students enrolled in AP classes are required to take the AP exam given in May. Exams require a nonrefundable fee during the early part of the second semester.**

SS400	Civics	5	"a"	12
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Prerequisite: US History or AP US History. In this one semester course, Civics establishes the connection between the basic concepts of American constitutional government and the practical and philosophical applications of democratic participatory citizenship. Students are expected to master various theories of government, the foundations of the United States Constitution, the three-branch system of government, and citizen responsibilities. Both historical and current issues and controversies play a major role in the course and are integrated into the subject matter. Participation and critical thinking are emphasized. Students are encouraged to become informed citizens and to take an active role in the political process.

(SS401-online)	U.S. Government	5	"a"	12
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Prerequisite: US History or AP US History. In this one semester course, Responsible citizenship, including civil and political participation is essential to maintain a representative government that truly represents the people of the United States. In this course, students learn about the structure of government and how it shares power at the local, state and federal levels. This course also explores founding principles that inspired the Constitution and Bill of Rights, preserving the freedoms that students experience daily. Students will examine the processes of each branch of government, the election process, and how citizens can impact public policy. The media, interest groups and influential citizens provide examples of how the government can be affected by informed and active participants. Students will examine the U.S. Court system, and become a part of the process by participating in the judicial decision making process. They will also discover ways the United States interacts with countries around the world, through domestic policy, foreign policy and human rights policy. Completion of this course will allow you to act as an informed citizen who is ready to participate in the American democracy!

SS410 (SS411-online)	Economics	5	"g"	12
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Prerequisite: **US History or AP US History.** In this one semester course, Economics is an introduction to the study of economics and economic systems prevalent in our world today. Special focus is on the economy of the United States - its structure, problems, and prospects. Course will cover economic foundations, alternative systems, microeconomics and macroeconomics, and aspects of the international economy. Students are expected to assimilate basic economic concepts, and to apply them in realistic situations. Various hands-on experiences may be provided to facilitate student understanding and participation, including the reading of case studies, playing the Stock Market, creating a budget, guest speakers, and current events applicable to the subject matter. Students must utilize mature thinking and writing processes in this course.

SS4000	AP US Government and Politics	10	"a"	12
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Prerequisite: **A in US History OR A/B in AP US History OR benchmark met on standardized testing.** *Note: this is a 2 semester course on campus. This on campus course fulfills the Civics and Economics graduation requirement.* The overall goal of this college-level course is to develop an understanding of the American political system through an exploration of its philosophy, traditions, values, and Constitutional framework. Students will examine the organization, powers, and processes of the Congress, the Presidency, and Judiciary as they function in the political system. The problems of bureaucracy, faction, interest-group politics, and minority rights will also be explored. Students will write frequently and critically on a variety of topics related to the course and will take the nationally administered Advanced Placement Exam in American Government for college placement or credit in May. **Note: All students enrolled in AP classes are required to take the AP exam given in May. Exams require a nonrefundable fee during the early part of the second semester.**

(SS4001-online)	AP US Government and Politics	5	"a"	12
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Prerequisite: **A in US History OR A/B in AP US History OR benchmark met on standardized testing.** *Note: this is a 1 semester course online.* Students investigate key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study the structure of the Constitution throughout the course, as well as its implications for the functioning of government today. Other foundational documents, landmark Supreme Court cases, and opportunities for research and civic action are key elements in this rich course that prepares students to be informed and active participants in U.S. society. Students will write frequently and critically on a variety of topics related to the course and will take the nationally administered Advanced Placement Exam in American Government for college placement or credit in May. **Note: All students enrolled in AP classes are required to take the AP exam given in May. Exams require a nonrefundable fee during the early part of the second semester.**

(SS5011-online only)	AP Macroeconomics	5	"g"	12
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Prerequisite: **A in US History OR A/B in AP US History OR benchmark met on standardized testing.** *Note: this is a 1 semester course online.* In this course, students establish the fundamentals of economics, with a survey of scarcity, opportunity cost, supply, demand, and market equilibrium. They then zoom out to the largest scale of economic analysis, learning the indicators of whole countries' economic health, specifically gross domestic product, unemployment, and price level. With that foundation, the rest of the course looks at fiscal and monetary policies, their consequences, and the basics of international trade and the foreign exchange market. Besides being intentionally prepared for the AP Exam, students will gain a much deeper understanding of the world around them, the roles that government and banks play in an economy, and the economic outcomes generated by their policy decisions. **Note: All students enrolled in AP classes are required to take the AP exam given in May. Exams require a nonrefundable fee during the early part of the second semester.**

(SS351-online only)	Psychology	5	"g"	11-12
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Prerequisite: **Composition/World Literature 2 or Honors.** This semester-long course studies where thoughts and memories come from. What are emotions? Why do we behave the way we do? This course will help you to begin to understand the human mind by exploring the research and theories of some of the most brilliant psychologists throughout history. In addition, learn psychological tips you can use every day, like how to cope and reduce stress.

SS2500 (SS2501-2502-online)	AP Human Geography	10	"a"	9-12
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Prerequisite: **Strong performance on HSPT for incoming 9th grade students OR A in a college prep English or history course OR A/B in an honors or AP English or history course OR benchmark met on standardized testing.**

The purpose of AP Human Geography is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. Students will develop skills that enable them to use and think about maps and spatial data, understand and interpret the implications of associations among phenomena in places, and recognize and interpret at different scales the relationships among patterns and processes. The following topics will be covered in the course: Geography's nature and perspectives, population, cultural patterns and processes, political organization of space, agricultural and rural land use, industrialization and economic development, and cities and urban land use. **Note: All students enrolled in AP classes are required to take the AP exam given in May. Exams require a nonrefundable fee during the early part of the second semester.**

SS2600	AP Psychology	5	"g"	11-12
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Prerequisite: **A in a college prep English or history course OR A/B in an honors or AP English or history course OR benchmark met on standardized testing.**

Note: this is a 1 semester course on campus. The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. **Note: All students enrolled in AP classes are required to take the AP exam given in May. Exams require a nonrefundable fee during the early part of the second semester.**

(SS2601-2602-online)	AP Psychology	10	"g"	11-12
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Prerequisite: **A in a college prep English or history course OR A/B in an honors or AP English or history course OR benchmark met on standardized testing.**

Note: this is a 2 semester course online. Immerse yourself in the scientific study of human behavior and cognition. Learn about notable figures and psychological studies. Investigate scientific methods and ethical considerations related to human and animal research. In this college-level course, you will learn about and apply important terms, concepts, and phenomena associated with each major area of psychology and enhance your critical thinking skills. Topics include the biological bases of psychology, sensation and perception, learning, cognition, development, motivation, emotion, personality, psychological disorders, and social psychology. **Note: All students enrolled in AP classes are required to take the AP exam given in May. Exams require a nonrefundable fee during the early part of the second semester.**

SOCIAL ENTREPRENEURSHIP PATHWAY

On Campus/(Online) Course Number	Title	Number of Credits	UC Approval and Category	Grade Level
SE150	Social Entrepreneurship 1: Intro to Entrepreneurship	10	"g"	9

Intro to Entrepreneurship is an elective course designed to provide instruction in entrepreneurship. It serves our school community by providing (1) an understanding of business practices and the global economy, (2) a foundation for students desiring to pursue entrepreneurship or post-high school business education and career, and (3) a tool for our students to use in their future to promote justice and uplift the human condition. This course explores the concepts and practice of entrepreneurship, through reading and project assignments, class discussions, cases, and guest speakers. The course will equip students with the basic tools and techniques typically used in the development of a business. In April or May, typically on a Sunday, all students are required to compete in the Project Echo Competition hosted by UCLA-Anderson School of Management. If you do not attend this competition, you will not pass this class. **STUDENTS MUST BE A MEMBER OF THE ENTREPRENEURSHIP PATHWAY TO TAKE THIS COURSE.**

SE250	Social Entrepreneurship 2: Social Entrepreneurship	10	"g"	10
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Prerequisite: C or better in Social Entrepreneurship 1. Social Entrepreneurship is a collective global movement working towards developing and scaling sustainable solutions to some of the world's most toughest problems. The learning path is designed such that it puts you on a course to developing your own social venture. You will be introduced to basic concepts of social entrepreneurship, and ultimately come out with an intricate understanding of the key elements of starting a social venture and the core foundations of social entrepreneurship. In April, all students are required to compete in the Project Echo Competition hosted by UCLA-Anderson School of Management. The main topics covered are: (1) An introduction to social entrepreneurship, (2) Understanding a social problem and designing a solution, (3) Developing a social enterprise business plan, and (4) Financing social ventures. **STUDENTS MUST BE A MEMBER OF THE ENTREPRENEURSHIP PATHWAY TO TAKE THIS COURSE.**

SE350	Social Entrepreneurship 3: Small Business Management and Advertising and Promotion	10		11
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Prerequisite: C or better in Social Entrepreneurship 2. This course is designed for those students interested in small business, either in a domestic or international market. Topics include start-up methods and techniques, management and operations, marketing, financing and cash management, location strategies, personnel practices, buying and selling strategies, and e-commerce. This course will also provide students with an opportunity to develop a business plan as it pertains to their small business interest. This is a college level, dual-enrollment course.

This course introduces students to the creative and competitive field of advertising and promotion. Course content includes understanding the target audience, developing marketing and advertising plans, engaging in the creative process through strategy and

execution, and integrating marketing communications elements as they relate to personal selling, sales promotion, direct marketing, and electronic, digital, and print media. This course is appropriate for the marketing major or anyone interested in advertising and promotion. This is a college level, dual-enrollment course. **STUDENTS MUST BE A MEMBER OF THE ENTREPRENEURSHIP PATHWAY TO TAKE THIS COURSE.**

SE450	Social Entrepreneurship 4: Financial Literacy/Business Ethics	10		12
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Prerequisite: C or better in Social Entrepreneurship 3. A study of the financial problems encountered in managing family financial affairs. Topics include financial security for the family, budgeting, use of credit, home ownership, financial tangles, and savings and investment plans. Using project-based instruction and real-world situations this course will give students the knowledge and general understanding of all key aspects of personal finances necessary to be successful now and throughout their adult lives. Units covered include personal banking, financing, investing, and setting yourself up for success through budgeting/planning. Note: Covers the economics graduation requirement. **STUDENTS MUST BE A MEMBER OF THE ENTREPRENEURSHIP PATHWAY TO TAKE THIS COURSE.**

VISUAL AND PERFORMING ARTS

On Campus/(Online) Course Number	Title	Number of Credits	UC Approval and Category	Grade Level
VP130 (VP131-132-online)	Animation 1	10	"F"	9-12

This course will cover the history, theories, and creation process of 2D animation. All phases of production will be covered and will explore the art of storytelling and communicating artistic ideas through the use of traditional and computer animation techniques.

VP230 (VP231-232-online)	Animation 2	10	"F"	10-12
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Prerequisite: Animation 1. In this course students will build upon already learned techniques in Adobe Animate CC, as well as be able to use and navigate Adobe After Effects CC, Adobe Photoshop CC, and Adobe Premiere to finalize and export their animations. Students will learn (1) further proficiency in a variety of Adobe programs, mainly Adobe Animate, and Adobe After Effects; (2) storytelling, storyboarding, and character design in Pre-Production; (3) animation using a combination of keyframes, tweens, and background layouts to tell a story in Production; (4) editing and adding sound and special effects to their story in Post-Production and (5) how to critique and offer constructive advice when viewing final animations.

VP330 (VP331-332-online)	Animation 3	10		11-12
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Prerequisite: Animation 2. In this course students will build upon already learned techniques in Adobe Animate CC from Animation 2, as well as be able to use and navigate Adobe After Effects CC, Adobe Photoshop CC, and Adobe Premiere to finalize and export their animations. Students will advance their proficiency in (1) a variety of Adobe programs, mainly Adobe Animate, and Adobe After Effects; (2) storytelling, storyboarding, and character design in Pre-Production; (3) animation using a combination of keyframes, tweens, and background layouts to tell a story in Production; (4) editing and adding sound and special effects to their story in Post-Production and (5) critiquing and offering constructive advice when viewing final animations.

VP430 (VP431-432-online)	Animation 4	10		12
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Prerequisite: Animation 3. Students will continue to build upon skills learned in the previous classes to better tell stories and communicate ideas through the animated art form. In addition to more focus on the students ability technically and creatively, students taking Animation 4 will serve as an aid to the lower level animation students, being able to share their knowledge with their peers and work collaboratively to complete group projects.

VP100	Exploring Art	10	"F"	9-12
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This year-long course is intended to be an introduction to communication by drawing, working with black, white, and color using the Elements and Principles of Design. Searching and planning for ideas, styles, different drawing media (oil pastels, pastels, charcoal, graphite pencil, chalk and paints) and different techniques. The students will explore the options of composition, the light and shadows, and analyzing and critiquing completed work. A paper is required on artist styles.

VP250	Intermediate Art	10	"F"	10-12
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Prerequisite: Exploring Art. The intent of this course is to adhere to the National Core Arts Standards: Artistic Processes and Anchor Standards. Students will be creating artistic ideas and works, performing, presenting and producing their artistic ideas, responding through critical analysis, and connecting their artistic ideas to external contexts - societal, cultural and historical. Students develop not only their ability to draw and paint assigned subject matter, but more importantly, their powers of observation and interpretation. They develop their skills in creative problem-solving, learning to turn "mistakes" into important opportunities for self-discovery and produce fine art that expresses their own unique visions.

(VP1001-1002-online only)	AP Art History	10	"F"	11-12
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Prerequisite: A in Modern World History or A/B in AP World History or benchmark met on standardized testing. Within AP Art History, students will explore the interconnections between art, culture, and historical context using critical analysis through the critical lenses of artistic expression, cultural awareness, and purpose. Using a defined art historical skill set and reflective learning, students will analyze relationships across cultures with a global lens. The examination of how people have responded to and communicated their experiences through art will enable students to think conceptually about art ranging from prehistoric to contemporary. Students will be active participants, engaging with art and its context as they read, research, and collaborate to learn about art, artists, art making, and responses to and interpretations of art.

VP370	Photography/ Yearbook	10	"F"	9-12
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Students in Photography/Yearbook will develop and expand their knowledge and skills in producing both artistic and commercial photographs using digital DSLR cameras and equipment. Students will learn how to set the camera controls to create specific effects with the cameras, for example lighting control and emphasis. Students will learn digital imaging using Photoshop Elements to enable them to edit and manipulate digital images. Students will create page layouts, and write copy, captions and stories which will be combined with their photographs for special assignments and publishing materials including the high school yearbook.

VP360	Media Production	10	"F"	9-12
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Media Production is designed for students interested in the digital arts. Students will focus on the three components of filmmaking (pre-production, production, post-production). Students will be introduced to the creative elements and technical skills necessary to produce high quality media (script writing, storyboards, camera work, lighting, sound, editing, etc.) that enables students to convey their own unique point of view. Students will alternate between roles as director, producer, editor and other various roles which will enhance the student's understanding of how to create high quality media.

VP120	Beginning Band	10	"F"	9-12
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Students will discover the world of music through hands-on work with concert band instruments. Musical terminology, rhythmic figures and reading skills will be learned to further enhance this experience. Concert Band is considered a performance group. Instruments being offered are Flute, Clarinet, Saxophone, Trumpet, Horn, Trombone, Baritone, Tuba, Electric Bass, Mallet Percussion and combined percussion.

VP220	Intermediate Band	10	"F"	9-12
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Prerequisite: Beginning Band or audition. Intermediate Band is a year-long course open to students with previous instrumental music experience and who already know how to read music. Students will participate in pep band, marching band and concert band

performances. Students are required to attend private or semi-private sectionals/lessons on a regular basis. In addition, students will have individual opportunities to participate in optional events like Solo and Ensemble Contest, IMEA and the Conference Music Festival. Attending all full band performances is a course requirement. Members will also practice marching techniques and music to be used in performances at football games and parades. Members will be expected to attend rehearsals outside of regular class time.

VP150	Drumline/ Percussion Band	10		9-12
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This course teaches the basics of music reading and performance in the area of orchestral percussion. Percussion instruments to be covered include snare drum, bass drum, xylophone, vibraphone, marimba, timpani and auxiliary percussion instruments such as tambourine and triangle. Students will perform intermediate level percussion ensemble literature in a range of performance situations. Some performances will be on weekends, which may require traveling. Students will also prepare literature for concert band performances. Students will study and analyze music from historical periods and various cultures to gain a broad understanding of how music has been influenced by culture and period history. Students will study and analyze music theory at an intermediate level and create musical compositions at an intermediate level. *This is an 8th-period course.*

VP160	Jazz Band	10		9-12
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The purpose of this course is for the students to continue to improve and develop their skills, knowledge, and appreciation of jazz music through active listening and performance of varied jazz idioms and to be able to effectively communicate this understanding through the use of jazz idioms and improvisation. Students will achieve an advanced level of proficiency on an instrument while developing creative and artistic expression. *This is an 8th-period course.*

VP170	Marching Band/Wind Ensemble	10	"F"	9-12
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This course is designed to introduce the student to a variety of styles used in marching band. This course will expose and develop the student's knowledge and understanding of basic theory, instrument practice, and technique, both in an ensemble setting and in an individual practice setting. In addition, students will learn both the physical and mental types of marching routines in relation to the style of music. Note: This course can also be used for PE credit. *This is an 8th-period course.*

VP140	Color Guard	10		9-12
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This course provides students with the opportunity to create and perform movement pieces, develop show designs and works, learn and practice teaching techniques, interpret and evaluate dance and color guard, and enhance competency leading to successful career opportunities. Students will be expected to show knowledge of and demonstrate intermediate and advanced level dance movement in the styles of modern, ballet, jazz, contemporary, and other cultural dances. Students will also learn partner choreography and techniques, as well as safe techniques for partner sharing and weight sharing. *This is an 8th-period course.*

VP410	Hip Hop: Formation, Structure, and Production	10	"F"	9-12
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Drawing on the rich history and influence of Hip-Hop, students will create original content through the written word and the creative process that will then be transformed into artifacts/songs/song segments. Students will learn the nuances of songwriting, producing beats, arranging tracks and creative sampling. Students will be introduced to and work hands-on with current technology, tools, and concepts that are utilized in the world of professional music makers in the commercial recording industry. Projects that will be created in the course will be both collaborative and individually based.

VP410 (VP411-412- online)	Music Appreciation	10	"F"	9-12
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This course will survey some of the most culturally representative films and film scores of the 20th century while laying the groundwork for students to acquire the skills necessary to critically engage film as a multi-sensorial experience. Special attention will be paid to aesthetic questions arising from the fusion of sound and image as well as the psychological, political and philosophical resonances that result from this union.

VP400	Popular Music	10	"F"	9-12
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This course is designed for students to examine American popular music through the mid-late twentieth century through the early part of the twentieth first century. The course will focus on how the political, cultural, and economic factors in American history helped influence the development of the lyrics of music of pop, rock, soul, blues and other musical genres. The course will also examine the use of lyrical and musical development as a form of expression/protest. Using American History as a cultural backdrop, students will better understand the development of various musical genres, compositional techniques, usage of instruments/sounds, and other notable musical characteristics found in American popular music.

VP110	Theater Arts 1	10	"F"	9-12
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A year-long course designed to train students in the fundamental skills of acting and theatrical production. Students will study and learn the tools of an actor (mind, body and voice) and apply these tools to a range of in-class performances. In addition, students will gain an understanding of how writers, performers, and designers collaborate to produce a theatrical production. Theater history, how the human experience has been represented on stage throughout the centuries, will also be explored.

VP210	Theater Arts 2	10		10-12
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Prerequisite: Theater Arts 1. This course is designed for students to further study Theater Arts. Instruction is designed to include the study of various genres of theater literature, further development of the craft of acting, and in-class performance projects including directing and design as well as further development of the technical aspects of theater production and production assistance.

FILM AND MEDIA PATHWAY

On campus/(Online) Course Number	Title	Number of Credits	UC Approval and Category	Grade Level
VP180	Film and Media 1: Screenwriting	10	"F"	9

The purpose of the course is to learn about film and media screenplay structure, analyze dramatic strategies in film and television, learn and apply correct script form, and creatively engage in the various stages of original scriptwriting. The assignments will include the writing of scenes, a treatment and a half-hour script, with special emphasis on the steps leading toward creating a final screenplay. **STUDENTS MUST BE A MEMBER OF THE FILM AND MEDIA PATHWAY TO TAKE THIS COURSE.**

VP280	Film and Media 2: Production and Design	10	"F"	10
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Prerequisite: C or Better in Film and Media 1. The goals of this course are to introduce the student to the world of the production and design, to establish a basic design vocabulary, to give the student experience with various aspects of forming a design concept based on a script, to give the student first hand information about current productions through the appearance of guest speakers, and to prepare the student for practical applications in the field of production design/art direction. Ideally, by the end of the class, students should be able to translate abstract verbal ideas and concepts into a visual vocabulary and structure. **STUDENTS MUST BE A MEMBER OF THE FILM AND MEDIA PATHWAY TO TAKE THIS COURSE.**

VP390	Film and Media 3: Directing and Producing	10	"F"	11
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Prerequisite: C or Better in Film and Media 2. This course has a continued focus on story-telling/writing while also exploring a more advanced study into the technical aspects that helps to steer students towards a specialization in the film industry, such as screenwriting, directing, editing, cinematography, production design (sound, special effects, art direction) and producing. Students are required to serve on student film crews in advisory positions as heads of department. Students will produce/direct an advanced 5 minute upper level narrative/documentary portfolio project based on the skills and knowledge gained over the previous three years. Students will begin to brainstorm and formulate their Senior Thesis Project plan over the course of the 3rd year. **STUDENTS MUST BE A MEMBER OF THE FILM AND MEDIA PATHWAY TO TAKE THIS COURSE.**

VP	Film and Media 4: Senior Capstone	10	"F"	12
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Prerequisite: C or Better in Film and Media 3. Year four has a continued focus on story-telling/writing culminating with a Senior Thesis film/project, greater focus on their particular specialization area, the business of cinema and media and the development of a portfolio for college/film school applications and professional industry employment. Students in this year will write, produce, direct, edit and film their own 10 minute Senior Thesis projects with the collaborative help of all students involved in the Pathway serving as Department Heads, and Production crew. Fourth year students will have the opportunity to submit finished Senior Thesis films to film festivals and competitions. **STUDENTS MUST BE A MEMBER OF THE FILM AND MEDIA PATHWAY TO TAKE THIS COURSE.**

WORLD LANGUAGES

On Campus/(Online) Course Number/ Honors	Title	Number of Credits	UC Approval and Category	Grade Level
(WL501-502-online only)	American Sign Language 1	10	"e"	9-11

This course will jump start your American Sign Language journey by learning the basics of this visual language and exploring the Deaf culture. Get ready to broaden your concept of communication through connections and comparisons to your own culture and community. Note: this course is only offered online.

(WL601-602-online only)	American Sign Language 2	10	"e"	9-12
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Prerequisite: American Sign Language 1. This course will reinforce the fundamental skills acquired in your American Sign Language 1 course. You will continue your journey by increasing your interpretive and communication skills of this visual language while continuing to explore the Deaf culture. Get ready to broaden your concept of communication through connections and comparisons to your own culture and community. Note: this course is only offered online.

(WL411-412-online only)	Chinese 1	10		9-11
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The purpose of this beginner's course is to train the student to successfully function in Chinese culture using Mandarin as a language. The course will help the student develop communication skills that cross ethnic and cultural boundaries while they develop an understanding of Chinese interpersonal behavior and related thought patterns. This course focuses on basic speaking and listening skills, vocabulary, and grammar and introduces the student to Chinese characters and the writing of Chinese in the Romanized pinyin form. It requires the student to demonstrate a level of cultural understanding suitable for correct performance of assigned tasks in Chinese. Note: this course is only offered online.

(WL411-412-online only)	Chinese 2	10		9-12
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Prerequisite: Chinese 1.

This course continues the Mandarin language and Chinese culture training initiated in Chinese 1 with more advanced topics in Mandarin conversational proficiency, vocabulary, and grammar. This course incorporates speaking, listening, reading, and writing skills; the student will continue to learn to read and write a certain number of Chinese characters and the pinyin system. The course requires students to demonstrate a level of cultural understanding suitable for correct performance of assigned tasks in Mandarin. The course will be focused on mastering Mandarin pronunciation and more complicated spoken Chinese in educational and working environments. Note: this course is only offered online.

(WL4701-online only)	AP Chinese Language and Culture	5	"e"	9-12
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Prerequisite: A in Chinese 2 OR benchmark met on standardized testing.

The AP Chinese Language and Culture course in Mandarin Chinese 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 Chinese Language and Culture course strives not to

overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in Chinese. Note: this course is only offered online.

The AP Chinese 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 cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions). **Note: All students enrolled in AP classes are required to take the AP exam given in May. Exams require a nonrefundable fee during the early part of the second semester.**

WL140 (WL141-142-online)	French 1	10	"e"	9-11
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Provides practice in listening for comprehension and speaking. The student learns vocabulary related to home, school and community. The student will practice pronunciation, intonation and use of basic language structures in both oral and written exercises. The course develops appreciation for the customs and traditions of French-speaking people both within the United States and abroad.

WL240 (WL241-242-online)	French 2	10	"e"	9-12
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Prerequisite: French 1. Reviews subject matter introduced in French 1, and provides further practice in comprehension, speaking, oral reading and writing. More advanced language structures are practiced and correct pronunciation and intonation are further developed. The course introduces reading for direct comprehension without translation, writing adapted dialogues, narratives and dictation. The course continues to develop appreciation for French culture and customs.

WL380 (WL341-342-online)	French 3	10	"e"	9-12
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Prerequisite: French 2. Further develops aural-oral facility through more varied listening and speaking activities. Grammatical concepts are reviewed and analyzed, while vocabulary development and proficiency skills are fostered in conversational settings. In addition, appreciation of French culture continues to be fostered.

WL480	French 4	10	"e"	9-12
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Prerequisite: French 3. French 4 is an advanced level French course where previously introduced skills are further practiced, developed, and honed. The main goal of this course is for students to develop, on a daily basis, receptive and productive skills that will allow them to communicate extensively in French and understand the language and its different perspectives through cultural experiences.

(WL301-302-online only)	Latin 1	10	"e"	9-11
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Introduce yourself to the culture and rich storytelling tradition of the ancient Romans through the study of classical Latin. In the Latin 1 course, you will build a foundation of grammar and vocabulary skills to help increase fluency and language proficiency. You will explore the mythology, history and culture of Rome and apply what you learn through translation practice, writing, listening, and conversation exercises, while reading Roman stories that have stood the test of time and tracing the Latin roots that run through modern language and culture. Note: This course is only offered online.

(WL321-322-online only)	Latin 2	10	"e"	9-12
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Prerequisite: Latin 1. Immerse yourself in a journey through Roman history using the Latin language as your guideposts. In the Latin 2 course, you will build upon your first level grammar and vocabulary skills to help increase fluency and language proficiency. You will explore the culture and apply what you learn through translation practice as well as writing, listening, and conversation exercises, while learning all about the different eras of Rome—from Foundation to Fall. Note: This course is only offered online.

(WL331-332-online only) (WL331H-332H-online)	Latin 3 <i>College Prep or Honors</i>	10	e"	9-12
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Prerequisite: A in Latin 2 OR benchmark met on standardized testing. In Latin III, students take their knowledge to the next level by strengthening their Latin vocabulary and appreciation for well-crafted writing. Students read some of the best Latin prose and poetry ever written or spoken and recognize why Latin, and those who spoke it, are still relevant today. In Latin III, students access the timeless words of the greatest Roman poets, storytellers, and orators. Students' skills with the Latin language give them direct access to the beauty and power of these great authors' thoughts. Caesar tells how he conquered the three parts of Gaul. Cicero reminds Romans of the virtues that made their country great. Catullus shows how he could express the deepest human emotions in just a few, well-chosen words. Note: These courses are only offered online.

WL100 (WL101-102-online)	Spanish 1	10	"e"	9-11
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Provides practice in listening for comprehension and speaking. The student learns vocabulary related to home, school and community. The student will practice pronunciation, intonation and use of basic language structures in both oral and written exercises. The course develops appreciation for the customs and traditions of Spanish-speaking people both within the United States and abroad.

WL110	Spanish 1 Heritage Honors	10	"e"	9-11
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Prerequisite: Passing grade on the Heritage speaker placement assessment. A year-long course designed to fulfill the needs of Heritage students. The course builds upon the knowledge; skills and experiences students bring to the Spanish classroom. Attention is given to the skills of reading, writing, grammar, listening and speaking. Students are given ample opportunities to express themselves in speech and writing.

WL200 (WL201-202-online)	Spanish 2	10	"e"	9-12
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Prerequisite: Spanish 1. Reviews the subject matter presented in Spanish 1 and provides further practice in comprehension, speaking, oral reading and writing. Language structures appropriate to this level are covered and correct pronunciation and intonation are further developed. The course further develops appreciation of the culture, customs, geography, history and traditions of Spanish speaking people throughout the world.

WL210	Spanish 2 Heritage Honors	10	"e"	9-12
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Prerequisite: Spanish 1 for Heritage Speakers or placement assessment. This course provides further practice in listening, speaking, reading and writing for Heritage students. The meaningful and personalized activities motivate students to improve the quality of language they produce. The course focuses on reading development, formal grammar, general facility in composition and conversation.

WL350 (WL351-352-online) WL355 (WL351H-352H-online)	Spanish 3 <i>College Prep or Honors</i>	10	"e"	9-12
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Prerequisite for College Prep: Spanish 2 or Spanish 2 for Heritage Speakers. Further develops aural-oral facility through more varied listening and speaking activities. Grammatical concepts are reviewed and analyzed, while vocabulary development and proficiency skills are fostered in conversational settings. In addition, there is appreciation of Hispanic culture.

Prerequisite for Honors: A in Spanish 2 or Spanish 2 for Heritage Speakers. This course is designed to prepare students for the AP Spanish Language and Culture class. The course includes expansion upon previously learned grammar as well as new advanced concepts, vocabulary study, and extensive use of all modalities in interpretive, interpersonal and presentational contexts. The continued study of culture from Spanish-speaking regions will occur through the use of literature and other authentic sources (music, audio sources, video, articles, etc). The class will be taught almost exclusively in the target language and students will be expected to use the target language as well.

WL450 (WL451-452-online) (WL451H-452H-online)	Spanish 4 <i>College Prep or Honors</i>	10	"e"	9-12
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Prerequisite for College Prep: Spanish 3 or Spanish 3 Honors. Prerequisite for Honors: A in Spanish 3 OR A/B in Spanish 3 Honors OR benchmark met on standardized testing. Spanish 4 is designed to give the students advanced training in the Spanish language. Students will receive instruction through communication-based instruction, literature-based instruction, and a multi-media approach that incorporates the national standards of comparisons, connections and communities. Students will also gain skills in understanding, speaking, reading, and writing Spanish, and gain respect for other people and cultures through an appreciation of the history of Spanish-speaking peoples. Special emphasis will be placed on history, culture, and literature.

WL4500 (WL4501-4502-online)	AP Spanish Language and Culture	10	"e"	9-12
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Prerequisite: A in Spanish 3 or A/B in Spanish 3 Honors OR A in Spanish 4 or A/B in Spanish 4 Honors OR A in Spanish 2 for Heritage Speakers OR benchmark met on standardized testing. A college level course in advanced Spanish composition and conversation. It emphasizes aural/oral skills, reading comprehension, grammar and composition. Students in this course take the AP Exam in May with the possibility of receiving college credit and/or placement. **Note: All students enrolled in AP classes are required to take the AP exam given in May. Exams require a nonrefundable fee during the early part of the second semester.**

WL4600	AP Spanish Literature and Culture	10	"e"	10-12
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Prerequisite: A/B in AP Spanish Language and Culture OR benchmark met on standardized testing. A college level course that covers selected authors from the literature of Spain and Spanish America and centers on the understanding and analysis of literary texts. The class enhances students' proficiency while developing their ability to analyze texts and communicate ideas through discussion and writing. Students in this course take the AP Exam in May with the possibility of receiving college credit and/or placement. **Note: All students enrolled in AP classes are required to take the AP exam given in May. Exams require a nonrefundable fee during the early part of the second semester.**

NON-DEPARTMENTAL

On Campus/(Online) Course Number	Title	Number of Credits	UC Approval and Category	Grade Level
EN160	English as a Second Language	5		9-12

Prerequisite: Recommendation by school counselor. This is a multi-leveled class of students with varying English proficiencies. It is designed to allow students to grow in their English skills at a pace that best fits their learning style and needs. The course focuses on listening, speaking, reading, and writing. The skills taught in this course prepare students to transition to high school here at Bosco and moving to college.

ND350	Internship	5 per semester		12
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Prerequisite: Limited spaces. Open to seniors in good standing. This course provides practical on-the-job experiential training in basic office procedures, etiquette, manners and practices. Proper business office attitudes are stressed. Limited spots are available. Grading is Credit/No Credit.

ND360	Leadership	10		9-12
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Prerequisite: By recommendation. This course is intended for students who are interested in becoming leaders on campus in student government. Students develop skills in leadership, collaboration, speaking, listening, planning and organization.

(OE101-online only)	Senior Exit Interview	5		12
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This course is only open to full time online seniors. Students will walk through the basic steps of interview skills, resume writing, and making a strong first impression. Students will build their resume and their personal video project in preparation for the live or online Senior Exit Interview. This is a Credit/ No Credit class.

EN150	University Prep	10		9
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University Prep is an elective course that offers ninth graders some important keys to high school success. This course will offer students instruction in organizational strategies, goal setting and time management techniques. It will introduce freshmen to the high school experience, focusing on traditions, activities, and services available. Students will work on high school planning, and explore post-secondary career options. Students will have one-on-one conference time with the teacher throughout the semester and opportunities to engage in scholarship.