WHARTON SCHOOL COURSE CATALOG




Table of Contents

Wharton Vision & Mission

Wharton offers Advanced Placement courses recognized by College Board as an AP Online Provider (Code: 598) and maintains all AP courses by passing AP Audit in each academic year. We are also one of the Distance Education Program course providers, approved by the Department of Education, Nevada. With a global vision and an aggressive entrepreneurial focus in developing joint educational programs between education institutions on a global level, Wharton supports young students to begin a learning journey at schools in the USA. Our mission is to provide the best possible online learning experience and to support people's lifelong learning with the goal to create a versatile life by acquiring useful knowledge, practical skills, and field studies worldwide.

Wharton 2021-22 Course Catalog

This catalog is a valuable reference manual for students, parents, and school personnel actively involved in curriculum planning at Wharton. The curriculum of Wharton consists of a core group of subjects intended to promote lifelong learning along with a wide array of elective courses designed to allow students to explore and experience themes and topics that are popular in the market. Additionally, it covers Advanced Placement courses created for those students who will continue to study at college. Class sizes are small enough to permit individual awareness.

Students are placed in sections appropriately matching their current skill level in order to promote success and engagement. The Advanced Placement courses sections offer a more demanding and accelerated pace to challenge the more well-prepared students. The Advanced Placement courses provide willing and academically

prepared students with the opportunity to immerse themselves in the rigor of college-level work. Advanced Placement courses classes are often characterized by challenging material, extended writing assignments, and demanding projects requiring more individual responsibility.

The graduation requirements are provided to ensure that Wharton graduates successfully complete a course of study in a broad range of disciplines and skills that provide an excellent educational foundation. Please keep in mind that these are minimum requirements and do not equate to college admissions requirements. Since most successful college applicants exceed minimum graduation requirements, we recommend that candidates take the most rigorous academic program available that they can handle without undue stress.

Students are encouraged to select courses that will be academically stimulating and personally enriching. Teacher recommendations and placement tests are the guides used by the scheduler for selecting core courses for our students. We have done a great deal of work in trying to identify those students who are capable of successfully completing Advanced Placement work. However, we recognize that there can be other important factors in recommending Advanced Placement courses for our students. There may be students who can rise to the challenge of taking an Advanced Placement class and/or can handle a schedule with a larger number of Advanced Placement courses.

Once a student has moved into an AP course, the ability to make a subsequent level change is dependent upon seat availability in the requested course. Maintaining acceptable class size will be a priority. In addition, the student is responsible for missed work. Grades follow the student with a level change, with due consideration given to the weight of that grade.

Typically, a study hall is required for all 9th graders to assist with the transition to an increased workload at Wharton. However, 10th, 11th & 12th graders with proven academic success are not required to enroll in study hall and may take another core or elective course.

Please remember that a student's ability to be enrolled in an elective is dependent upon seat availability in the requested course. Students will be able to choose up to three electives in order of priority. If you do not receive your primary choice, the scheduler will attempt to enroll you in your alternate choices if possible. In the event a first-choice elective course is unavailable, or if a scheduling conflict, e.g., two courses offered at the same time, prevents the first-choice elective course from being scheduled, the software will substitute the requested alternate option. Please understand that there are no guarantees, and core courses take precedence over electives.

Students and/or their parents should also consider seeking course selection advising from appropriate Wharton staff. It is very important to understand the ramifications of your decisions.

Academic Calendar

Part-time Students

Part-time students may enroll in Wharton's programs at any time of the year. There are no set class start dates, and students do not need to wait until the beginning of a new session or new semester. All courses offered are flexible and self-paced. Actual completion time varies by student.

Clark County School District Calendar 2021 and 2022		
School Calendar 2021-2022		
School Holidays Starts Finishes	**Starts**	**Finishes**
First Day of School	9 Aug 2021 (Mon)	--
Thanksgiving Break	25 Nov 2021 (Thu)	25 Nov 2021 (Fri)
Christmas Break	17 Dec 2021 (Fri)	5 Jan 2022 (Wed)
Spring Break	8 Apr 2022 (Fri)	18 Apr 2022 (Mon)
Last Day of School	25 May 2022 (Wed)	--

Admission Requirements

Wharton admits students of any race, color, national and ethnic origin to all the rights, privileges and activities generally accorded or made available to students at the school. It does not discriminate on the basis of race, color, national and ethnic origin in administration of its educational practices, admissions policies, scholarship, and athletic and other school-administered programs.

For students entering Wharton, the following documents are required before enrollment can be completed. Students must have completed eighth grade as evidenced by a school transcript.

- Official transcripts from the previous two schools years (and most up-to-date progress report)
- One standardized test score from the previous two years (If the student does not have standardized test records (i.e. SSAT, ISEE, PSAT, SAT, or ACT.) contact the Office of Admissions and arrangements will be made for Math and English standardized testing.)
- Official birth certificate (or other acceptable proof of age, he or she is considered "age-appropriate" for ninth grade and may enroll in Wharton program)

- Official government provided identity card (ie. driver's license, green card, permanent resident card)

If you do not have either of these documents, please contact us at support@wharton.education to discuss acceptable alternatives.

For non-U.S. citizens, regardless of grade level, students must have a working knowledge of the English language.

Nevada Middle School Promotion Requirements

Throughout middle school, a well-balanced educational program including mathematics, English, reading, science, social studies, career and technical education, fine arts or exploratory classes,
health, and physical education is emphasized. Students who successfully complete all middle school coursework are prepared for the rigors of high school and the End-of-Course Exams. The Nevada State Board of Education and the Clark County School District have adopted promotion standards and regulations to ensure students are academically prepared.

State of Nevada Regulation for Promotion to High School

Students enrolled in the 8th grade:
According to Nevada Administrative Code (NAC) 389.445, students must complete one and one-half credits in mathematics, one and one-half credits in English or reading, one credit in science, and one credit in social studies with a passing grade during seventh and eighth grade for promotion to high school. One-half credit is the equivalent of one semester.

Clark County School District Policy and Regulation 5123

Clark County School District Policy and Regulation 5123 – Promotion, Retention, and Demotion of Students – sets the standard for promotion from sixth to seventh grade, from seventh to eighth grade, and from eighth grade to high school.

- Pupils enrolled in grade 6 must complete one-half credit with a passing grade in mathematics, one-half credit with a passing grade in English or reading, and one-half credit with a passing grade in science for promotion to grade 7.

- Pupils enrolled in grade 7 must complete one-half credit with a passing grade in mathematics, one-half credit with a passing grade in English or reading, one-half credit with a passing grade in science, and one-half credit with a passing grade in social studies for promotion to grade 8.
- Pupils enrolled in grade 8 must complete one and one-half credits with a passing grade in mathematics, one and one-half credits with a passing grade in English or reading, one credit with a passing grade in science, and one credit with a passing grade in social studies during their seventh and eighth grade years for promotion to high school. An eighth grade student who does not meet promotion requirements may be promoted to high school on academic probation provided the student meets the criteria below. A parent or guardian may elect not to place his/her child on academic probation but to remain in grade 8.

High School Academic Probation

Although a student may be promoted to high school on academic probation, summer school credit retrieval is recommended to improve academic skills and to prepare for success in high school. Successful completion of required summer school courses may remove a student from academic probation.

An eighth grade student who has not met the promotion requirements may be promoted to the ninth grade on academic probation provided at least one of the following criteria has been met:

1. Smarter Balanced Assessment Consortium (SBAC) scores meet or exceed standards in ALL of the area(s) of credit deficiency; **OR**
1. Credits have been earned in ALL of the core area(s): English or reading, mathematics, science, and social studies; however, the student is deficient ONLY one-half credit of the five total credits required for promotion; **OR**
1. A student reaches the age of 16 (sixteen) on or before the final school day of the year in which the student would otherwise be retained.

High School Academic Probation will consist of the appropriate remediation in the subject area(s) in which the student failed to pass in middle school. Remediation may include, but is not limited to a minimum of one semester of remedial instruction in the deficient subject area(s) during the ninth grade year. The student must earn a passing grade in the remediation course(s) in order to be removed from academic probation. A student may be placed on academic probation for more than one semester.

An eighth grade student not meeting criteria for promotion to 9th grade and not meeting the criteria for academic probation may be retained in the eighth grade for the following school year without limitation. A retained eighth grade student may not be promoted mid-year.

Nevada High School Graduation Requirements

In order to receive a high school diploma in Nevada, students must complete their required course work, earn the credits required by state law and by their district, and participate in required state assessments.

Course of Study & Required Credits

Units of credit generally comprise one year of coursework and require at least 120 hours of instruction. Credit-

earning courses are required by state law to be taught by all public high schools as a course of study, including but not limited to:

- Four units of English Language Arts
- Four units of Mathematics including at least Algebra I & Geometry
- Three units of Science including at least twolaboratory courses Until June 30, 2022: Three units of Social Studies including
  -- American Government, American History, and World History/ Geography Beginning July 1, 2022: Three units of Social Studies including
  -- One-half unit of American Government
  -- Two units of American History,
  World History, or Geography
  -- One-half unit of Economics

Additional courses must be made available to fulfill graduation credit requirements for all diploma types including but not limited to:

- The Arts
- Computer Education & Technology
- Health
- Physical Education

Permissible elective courses of study may include additional courses in the subjects listed above, and may additionally include (but are not limited to):

- World Languages
- Great Basin Native Languages
- Employability Skills
- Career & Technical Education

Required Assessments

The State of Nevada Legislature and State Board of Education have determined participation in the following assessments to be required for graduation:

- ACT Plus Writing for college and career readiness
  -- ELA sections cover reading, writing, and English usage
  -- Math section covers middle and high school math standards.
  -- Science section covers content expected for college/career readiness.

Standard Diploma 2021-2022	
Courses	Units
American Government	1
American History	1
Arts and Humanities, JROTC, or CTE	1
English	4
Health	0.5
Mathematics	3
Physical Education	2
Computers	0.5
Science	2
Electives	7.5
Total	22.5

Things to Know

- Course credits are awarded only at the end of the course.
- Students must earn a minimum of 22.5 credits to graduate.
- The yearly academic program should include a minimum of five academic courses each year.
- Any requested exceptions to graduation requirements will be considered on an individual basis.
- Wharton reserves the right to evaluate each student's transcript at the time of entrance to determine which transfer credits will be accepted from another school.

Course Descriptions Grade 6-8

English

English Language Arts 6

Open to Grades: 6
Unit: 1

This course eases students' transition to middle school with engaging, age-appropriate literary and informational reading selections. Students learn to read critically, analyze texts, and cite evidence to support ideas as they read essential parts of literary and informational texts and explore a full unit on Lewis Carroll's classic novel Through the Looking Glass. Vocabulary, grammar, and listening skills are sharpened through lessons that give students explicit modeling and ample practice. Students also engage in routine, responsive writing based on texts they have read. In extensive, process-based writing lessons, students write topical essays in narrative, informative, analytical, and argumentative formats. In this full-year course, students develop a mastery of reading, writing, and language arts skills.

English Language Arts 7

Open to Grades: 7
Unit: 1

Students grow as readers, writers, and thinkers in this middle school course. With engaging literary and informational texts, students learn to think critically, analyze an author's language, and cite evidence to support ideas. Students complete an in-depth study of Jack London's classic novel White Fang and read excerpts from other stories, poetry, and nonfiction. Explicit modeling and ample opportunities for practice help students sharpen their vocabulary, grammar, and listening skills. Students also respond routinely to texts they have read. In extensive, process based writing lessons, students write topical essays in narrative, informative, analytical, and argumentative formats. In this full year course, students develop a mastery of reading, writing, and language arts skills.

English Language Arts 8

Open to Grades: 8
Unit: 1

In this course, students build on their knowledge and blossom as thoughtful readers and clear, effective writers. A balance of literary and informational texts engage students throughout the course in reading critically, analyzing texts, and citing evidence to support claims. Students sharpen their vocabulary, grammar, and listening skills through lessons designed to provide explicit modeling and ample opportunities to practice. Students also routinely write responses to texts they have read, and

use more extensive, process-based lessons to produce full-length essays in narrative, informative, analytical, and argumentative formats. In this full year course,students develop a mastery of reading, writing, and language arts skills.

Mathematics

Mathematics 6

Open to Grades: 6
Unit: 1

This course begins by connecting ratio and rate to multiplication and division, allowing students to use ratio reasoning to solve a wide variety of problems. Students further apply their understanding of multiplication and division to explain the standard procedure for dividing fractions. This course builds upon previous notions of the number system to now include the entire set of rational numbers. Students begin to understand the use of variables as they write, evaluate, and simplify expressions. They use the idea of equality and properties of operations to solve one-step equations and inequalities. In statistics, students explore different graphical ways to display data. They use data displays, measures of center, and measures of variability to summarize data sets. The course concludes with students reasoning about relationships among shapes to determine area, surface area, and volume

Mathematics 7

Open to Grades: 7
Unit: 1

This course begins with an in-depth study of proportional reasoning during which students utilize concrete models such as bar diagrams and tables to increase and develop conceptual understanding of rates, ratios, proportions, and percentages. Students' number fluency and understanding of the rational number system are extended as they perform operations with signed rational numbers embedded in real-world contexts. In statistics, students develop meanings for representative samples, measures of central tendency, variation, and the ideal representation for comparisons of given data sets. Students develop an understanding of both theoretical and experimental probability. Throughout the course, students build fluency in writing expressions and equations that model real-world scenarios. They apply their understanding of inverse operations to solve multi-step equations and inequalities. Students build on their proportional reasoning to solve problems about scale drawings by relating the corresponding lengths between objects. The course concludes with a geometric analysis of angle relationships, area, and volume of both two- and three-dimensional figures.

Mathematics 8

Open to Grades: 8
Unit: 1

The course begins with a unit on input-output relationships that builds a foundation for learning about functions. Students make connections between verbal, numeric, algebraic, and graphical representations of relations and apply this knowledge to create linear functions that can be used to model and solve mathematical and real-world problems. Technology is used to build deeper connections among representations. Students focus on formulating expressions and equations, including modeling an association in bivariate data with a linear equation, and writing and solving linear equations and systems of linear equations. Students develop a deeper understanding of how translations, rotations, reflections, and dilations of distances and angles affect congruency and similarity. Students develop rules of exponents and use them to simplify exponential expressions. Students extend rules of exponents as they perform operations with numbers in scientific notation. Estimating and comparing square roots of non-perfect squares to perfec squares exposes students to irrational numbers and lays the foundation for applications such as the Pythagorean theorem, distance, and volume.

Science

Mathematics 6

Open to Grades: 6-8
Unit: 1

Examining a broad spectrum of the biological sciences, Life Science is a full-year course for middle school students that builds on basic principles of scientific inquiry and translates those skills to more complex, overarching biological themes. The course includes units that help students understand the definitions, forms, and classifications of living organisms and learn to analyze the diversity of each unique group of living organisms. Other units introduce students to the structures and functions of cells, cell theory, and cell reproduction. These larger themes are then applied to other topics, such as genetics, Darwinian theory, and human biology and health. An introduction of ecology draws all of these concepts together to examine the interrelationships that help to maintain life on Earth.

Earth Science

Open to Grades: 6-8
Unit: 1

Students enrolled in this dynamic course explore the scope of Earth sciences, covering everything from basic structure and rock formation to the incredible and volatile forces that have shaped and changed our planet. As climate change and energy conservation become increasingly prevalent in the national discourse, it will be important for

students to understand the concepts and causes of our changing Earth. Earth Science is a two-semester course that provides a solid foundation for understanding the physical characteristics that make the planet Earth unique and examines how these characteristics differ among the planets of our solar system.

Physical Science

Open to Grades: 6-8
Unit: 1

This full-year course focuses on basic concepts in chemistry and physics and encourages exploration of new discoveries in the field of physical science. The course includes an overview of scientific principles and procedures and has students examine the chemical building blocks of our physical world and the composition of matter. Additionally, students explore the properties that affect motion, forces, and energy on Earth. Building on these concepts, the course covers the properties of electricity and magnetism and the effects of these phenomena. As students refine and expand their understanding of physical science, they will apply their knowledge to complete interactive virtual labs that require them to ask questions and create hypotheses. Hands-on wet lab options are also available.

Social Studies

World History

Open to Grades: 6-8
Unit: 1

Providing students with an opportunity to learn the diverse history that has shaped our world, this course delves into the evolution of civilization from the rise of ancient empires through the twenty first century. Middle school students enrolled in this exciting and informative course investigate the development of medieval societies, the effects of the Renaissance and the Reformation, and the progress made during various periods of revolution, industrialization, urbanization, and reform. Over the course of two semesters, students analyze effects of political conflicts and social issues on the continuing development and interdependence among nations in the modern world.

World Geography

Open to Grades: 6-8
Unit: 1

This course offers a broad survey of World geography, including North and South America, the Caribbean, and Europe. It also includes an overview of social studies as an academic discipline. The course examines world political, economic, geographic, and social history from a hybrid regional and chronological point of view. Throughout the course, the student will make connections between geography, politics, and economics, and their impact on

world events and the human progress. The student will enhance her social studies skills by completing activities that teach analysis of primary and secondary sources, reading graphs and maps, organizing information, and more. Lessons are designed to develop the student's ability to read, question, analyze, interpret, and evaluate different forms of information.

U.S. History

Open to Grades: 6-8
Unit: 1

Offering an interactive and comprehensive overview of American history, this course engages and inspires students to learn about the rich and diverse history of America's native peoples, early European colonization and settlement in America, and the creation of a new nation through the American Revolution. Middle school students enrolled in this course will closely examine major changes brought about by the nation's reconstruction, industrialization, urbanization, and progressive reforms and consider the implications each of these events had on the expansion of the United States' global influence through modern times. Over the course of two semesters, interesting course content encourages students to think carefully about the challenges and opportunities facing the United States in the twenty-first century.

Technology

Computer Literacy

Open to Grades: 6
Unit: 1

This is a one semester course designed to provide students with fundamental computing skills. Areas of emphasis include internet use and safety, office productivity applications, keyboarding skills, and system fundamentals. Instructional practices incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to society. The appropriate use of technology is an integral part of this course.

Health and PE

Health and Physical Education 6

Open to Grades: 6
Unit: 1

The Health and Physical Education course will provide the student with the foundation for concepts and skills necessary for lifelong health and physical fitness. In the health portion of the course, the student will be introduced to and assessed on various topics ranging from body systems to proper nutrition and fitness, as well as

understanding what it means to be healthy. The student will also be introduced to skills that can be applied toward healthy behaviors. The physical education portion of the course will offer great freedom as the student will be able to choose a physical education regimen that will fit the student's individual needs. The student will be given a choice of three paths that place emphasis on lifelong activities as well as current fitness trends. Physical education lessons are geared toward a "physically fit" lifestyle that will aid the student in the years to come and ensure a higher quality of life.

Health and Physical Education 7

Open to Grades: 7
Unit: 1

The Health and Physical Education course will guide the student through material that will promote healthy, active lifestyles. Health topics include issues that are relevant to the age group, such as mental and emotional health, conflict resolution, and bullying. The student will also be immersed in the prevention and avoidance of drugs, alcohol, and tobacco. The student will receive the necessary strategies to help avoid the pitfalls of unhealthy and risky behaviors. The physical education portion of the course will offer great freedom as the student will be able to choose a physical education regimen that will fit the student's individual needs. The student will be given a choice of three paths that place emphasis on lifelong activities as well as current fitness trends. Physical education lessons are geared toward a "physically fit" lifestyle that will aid the student in the years to come and ensure a higher quality of life.

Health and Physical Education 8

Open to Grades: 8
Unit: 1

The Health and Physical Education course will introduce the student to vital health concepts and reinforce health skills that promote healthy behaviors. The student will learn the functions and structures of various body systems as well as the care and prevention of disease to these systems. The student will learn about communicable diseases and how to prevent the spread of such diseases. The student will also be able to demonstrate the importance of proper nutrition by planning and analyzing meals and nutritional values. Proper actions in emergencies and safety procedures will also be included. The physical education portion of the course will offer great freedom as the student will be able to choose a physical education regimen that will fit the student's individual needs. The student will be given a choice of three paths that place emphasis on lifelong activities as well as current fitness trends. Physical education lessons are geared toward a "physically fit" lifestyle that will aid the student in the years to come and ensure a higher quality of life.

Electives

Art Appreciation

Open to Grades: 6-8
Unit: 1

This course combines art history, appreciation, and analysis, while engaging students in hands-on creative projects. Lessons introduce major periods and movements in art history while focusing on masterworks and the intellectual, technical, and creative processes behind those works. Studio lessons provide opportunities for drawing, painting, sculpting, and other creative endeavors.

Music Theory

Open to Grades: 6-8
Unit: 1

The student will learn concepts of the construction of music including melody, harmony, rhythm, form and analysis, and ear training at a basic level. This course is designed as a preparatory course for AP music theory. This course is an enrichment course for performance ensembles, and the student must be participating in a school ensemble or have permission of the instructor to register for this class.

Music Appreciation

Open to Grades: 6-8
Unit: 1

Music Appreciation is a streamlined course that introduces students to the history, theory, and genres of music, from the most primitive surviving examples through the classical to the most contemporary in the world at large. The course is offered in a two-semester format: The first semester covers primitive musical forms and classical music. The second semester presents the rich modern traditions, including: jazz, gospel, folk, soul, blues, Latin rhythms, rock and roll, and hip-hop. The course explores the interface of music and social movements and examines how the emergent global society and the Internet are bringing musical forms together in new ways from all around the world. Students complete either a performance practicum or a listening practicum throughout the course. The performance practicum requirement can be met by participation in supervised instrumental or vocal lessons, participation in a church or community choir, community musical performances, or anything that is structured to meet at regular intervals and legitimately provides opportunities for students to build vocal and/or instrumental skills. The listening practicum requires students to listen to a variety of music genres and comment. Parents or guardians will be required to validate their children's regular participation in the chosen performance or listening practicum.

Theatre

Open to Grades: 6-8
Unit: 1

Theatre refers to a live performance of real or imagined events before a live audience, usually on a stage. In this course, we will explore the different aspects of theatre and take a look at significant and common theatrical productions. The theatre is an entertainment product that suits both young and old. It has a broad history, going back even to ancient Egypt. The four basic categories of the theatre are the building, the costumes, the actors, and the special effects. But from Ancient Greece to the Middle Ages to Elizabethan England, the elements in these categories changed as time went by and enthralled the audience more and more. Theatre is a collaborative form of fine art that uses live performers, typically actors or actresses, to present the experience of a real or imagined event before a live audience in a specific place, often a stage.

Web Page Design

Open to Grades: 6-8
Unit: 1

The internet is an amazing tool that helps connect people from across the world. This course is designed to start you on a path toward future studies in web development and design, no matter how little experience or technical knowledge you currently have. The web is a very big place, and if you are the typical internet user, you probably visit several websites every day, whether for business, entertainment or education. But have you ever wondered how these websites actually work? How are they built? How do browsers, computers, and mobile devices interact with the web? What skills are necessary to build a website? In this course, we will see how websites are created, taking a look at HTML and CSS. We will also learn about newer and easier ways to create websites by using systems such as WordPress.

Online Learning Readiness

Open to Grades: 6-8
Unit: 1

This course will familiarize students with the academic skills needed to succeed at the college level and in the online learning environment. Students will be encouraged to develop an attitude of curiosity and inquisitiveness, a capacity for perspective and comparison, and an ability to think rationally and contextually. The course will emphasize students' responsibility for a successful undergraduate education and the importance of being a lifelong learner. Students will also be introduced to policy and procedures of the Institute of Global Culinary Education. In this course project, students are required to select 2 or 3 online learning readiness issues and write a project report which should be between 2000 and 2500 words.

Fitness and Nutrition

Open to Grades: 6-8
Unit: 1

This course introduces students to the fundamentals of the fitness and nutrition field - from healthy menu planning and weight-loss strategies to targeted fitness routines and flexibility training. Students will study the impact of nutrition on wellness by learning nutrients, their functions in the human body, food sources and appropriate intake levels. The relationship of food, its nutrients and other components to the promotion of health and fitness with the emphasis on the human body. This course can also guide students to move toward a better or new career as a fitness trainer or nutrition staff member at a health club. In this course project, students will finish nutritional diary/habits, physical activity diary/habits, nutritional/ fitness prescription and partner work. In the beginning, students should find a partner in the class, then follow the procedures in each week's assignment 2, and complete the project week by week, finishing it at the end of week 5. The project will not only help students to get healthy but also have a deep understanding of some phenomenon.

Chinese 2

Open to Grades: 6-8
Unit: 1

Chinese 2 is the first in a 3-part series that introduces students to Chinese reading, writing, listening, and speaking. This course is designed for High school level students who have had no prior experience with the Chinese language and are interested in learning basic Chinese language as well as culture. In this course, we will be focusing on Lessons 1-4 of the New Practical Chinese Reader Textbook. This course is aimed at building a solid foundation in all aspects: pronunciation (especially tones), basic grammar, syntax, vocabulary, and writing in characters. Students will be able to communicate verbally in mandarin within given situations. A final exam is given after finishing five weeks of class to assess knowledge of these skills and to locate deficiencies.

Chinese 3

Open to Grades: 6-8
Unit: 1
Prerequisite: Chinese 2

Aural comprehension, pronunciation, and speaking exercises facilitate oral communication. Additional vocabulary and grammar are introduced to further develop reading and writing skills. Students expand their capacity to read and write Chinese characters. This course is designed for High school level students who have basic experience with the Chinese language and are interested in learning basic Chinese language as well as culture. Chinese 3 is the second in a 3-part series that introduces students to reading, writing, listening, and speaking in Chinese. In this course, we will be focusing on Lessons 5-9 of the New Practical Chinese Reader Textbook. A final exam is given after finishing five weeks of class to assess knowledge of these skills and to locate deficiencies.

Chinese 4

Open to Grades: 6-8
Unit: 1
Prerequisite: Chinese 2 and 3

Chinese 4 is the final course in a 3-part series that introduces students to reading, writing, listening, and speaking in Chinese. This course provides mastery and expansion of skills acquired by the students in Chinese 3. Specific content includes, but is not limited to, expansions of vocabulary and conversational skills through discussions of selected readings. In this course, we will be focusing on Lessons 10-14 of the New Practical Chinese Reader Textbook. Students will be able to communicate verbally in the Chinese language within given situations. A final exam is given after finishing five weeks of class to assess knowledge of these skills and to locate deficiencies.

Course Descriptions Grade 9-12

English

English 1

Open to Grades: 9
Credit: 1

This course concentrates on the fundamental language skills of reading, writing, conventions of written and oral language, research, and listening/speaking in an effort to build a foundation for student success in advanced high school English classes. Students practice both reading and writing as a process and perform an array of reading strategies as they work to become proficient in understanding and responding appropriately to a variety of texts. Students refine their reading comprehension skills through the study of fiction, literary nonfiction, poetry, drama, and informational text throughout the year. Students write for varied audiences and purposes and work to develop ideas, voice, word choice, fluency, and organization in their writing while applying conventions of the English language. Throughout the year, students develop skills to enhance media literacy.

English Language and Composition 1

Open to Grades: 9-10
Credit: 1

Students learn to understand and analyze complex works by a variety of authors. They explore the richness of language, including syntax, imitation, word choice, and tone. They also learn composition style and process, starting with exploration, planning, and writing. This continues with editing, peer review, rewriting, polishing, and applying what they learn to academic, personal, and

English 2

Open to Grades: 10
Credit: 1

This course emphasizes continuing development of oral language and composition skills. Included within the study are the identification of literary themes and forms, use of effective reading strategies, and development of speaking/listening skills. Students write for varied audiences and purposes and work to apply effective ideas, voice, word choice, fluency, organization, and conventions in their writing. Reading selections for this level include poetry, drama, fiction, literary nonfiction, and informational texts.

English 3

Open to Grades: 11
Credit: 1

This course presents advanced work in composition and reading. Students' practice both reading and writing as a process. The course provides an overview of American literature from the Colonial Period to the Contemporary Period, allowing students to examine samples of traditional, classic, and mufti-ethnic selections that represent this country's cultural diversity. Selections include poetry, drama, fiction, literary nonfiction, and informational texts. As students read, they are asked to focus on comprehension, analysis, and evaluation. As they write for varied audiences and purposes, students work to develop their ideas and apply effective voice, word choice, fluency, logical organization of material, and appropriate conventions of language. In addition to process pieces, students produce in-class, timed writings. The skills of listening/speaking and the enhancement of media literacy are addressed in the fabric of the course.

English Language and Composition 2

Open to Grades: 11-12
Credit: 1

Students learn to understand and analyze complex works by a variety of authors. They explore the richness of language, including syntax, imitation, word choice, and tone. They also learn composition style and process, starting with exploration, planning, and writing. This continues with editing, peer review, rewriting, polishing, and applying what they learn to academic, personal, and professional contexts.

English 4

Open to Grades: 12
Credit: 1

This course continues an emphasis on fundamental reading strategies and composition techniques aligned with college learning outcomes. Selections include fiction, poetry, drama, literary nonfiction, and informational texts from selected British, World, and Contemporary literature. In conjunction with the study of literature is the refinement of composition skills, usage skills, and research skills. Emphasis is placed on students' practice of reading and writing as a process. Opportunities to practice listening/speaking and an emphasis on media literacy are inherent in the course.

Mathematics

Pre-Algebra

Open to Grades: 9
Credit: 1

In this course, students take a broader look at computational and problem-solving skills while learning the language of algebra. Students translate word phrases and sentences into mathematical expressions; analyze geometric figures; solve problems involving percentages, ratios, and proportions; graph different kinds of equations and inequalities; calculate statistical measures and probabilities; apply the Pythagorean theorem, and explain strategies for solving real-world problems. Prerequisites: K12 Middle School Fundamentals of Geometry and Algebra (or equivalent) Note: Students who have already succeeded in K12 Middle School Pre-Algebra should not enroll in this course.

Algebra 1

Open to Grades: 9
Credit: 1
Prerequisite: Pre-Algebra

Algebra 1 connects to earlier work using variables and expressions, equations, tables and graphs to describe relationships between quantities in linear equations and systems of linear equations. Students will contrast exponential and linear functions as they explore exponential models using the familiar tools of tables, graphs and symbols. Finally, they apply these same tools to a study of quadratic functions. Throughout, the connection between functions and equations is made explicit to give students more ways to model and make sense of problems. This course will also focus on student development of the mathematical practices: persevering, reasoning abstractly and quantitatively, constructing arguments, modeling with mathematics, using appropriate tools strategically, attending to precision, looking for and using structure and regularity in repeated reasoning.

Geometry

Open to Grades: 9-11
Credit: 1
Prerequisite: Algebra 1

Geometry balances an investigative approach to geometry with an emphasis on helping students develop the ability to reason deductively. The text, Discovering Geometry, gives the course an effective and engaging framework for learning mathematics. Students are introduced to the skills and concepts of geometry through real-world examples and using mini-investigations that lead students through each step of the reasoning process they must master. Students make their own conjectures and must justify them through proofs and real life examples. Algebra skills are reintroduced and students have ample opportunity to apply their knowledge of algebra to the study of geometry. Students are asked to complete exercises and explorations to offer them ample practice, demonstrating their mastery

of the course. The students are assessed with Quizzes and Chapter Tests with a substantial review before these assessments.

Algebra 2

Open to Grades: 11
Credit: 1
Prerequisite: Algebra 1, Geometry

Students develop an organized approach to solving a variety of higher-level algebraic problems utilizing the symbols, methodologies, and language necessary to properly communicate and analyze the algebraic concepts covered in this course. In addition, students will master conventional systems while strengthening their intuitive development with problem-solving and critical thinking skills. The focus is on polynomial, rational, and radical relationships, trigonometric functions, modeling with functions, and inferences and conclusions from data. The course builds upon linear relationships, leading to quadratic, polynomial, exponential, logarithmic, and rational functions. The algebraic concepts are applied to conic sections, trigonometric functions and identities, and probability and statistics with an emphasis on binomial and normal distributions. Students are tested periodically and are encouraged to review material on a regular basis to succeed with mastery of the content.

Pre-Calculus

Open to Grades: 11
Credit: 1
Prerequisite: Algebra 1, Geometry, and Algebra 2

Pre-calculus weaves together previous study of algebra, geometry, and functions into a preparatory course for calculus. The course focuses on the mastery of critical skills and exposure to new skills necessary for success in subsequent math courses. Topics include linear, quadratic, exponential, logarithmic, radical, polynomial, and rational functions; systems of equations; and conic sections in the first semester. The second semester covers trigonometric ratios and functions; inverse trigonometric functions; applications of trigonometry, including vectors and laws of cosine and sine; polar functions and notation; and arithmetic of complex numbers.

Trigonometry

Open to Grades: 11
Credit: 1
Prerequisite: Algebra 1, Geometry, and Algebra 2

This course provides a thorough grounding in the discipline's fundamentals, including right triangle trigonometry, the six trigonometric functions, radian measure, graphing and inverse functions, identities, equations, complex numbers, polar coordinates, and logarithms.

Probability

Open to Grades: 9-12
Credit: 1
Prerequisite: Algebra 2 (or equivalent)

Probability is the study of the likelihood of an event happening. Probability theory is useful in the biological, physical, actuarial, management and computer sciences, in economics, engineering, and operations research. It helps in modeling complex systems and in decision-making when there is uncertainty. It can be used to prove theorems in other mathematical fields (such as analysis, number theory, game theory, graph theory, quantum theory and communications theory). As more variables are introduced we can determine the relative likelihood of an event. This course is designed to introduce students to various topics in probability and uncertainty that they will encounter. The concepts are illustrated with actual examples. Exercises are designed to encourage the student to begin thinking about probability and uncertainty.

Statistics

Open to Grades: 9-12
Credit: 1
Prerequisite: Algebra 2 (or equivalent)

This course fulfills one semester of the requirement for a third year of mathematics pending a meeting with the student, parent and school representative. Students in this course will learn to accurately describe and apply concepts and procedures from probability and statistics to analyze data. Statisticians understand their field as a process for making inferences about population parameters based on a random sample of that population, recognize the purposes of and differences among sample surveys, experiments, and observational studies, and analyze decisions and strategies using probability concepts. Students taking this course might be interested in career options that include work in the health and medical fields (animal health, epidemiology, public health), business and industry (agriculture, finance, insurance, marketing), or government (justice statistics, census, ecology, national defense).

Single Variable Calculus

Open to Grades: 9-12
Credit: 1

Single Variable Calculus focuses on the summation of infinitesimal distances for one dimensional functions. The course is roughly split into two main topics, differentiation and integration. In this unit, you'll learn the various rules of single variable calculus, such as: limits, continuity, derivatives (product rule, quotient rule, chain rule), implicit differentiation, higher order, derivatives. Furthermore, you will also learn how to grasp the practical application of single variable calculus.

Multivariable Calculus

Open to Grades: 9-12
Credit: 1

Multivariable calculus is a general term for calculus involving multivariate functions. Compared to a single variable calculus with only one variable, the differential calculus contains at least two variables in the derivation and integration of functions. For example, when differential multivariate functions are applied, partial differential and total differential are induced, and multiple integrals are also involved in the integral calculation of multivariate functions. Multivariate calculus is the continuation of Single Variable Calculus. The course is roughly split into two main topics, differentiation and integration. We will see how previously learned concepts can be abstracted to account for multiple dimensions, taking note of the similarities and differences along the way.

Science

Life Science

Open to Grades: 9
Credit: 1

Life Science covers a broad range of subject matter. Students study the scientific method; properties of light; cell structure, function, processes, and energy; genetics and heredity; agricultural technology and genetic engineering; evolution and classification of organisms; geology, plate tectonics, seismology, and geotechnical engineering; viruses, bacteria, protist, and fungi; the structure and function of plants; fossil fuels; invertebrates; vertebrates; and the structure and function of the human body, including the skeletal and muscular systems, circulation and respiration, the nervous system, the endocrine system, human reproduction, and the long-term effects of drug and alcohol abuse. The course contains a combination of reading, review questions, research, experiments, projects, and tests. It is a challenging and thorough course which utilizes a beautifully illustrated and well-organized textbook.

Physical Science

Open to Grades: 9
Credit: 1
Prerequisite: K12 Middle School Physical Science (or equivalent)

In this course, students will learn about physical science, which encompasses a broad range of phenomena, generally focusing on nonliving things. How does a ball bounce? Is yeast alive or not? Which way do comet tails point? Can you make a shadow disappear? What happens when you breathe on a mirror? Can water and soil mix? What makes an object move in a circle? These are only a few questions that students will learn the answers to.

Biology

Open to Grades: 10
Credit: 1
Prerequisite: K12 Middle School Physical Science (or equivalent)

Over two semesters students will explore many topics related to life and living things. During the first semester the focus will be on characteristics of life, inquiry, biochemistry, cells, and how they maintain homeostasis and acquire and use energy. Second semester will focus on cell reproduction, DNA, heredity, genetics, and evolution and ecology.

Chemistry

Open to Grades: 11
Credit: 1
Prerequisite: Algebra 1

Chemistry is an experimental science that focuses on the composition and structure of substances, the transformation they undergo, and the energy that is released and absorbed during these processes. This course will focus on the basic principles of inorganic chemistry within the themes of solids, liquids, and gases. Topics include scientific method, atomic theory, stoichiometry, chemical equations and formulas, periodic law, and kinetics.

Physics

Open to Grades: 9-12
Credit: 1
Prerequisite: Algebra 1 and 2

This course provides a comprehensive survey of all key areas: physical systems, measurement, kinematics, dynamics, momentum, energy, thermodynamics, waves, electricity, and magnetism, and introduces students to modern physics topics such as quantum theory and the atomic nucleus. The course gives students a solid basis to move on to more advanced courses later in their academic careers.

Earth Science

Open to Grades: 9-12
Credit: 1
Prerequisite: K12 Middle School Physical Science (or equivalent)

Students learn the critical importance of scientific developments in today's world through gaining basic knowledge of Earth science. Topics include early Earth, geological history, fossils, minerals and rocks, plate tectonics, earthquakes, volcanoes, the carbon and nitrogen cycles, the atmosphere, the ozone layer, the greenhouse effect, weather, climate, air and ocean circulation patterns, the solar system, our galaxy and beyond. Historical achievements in the field of Earth science and consideration of potential future developments contribute to students' learning and personal development. Students have the opportunity to engage in independent research on subjects of students' interest. The course includes a wealth of informative and dynamic websites.

Environmental Science

Open to Grades: 9-12
Credit: 1

Explore historical and current global environmental issues such as climate change, water quality, and resource distribution. Combine ideas and information from natural sciences, biology, chemistry, and geology as well as social sciences such as ethics and politics. Analyze group and

individual impacts on the environment while focusing on sustainable solutions. Leadership and 21st century skill development are integral components of this class.

Natural Disasters

Open to Grades: 9-12
Credit: 1

A natural disaster is an event with a natural, as opposed to human, causing that results in large-scale loss of life or damage to property. It could be related to weather, geology, biology or even factors outside the Earth. Examples are earthquakes, hurricanes, droughts and flooding. Disease epidemics are sometimes considered natural disasters, but may be put into a different category. In some cases, natural and human factors may combine to produce a disaster. We will explore the formation of each disaster and its impact on life on Earth. The course will cover the topics described above, but with particular emphasis on natural disasters and their impacts on humans and the environment such as water, soil, and air. The goal of the course is to teach students at a minimum to recognize and describe a broad range geological processes that are involved in natural disasters, including the following: plate tectonics, earthquakes, volcanic eruptions, landslides, flooding, extinctions, space object impacts, and the interrelationship with human societies. The student will come away from the course with the ability to identify current events in the context of natural disasters.

Anatomy

Open to Grades: 9-12
Credit: 1
Prerequisite: Biology

Astronomy is an introduction to our physical universe. Topics studied include: techniques and tools for studying space, star properties, birth and death of a star, galaxy formation and types, our sun, solar system mechanics, and a general overview of all types of objects in the solar system. Skills in star and constellation identification will be developed as will research techniques both in the field and in the classroom.

Social Studies

World History

Open to Grades: 9-10

Credit: 1

Prerequisite: K12 Middle School American History A, World History A or B

In this course students will study major themes in world history from the late 1400s to the present including exploration, colonialism, imperialism, revolution, international conflict, and challenges to human rights. Students will analyze current events for similarities and connections to world history. Reasoning, research and group process skills will be applied to the content of the course.

World Geography

Open to Grades: 10

Credit: 1

Prerequisite: World History

In this required course, students analyze the relationships between people, places, and environments. Students use problem-solving and decision-making skills to ask and answer geographic questions. A significant portion of the course will center around physical processes, places, and regions, the environment, the political, economic and social processes that shape cultural patterns, human systems such as population distribution and urbanization patterns, and the economic conditions which have led to and reinforced the developed and developing world.

U.S. History

Open to Grades: 11

Credit: 1

Prerequisite: K12 Middle School Intermediate World History B or World History

In this course students will study the history of the U.S. focusing on the 20th century. Major topics include a review of the foundation of the nation, the emergence of the United States as a world power, the Progressive Era, the Great Depression and New Deal, World War II, the Cold War, and civil rights movements in the latter half of the 20th century. Students will analyze current events for similarities and connections to United States history. Reasoning, research, and group process skills will be applied to the content of the course. Language development is integrated with course content.

U.S. Government

Open to Grades: 9-12

Credit: 1

Prerequisite: U.S. History

This course uses the perspective of political institutions to explore government history, organization, and functions. Students encounter the political culture of our country from the Declaration of Independence to the present day, gaining insight into the challenges faced by presidents, members of Congress, and other political participants. The course also covers the roles of political parties, interest groups, the media, and the Supreme Court. Students learn to use primary historical documents as evidence in evaluating past events and government functions.

Economics

Open to Grades: 9-12
Credit: 1

Students are introduced to the basics of economic principles, and learn how to think like economists. They explore different economic systems, including the American free enterprise system, analyze and interpret data, and consider economic applications in today's world. From economics in the world of business, money, banking, and finance, students see how economics is applied both domestically and globally. Students take diagnostic tests that assess their current knowledge and generate individualized study plans, so students can focus on topics that need review. Audio readings and vocabulary lists in English and Spanish support reading comprehension.

Psychology

Open to Grades: 9-12
Credit: 1

In this course, students will investigate the reasons humans behave as they do and learn ways different psychologists describe, explain, predict and control human behavior. Major topics include: the background of psychology, social psychology, learning, gender, personality, disorders and therapy. Reasoning, research and group process skills will be applied to the content of the course.

Sociology

Open to Grades: 9-12
Credit: 1

In this course, students will examine the variety of social and human forces that influence their lives. Topics of inquiry include the mass media, families, human relationships, deviance, and social conformity. Reasoning, research, and group process skills will be applied to the content of the course.

Physical Education

Physical Education I

Open to Grades: 9-12
Credit: 1

This course introduces students to research the benefits of physical activity, and the techniques, principles, and guidelines of exercise to keep them safe and healthy. Students participate in weekly physical activity throughout the courses, such as to join outside of the school day in interscholastic athletics or on a drill team, marching band, dance group, or cheerleading squad. Students will also learn about a variety of sports, and do an in-depth study of hiking, orienteering, golf, and beach volleyball, and practice specific skills related to many of these sports. The course allows for customized exercise requirements based on a student's situation. Besides, students learn the necessary skills and information needed to begin a personalized exercise program and maintain an active and healthy lifestyle.

Physical Education II

Open to Grades: 9-12
Credit: 1

This course introduces students to the fundamentals of the fitness and nutrition field - from healthy menu planning and weight-loss strategies to targeted fitness routines and flexibility training. Students will learn the components of fitness, the FITT (frequency, intensity, time, and type) principles, benefits of fitness, and safety and technique, and also study the impact of nutrition on wellness by learning nutrients, their functions in the human body, food sources and appropriate intake levels. Students conduct fitness assessments, set goals, and participate in the weekly physical activity. This course can also guide students to move toward a better or new career as a fitness trainer or nutrition staff member at a health club.

World Languages

Chinese 2

Open to Grades: 9-12
Credit: 1

Chinese 2 is the first in a 3-part series that introduces students to Chinese reading, writing, listening, and speaking. This course is designed for High school level students who have had no prior experience with the Chinese language and are interested in learning basic Chinese language as well as culture. In this course, we will be focusing on Lessons 1-4 of the New Practical Chinese Reader Textbook. This course is aimed at building a solid foundation in all aspects: pronunciation (especially tones), basic grammar, syntax, vocabulary, and writing in characters. Students will be able to communicate

verbally in the mandarin within given situations. A final exam is given after finishing five weeks of class to assess knowledge of these skills and to locate deficiencies.

Chinese 3

Open to Grades: 9-12
Credit: 1
Prerequisite: Chinese 2

Aural comprehension, pronunciation, and speaking exercises facilitate oral communication. Additional vocabulary and grammar are introduced to further develop reading and writing skills. Students expand their capacity to read and write Chinese characters. This course is designed for High school level students who have basic experience with the Chinese language and are interested in learning basic Chinese language as well as culture. Chinese 3 is the second in a 3-part series that introduces students to reading, writing, listening, and speaking in Chinese. In this course, we will be focusing on Lessons 5-9 of the New Practical Chinese Reader Textbook. A final exam is given after finishing five weeks of class to assess knowledge of these skills and to locate deficiencies.

Chinese 4

Open to Grades: 9-12
Credit: 1
Prerequisite: Chinese 2 and 3

Chinese 4 is the final course in a 3-part series that introduces students to reading, writing, listening, and speaking in Chinese. This course provides mastery and expansion of skills acquired by the students in Chinese 3. Specific content includes, but is not limited to, expansions of vocabulary and conversational skills through discussions of selected readings. In this course, we will be focusing on Lessons 10-14 of the New Practical Chinese Reader Textbook. Students will be able to communicate verbally in the Chinese language within given situations. A final exam is given after finishing five weeks of class to assess knowledge of these skills and to locate deficiencies.

Chinese 5

Open to Grades: 9-12
Credit: 1
Prerequisite: Chinese 2, 3, and 4

Students need to study this AP Prep Chinese course with a certain degree of Chinese Foundation. Set in their daily environment, the native speakers help students through different daily scenes and give them the necessary skills to read, write, and speak Chinese. In this course, students learn the basic Chinese language. They will have a certain knowledge of the Chinese language and Chinese culture. Students will be able to introduce foreign friends to the historical background and current situations of domestic China. Not only will they learn traditional and simplified Chinese for reading and writing, but they can also learn about traveling in China.

Chinese 6

Open to Grades: 9-12
Credit: 1
Prerequisite: Chinese 2, 3, 4, and 5

Students who study this AP Prep Chinese course will obtain a certain degree of Chinese Foundation. Set in their everyday environment, the native speakers take students through different daily scenarios and give them the necessary skills to read, write, and speak Chinese. In this course, students learn the basics of Chinese language. They will have a certain knowledge of the Chinese language and culture. Students will be able to introduce foreign friends to the historical background and current situations of domestic China. Not only will they learn traditional and simplified Chinese for reading and writing, but they can also learn about tourism in China.

HSK Beginning 1

Open to Grades: 9-12
Credit: 1

Test takers who are able to pass the HSK (Level I) can understand and use very simple Chinese words and phrases, meet basic needs for communication and possess the ability to further their Chinese language studies.

HSK Beginnig 2

Open to Grades: 9-12
Credit: 1
Prerequisite: HSK Beginning 1

Test takers who are able to pass the HSK (Level II) have an excellent grasp of basic Chinese and can communicate in simple and routine tasks requiring a simple and direct exchange of information on familiar and routine matters.

HSK Intermediate 3

Open to Grades: 9-12
Credit: 1
Prerequisite: HSK Beginning 1 and 2

Test takers who are able to pass the HSK (Level III) can communicate in Chinese at a basic level in their daily, academic and professional lives. They can manage most communication in Chinese when travelling in China.

HSK Intermediate 4

Open to Grades: 9-12
Credit: 1
Prerequisite: HSK Beginning 1 and 2, HSK Intermediate 3

Test takers who are able to pass the HSK (Level IV) can converse in Chinese on a wide range of topics and are able to communicate fluently with native Chinese speakers.

HSK Advanced 5

Open to Grades: 9-12
Credit: 1
Prerequisite: HSK Beginning 1 and 2, and HSK Intermediate 3 and 4

Test takers who are able to pass the HSK (Level V) can read Chinese newspapers and magazines, enjoy Chinese films and plays, and give a full-length speech in Chinese.

HSK Advanced 6

Open to Grades: 9-12
Credit: 1
Prerequisite: HSK Beginning 1 and 2, HSK Intermediate 3 and 4, and HSK Advanced 5

Test takers who are able to pass the HSK (Level VI) can easily comprehend written and spoken information in Chinese and can effectively express themselves in Chinese, both orally and on paper.

Electives

Art Appreciation

Open to Grades: 9-12
Credit: 1

This course combines art history, appreciation, and analysis, while engaging students in hands-on creative projects. Lessons introduce major periods and movements in art history while focusing on masterworks and the intellectual, technical, and creative processes behind those works. Studio lessons provide opportunities for drawing, painting, sculpting, and other creative endeavors.

Music Theory

Open to Grades: 9-12
Credit: 1

The student will learn concepts of the construction of music including melody, harmony, rhythm, form and analysis, and ear training at a basic level. This course is designed as a preparatory course for AP music theory. This course is an enrichment course for performance ensembles, and the student must be participating in a school ensemble or have permission of the instructor to register for this class.

Music Appreciation

Open to Grades: 9-12
Credit: 1

Music Appreciation is a streamlined course that introduces students to the history, theory, and genres of music, from the most primitive surviving examples through the classical to the most contemporary in the world at large. The course is offered in a two-semester format: The first semester covers primitive musical forms and classical music. The second semester presents the rich modern traditions, including: jazz, gospel, folk, soul, blues, Latin rhythms, rock and roll, and hip-hop. The course explores the interface of music and social movements and examines how the emergent global society and the Internet are bringing musical forms together in new ways from all around the world. Students complete either a performance practicum or a listening practicum throughout the course. The performance practicum requirement can be met by participation in supervised instrumental or vocal lessons, participation in a church or community choir, community musical performances, or anything that is structured to meet at regular intervals and

legitimately provides opportunities for students to build vocal and/or instrumental skills. The listening practicum requires students to listen to a variety of music genres and comment. Parents or guardians will be required to validate their children's regular participation in the chosen performance or listening practicum.

Theatre

Open to Grades: 9-12
Credit: 1

Theatre refers to a live performance of real or imagined events before a live audience, usually on a stage. In this course, we will explore the different aspects of theatre and take a look at significant and common theatrical productions. The theatre is an entertainment product that suits both young and old. It has a broad history, going back even to ancient Egypt. The four basic categories of the theatre are the building, the costumes, the actors, and the special effects. But from Ancient Greece to the Middle Ages to Elizabethan England, the elements in these categories changed as time went by and enthralled the audience more and more. Theatre is a collaborative form of fine art that uses live performers, typically actors or actresses, to present the experience of a real or imagined event before a live audience in a specific place, often a stage.

Astronomy

Open to Grades: 9-12
Credit: 1

Astronomy is an introduction to our physical universe. Topics studied include: techniques and tools for studying space, star properties, birth and death of a star, galaxy formation and types, our sun, solar system mechanics, and a general overview of all types of objects in the solar system. Skills in star and constellation identification will be developed as will research techniques both in the field and in the classroom.

Artificial Intelligence

Open to Grades: 9-12
Credit: 1

Artificial Intelligence is the study of machines perceiving their environment and taking action to maximize the chance of success for some goal. In this course, we'll take a brief look at solving problems, types of learning, how machines perceive the environment, and the ethics of AI. Artificial intelligence (AI) is an area of computer science that emphasizes the creation of intelligent machines that work and react like humans.

Artificial intelligence (AI, also machine intelligence, MI) is intelligence exhibited by machines, rather than humans or other animals (natural intelligence, NI). In computer science, the field of AI research defines itself as the study of "intelligent agents" : any device that perceives its environment and takes actions that maximize its chance

of success at some goal. Colloquially, the term "artificial intelligence" is applied when a machine mimics "cognitive" functions that humans associate with other human minds, such as "learning" and "problem-solving."

Web Page Design

Open to Grades: 9-12
Credit: 1

The internet is an amazing tool that helps connect people from across the world. This course is designed to start you on a path toward future studies in web development and design, no matter how little experience or technical knowledge you currently have. The web is a very big place, and if you are the typical internet user, you probably visit several websites every day, whether for business, entertainment or education. But have you ever wondered how these websites actually work? How are they built? How do browsers, computers, and mobile devices interact with the web? What skills are necessary to build a website? In this course, we will see how websites are created, taking a look at HTML and CSS. We will also learn about newer and easier ways to create websites by using systems such as WordPress.

Computer Science (C/C++)

Open to Grades: 9-12
Credit: 1

C is a general programming language that can be found in operating systems, supercomputers, and embedded systems. C++ is influenced by C and is also a general programming language that facilitates object-oriented programming. In this course, we will learn C/C++ syntax and the different data structures. C++ was developed by Bjarne Stroustrup in the late 1970's mainly in an effort to improve on the C language. Naturally, a programmer coming from the language of C will notice many similarities between C and C++. However, C++ offers potent tools such as inheritance, operator overloading, and object-oriented programming. C++ has become one of the most popular languages to learn, and because other languages have been influenced by C++ it is an ideal language, to begin with as a first-time programmer. Students will learn the syntax, comments, data types, characters, strings, integers, floats, booleans and how to program in C/C++ write simple functions and many other topics. These topics would help students in solving problems in daily life.

Computer Science (Java)

Open to Grades: 9-12
Credit: 1

Java is a programming language and computing platform first released by Sun Microsystems in 1995. Java is used in a wide variety of computing platforms from embedded devices and mobile phones to enterprise servers and supercomputers. It is often used for object-

oriented programming and has a similar syntax as C/C++. If you want to build applications for mobile devices, desktop computers, or the web, you need to know Java. This course provides the foundation for learning Java SE (Standard Edition), so you can build your first apps or start exploring the language on your own.

Computer Science (Python)

Open to Grades: 9-12
Credit: 1

Python is a popular, general-purpose, multi-paradigm, open-source, scripting language. It is designed to emphasize code readability – has a clean syntax with high-level data types. It is suited for interactive work and quick prototyping, suitable for projects ranging from small scripts to large systems. Python has a large number of available and well-written modules for everything from abstract syntax trees to ZIP file manipulation. Its ecosystem features an extensive set of tools including a JIT compiler and fancy IDE's. Python is a language with a simple syntax and a powerful set of libraries. It is an interpreted language, with a rich programming environment, including a robust debugger and profiler. While it is easy for beginners to learn, it is widely used in many scientific areas for data exploration. This course is an introduction to the Python programming language for students. Our objective is to help students learn to use the Python programming language to solve problems of interest to them. By the end of the course, students will have gained a fundamental understanding of programming in Python by creating a variety of scripts and applications for the Web and for systems development.

Baking Ingredients and Technology

Open to Grades: 9-12
Credit: 1

This course introduces students to the range of baking and pastry ingredients in original, modified, and prepared forms as well as the theory and operation of large and small equipment used in bakeries and pastry shops. Students will learn the different types of flours, sugars, and yeast, and how the interactions of these ingredients affect the outcome in leavened, unleavened, and laminated products. In addition, students will learn to identify and select quality grains, dairy products, baking spices, flours, chocolates, fats, and oils used in the baking field. Topics covered include the costs, the latest mixing techniques, cost-effective production methods, advantages, disadvantages, and operational requirements of the various equipment.

Business Finance

Open to Grades: 9-12
Credit: 1

This course introduces students to the fundamentals of business finance. The course requires an understanding of mathematics as well as economic concepts and accounting principles. The course is corporate-oriented with emphasis on practical applications and problem-solving techniques. The primary objective is to provide the student with the tools to understand and solve the basic financial problems confronting business today. This course is a rigorous introduction to the study of the basic principles of finance and their application to the usual financial issues and decision-making of business enterprises. This is a very important course for your careers. The main objective of this course is for the student to obtain at least a good working knowledge of the topics stated in the tentative course outline below for use in your future courses and for your careers.

Catering Management

Open to Grades: 9-12
Credit: 1

This course introduces to students the fundamentals of catering, special events, and sales in the hospitality industry. It is a project which requires significant creativity and independent work. Students will learn the various catering disciplines and the critical aspects of management involved in running a catering business like how to get the appropriate licenses and permits, what kind of kitchen you need, basic food safety practices, party planning, cooking for a crowd, planning meals, dealing with customers, understanding how to price your services, and move the food safely from one location to another. Students also discuss topics such as contracts, checklists, legal considerations, staffing and training, food production, and sanitation. In this course project, students will find a hotel that really inspires themselves, and tries to introduce the hotel, the more detailed, the better.

Worldwide Culinary Cultures

Open to Grades: 9-12
Credit: 1

This course will introduce the culinary cultures worldwide and explore cuisines with a focus on the geographic, historic, cultural, religious, and economic influences that shape food availability and consumption. Topics include major regional foodstuffs, diet, dining out, and religious holidays, and celebrations. Students will examine how diversity shapes cultural food patterns and learn about culinary cultures worldwide. In this course project, students are required to select 2 or 3 worldwide culinary cultures issues and write a project report which should be between 2000 and 2500 words.

Ethical and Legal Issues in Business

Open to Grades: 9-12
Credit: 1

This course introduces students' modern ethical standards as they relate to the law, social responsibility, and to criminal and civil liability for businesses. Students will explore various ethical standards and determine if and why adherence to certain ethical principles can work to benefit employers, employees, the community and a company's reputation - and perhaps help avert costly litigation as well. Students will learn ethical behavior, and be taught to develop the ability to identify, evaluate, and discuss critical ethical and legal issues that affect everyday business practice. Topics covered include criminal and civil liability grounded in contract, tort, products liability, and intellectual property law, and current events involving all issues of modern business ethics. In this course project, students are required to select 2 or 3 ethical and legal issues in business issues and write a project report which should be between 2000 and 2500 words.

International Cuisine

Open to Grades: 9-12
Credit: 1

This course will introduce the students to the basics of international cuisine and give students the opportunity to learn about other countries and cuisines from around the world. The course will focus on the cuisine of the five different countries: America, Mexico, France, Italy, and China. The study of classical cooking skills associated with the preparation and service of international and ethnic cuisines. Topics include menu planning, menu research, authentic reproduction of ethnic menus. Students will learn about the culture, history, and origin of different food groups and practice flavor profiling and development. In this course project, students will work together and choose any kind of cuisine, Chinese, Korean, Indian, Japanese, Mexico, or others. Then buy one typical dish of your chosen cuisine, taste it, and write a report on this.

Introduction to Hospitality

Open to Grades: 9-12
Credit: 1

This course introduces students to the elements of the Hospitality industry, its growth and development, key industry segments (travel, hotel, meeting, event planning, restaurant, managed services, and recreation) and distinguishing characteristics, trends, and current concerns. Students are introduced to career opportunities and the employability skills needed to succeed in specific hospitality fields. In this course project, students will write a paper about hospitality.

Principles of Marketing

Open to Grades: 9-12
Credit: 1

This course introduces students to the fundamental principles, methods, and procedures in modern marketing: planning, pricing, distribution, and promotion. The basic principles of marketing apply to both for-profit and not-for-profit organizations. Topics include creating customer value and satisfaction, strategic planning, marketing process and environment, research and information systems, consumer markets and consumer buyer behavior, business markets and business buyer behavior, segmentation, product and services strategy, new product development and product life-cycle strategies, pricing, communications, direct and online marketing, and social responsibility and marketing ethics. In this course project, students are required to do a research on Marketing in a specific perspective, and then present the study result in the paper.

Online Learning Readiness

Open to Grades: 9-12
Credit: 1

This course will familiarize students with the academic skills needed to succeed at the college level and in the online learning environment. Students will be encouraged to develop an attitude of curiosity and inquisitiveness, a capacity for perspective and comparison, and an ability to think rationally and contextually. The course will emphasize students' responsibility for a successful undergraduate education and the importance of being a lifelong learner. Students will also be introduced to policy and procedures of the Institute of Global Culinary Education. In this course project, students are required to select 2 or 3 online learning readiness issues and write a project report which should be between 2000 and 2500 words.

Risk Assessment and Prevention

Open to Grades: 9-12
Credit: 1

This course introduces students to the fundamentals of risk management and the process of identifying, assessing, and prioritizing risks. It will teach students how to accurately assess the consequences of uncertain events and to reduce and control the likelihood of such occurrences. Students will be advised to approach this course from the perspective of a business manager and learn the basics of the fundamental risk management processes, including identifying, assessing, measuring, and evaluating alternative ways to mitigate risks. In this course project, students are required to do a research on Risk Assessment and Prevention in a specific perspective, and then present the study result in the paper.

Safety and Sanitation

Open to Grades: 9-12
Credit: 1

Having a good sanitation and safety program is vital to any food service operation, big or small. This is a course that can help you understand different aspects of food safety and sanitation. It will teach you different programs that can be brought into effect within your operation. From individual cleanliness guidelines that are applicable to everyone within the sanitation and safety operation, to the imperative role the manager plays in the operation, this free online course will quickly ensure that your food service operation will have a reputation for good cleanliness and sanitation. This course will teach you what to look out for when purchasing and receiving foods from an outside supplier, how to store food in the correct environment and how to prepare foods hygienically. Learn how to prevent and avoid accidents such as burns or cuts, and food borne illnesses by learning how they are caused and how to prevent it. This online course will be of great interest not only to a person who wishes to start their own food service operation or who are already working in one but to anyone who wants to know more about preparing food in a sanitary manner. In this course project, students will find a hotel that really excites themselves, and tries to introduce the hotel, the more detailed, the better.

Social Event Planning

Open to Grades: 9-12
Credit: 1

This course is designed for students who want to develop skills and knowledge appropriate for social event planning, including special parties and celebrations. The course introduces students how to source suppliers and negotiate and award contracts for an event. It also guides students how to start their own event planning service. Topics include contract negotiation, food and beverage planning, site selection, financial management, event promotion and social media marketing. In this course project, students will work together to write a proposal to appeal to Mr. Spencer. That's the first big step for planning an event, take it seriously even if Mr. Spencer does not exist.

Accounting

Open to Grades: 10-12
Credit: 1

Through this course, students gain a foundation in the skills needed for college accounting courses, office work, and managing their own small businesses. This introduction to accounting gives students who have never had prior accounting training an overview of the three forms of accounting: financial, cost, and management accounting. The course helps build an appreciation for the role of accounting in managing a profitable business. Instructional material covers the basic concepts, conventions, and rules of the double entry system and includes techniques for analyzing ratios from a balance sheet. The concept of ethics, integrity, confidentiality, and rigor are woven through all the units.

Fitness and Nutrition

Open to Grades: 10-12
Credit: 1

This course introduces students to the fundamentals of the fitness and nutrition field - from healthy menu planning and weight-loss strategies to targeted fitness routines and flexibility training. Students will study the impact of nutrition on wellness by learning nutrients, their functions in the human body, food sources and appropriate intake levels. The relationship of food, its nutrients and other components to the promotion of health and fitness with the emphasis on the human body. This course can also guide students to move toward a better or new career as a fitness trainer or nutrition staff member at a health club. In this course project, students will finish nutritional diary/habits, physical activity diary/habits, nutritional/ fitness prescription and partner work. In the beginning, students should find a partner in the class, then follow the procedures in each week's assignment 2, and complete the project week by week, finish it at the end of week 5. The project will not only help students to get healthy but also have a deep understanding of some phenomenon.

English as a Second Language (ESL)

ESL Level 1

Open to Grades: 9-12
Credit: 0

This course is for students with little or no background in English, and it will be focused on four key ESL skills: reading, writing, listening and speaking.

- Reading: Developing basic vocabulary
- Writing: Developing basic grammar
- Listening and Speaking: Building and refining fundamental conversational skills, pronunciation

ESL Level 2

Open to Grades: 9-12
Credit: 0

This course is for students with basic reading, writing, listening and speaking skills in English, and it will be focused on four key ESL skills: reading, writing, listening and speaking.

- Reading: Developing vocabulary
- Writing: Developing grammar
- Listening and Speaking: Building and refining fundamental conversational skills, pronunciation

ESL Level 3

Open to Grades: 9-12
Credit: 0

- Reading: Improving reading comprehension
- Writing: Studying increasingly complex grammatical structures
- Listening and Speaking: Developing conversational skills

- Reading: Improving reading comprehension
- Writing: Studying increasingly complex grammatical structures
- Listening and Speaking: Developing conversational skills

ESL Level 4

Open to Grades: 9-12
Credit: 0

This course is for students with intermediate English skills, and it will be focused on four key ESL skills: reading, writing, listening and speaking.

- Reading: Building on reading comprehension
- Writing: Developing writing skills and studying complex grammatical structures
- Listening and Speaking: Refining intermediate conversational skills

ESL Level 5

Open to Grades: 9-12
Credit: 0

This course is for students with intermediate proficiency in English, and it will be focused on four key ESL skills: reading, writing, listening and speaking.

- Reading: Honing reading comprehension skills
- Writing: Learning paragraph composition and basic essay structure
- Listening and Speaking: Developing speaking and listening skills

ESL Level 6

Open to Grades: /
Credit: 0

This course is for students with advanced skills in reading, writing, listening and speaking, and it will be focused on four key ESL skills: reading, writing, listening and speaking. Reading: Reading increasingly complex academic texts

- Reading: Reading increasingly complex academic texts
- Writing: Developing essay writing skills
- Listening and Speaking: Participating in discussions, delivering oral presentations and learning to communicate with fluency on a wide range of topics

Beginning Reading and Writing

Open to Grades: 9-12
Credit: 0
Elective Courses for ESL Level 1 – 2

This is a beginning-level reading and writing course in which students read various forms of high-interest writings and develop their writing. Through various activities and tasks, students develop their reading fluency, accuracy, and comprehension; students begin to develop basic compositional writing skills and improve their vocabulary.

Introduction to Reading

Open to Grades: 9-12
Credit: 0
Elective Courses for ESL Level 1 – 2

This is a beginning-level reading course in which students read various forms of high-interest writings. Through various activities and tasks, students develop their reading comprehension skills, fluency and accuracy.

Beginning Listening and Speaking

Open to Grades: 9-12
Credit: 0
Elective Courses for ESL
Level 1 – 2

This is a listening and speaking course designed to develop oral communication skills and build the confidence of beginning–level students. Gains toward fluency are developed through a careful balance of activities that teach students to learn to listen for main ideas, to listen for details, and to make inferences.

Beginning Listening Skills and Conversation

Open to Grades: 9-12
Credit: 0
Elective Courses for ESL
Level 1 – 2

This is a beginning course designed to develop listening and oral communication skills and build the confidence of beginning-level students. Regular small-group and individual speaking and listening practice help students feel confident in discussing activities such as travel, money, and health. The lessons are based on realistic conversations and task-based listening sections.

Basic English Grammar

Open to Grades: 9-12
Credit: 0
Elective Courses for ESL
Level 1 – 2

This class is a beginning-level English grammar course that provides the foundation skills needed so that students begin speaking and writing in English. The present, past and future tenses are explained and practiced extensively through listening, speaking, and writing exercises.

Basic English Grammar

Open to Grades: 9-12
Credit: 0
Elective Courses for ESL
Level 1 – 2

This class is a beginning-level English grammar course that provides the foundation skills needed so that students begin speaking and writing in English. The present, past and future tenses are explained and practiced extensively through listening, speaking, and writing exercises.

Pronunciation

Open to Grades: 9-12
Credit: 0
Elective Courses for ESL
Level 1 – 2

This beginning-level course helps students develop linguistic understanding through practicing vowel sounds, consonant sounds, stress, intonation, linking words, and rhythm and timing in North American English. Students participate in daily pronunciation practice centered on word pairs that contrast two sounds in order to better hear and produce the two different sounds. Students also have the opportunity to learn and practice pronunciation through lectures, conversations, interactive speaking tasks, games, and other activities. In addition, students are expected to complete weekly homework and quizzes.

Intermediate Grammar A/B

Open to Grades: 9-12
Credit: 0
Elective Courses for ESL
Level 3 – 4

This intermediate-level course develops linguistic understanding by introducing the form and function of selected grammar points at the intermediate level. This course starts with a review of grammar fundamentals and then progress to more complex grammar and language points to give students a strong foundation in intermediate-level grammar. Students participate in a

variety of activities during this class, including lectures, in-class exercises, weekly homework and quizzes, and group/pair work. Students are expected to complete weekly homework and quizzes.

Intermediate Listening and Speaking

Open to Grades: 9-12
Credit: 0
Elective Courses for ESL
Level 3 – 4

This intermediate-level course develops students' linguistic understanding at an intermediate level by focusing on the language functions required for everyday life activities. Regular speaking and listening practice helps students feel confident in activities such as shopping, ordering in a restaurant, and arranging to meet a friend. The lessons are based on realistic conversations and task-based listening sections.

Intermediate Reading

Open to Grades: 9-12
Credit: 0
Elective Courses for ESL
Level 3 – 4

This intermediate-level course is designed to develop reading skills for intermediate students. Students develop reading fluency, accuracy, and comprehension by reading passages from a variety of sources such as newspapers, magazines, books, and websites. Students participate in a variety of activities during this class, including lectures, in-class reading and exercises, weekly homework and quizzes, and group/pair work.

Reading Short Stories

Open to Grades: 9-12
Credit: 0
Elective Courses for ESL
Level 3 – 4

This is an introductory intermediate-level course to the reading and writing of short stories. Students read short stories that expand their vocabulary and serve as guides for when they write their own short stories. Students learn about the writing process and the elements of short stories, such as plot, setting, and character development.

Intermediate Vocabulary A/B

Open to Grades: 9-12
Credit: 0
Elective Courses for ESL
Level 3 – 4

In this intermediate-level course, students learn strategies for learning English vocabulary. Students work to expand their core vocabulary by studying words commonly used in conversation, reading, and writing. Students learn pronunciation, spelling and common collocations. In addition, students learn common suffixes for the major parts of speech, and learn to recognize related words. This course is designed around a corpus, and teaches the most frequently used words from the General Service List and Academic Word List. It presents each word in eight different contexts to help students learn and remember the word easily.

Intermediate Reading B

Open to Grades: 9-12
Credit: 0
Elective Courses for ESL
Level 4 – 5

This intermediate-level course is designed to develop reading skills for intermediate students. Students develop reading fluency, accuracy, and comprehension by reading passages from a variety of sources such as newspapers, magazines, books, and websites. Students participate in a variety of activities during this class, including lectures, in-class reading and exercises, weekly homework and quizzes, and group/pair work.

Speech and Debate

Open to Grades: 9-12
Credit: 0
Elective Courses for ESL
Level 4 – 5

This intermediate-level course develops students' linguistic understanding at an intermediate level by focusing on the language functions required for everyday communication. Regular speaking and listening practice helps students feel confident expressing themselves in situations requiring them to agree, disagree, express opinions, etc. The lessons are based on discourse functions that students would employ in daily interaction with others in English.

Intelligently Speaking

Open to Grades: 9-12
Credit: 0
Elective Courses for ESL
Level 4 – 5

This intermediate-level course develops students' linguistic understanding at an intermediate level by focusing on the language functions required for everyday communication. Regular speaking and listening practice helps students feel confident expressing themselves in situations requiring them to agree, disagree, express opinions, etc. The lessons are based on discourse functions that students would employ in daily interaction with others in English.

Advanced Grammar A/B

Open to Grades: /
Credit: 0
Elective Courses for ESL
Level 5 – 7

This advanced-level course is designed for the academic preparation of advanced students. In this course, students learn about various parts of speech and their uses in informal conversation, as well as in formal writing. Students show understanding and mastery of materials by completing speaking, listening and writing exercises from the textbook and by completing occasional writing samples.

Advanced Listening and Speaking

Open to Grades: /
Credit: 0
Elective Courses for ESL
Level 5 – 7

This academic preparation course is designed for advanced level students. In this course, students learn strategies for listening, note-taking, and discussing topics in academic settings. Students listen to authentic lectures and learn how to organize and synthesize information efficiently. Students also learn strategies for improving discussion skills and improving listening comprehension.

Advanced Reading and Writing

Open to Grades: /
Credit: 0
Elective Courses for ESL Level 5 – 7

This advanced-level course is designed to develop students' reading and writing skills. Students develop reading fluency, accuracy, and comprehension. Students work to understand and evaluate new ideas, emotions, and perspectives found in written texts. This course covers the composition and revision of writing and also reviews quoting, paraphrasing, and summarizing. Students participate in a variety of activities during this class, including lectures, in-class and take home reading and writing exercises, weekly homework and quizzes, group/pair work.

English through American Culture

Open to Grades: /
Credit: 0
Elective Courses for ESL Level 5 – 7

This intermediate-level course helps develop students' linguistic understanding of American English expressed in popular culture by engaging in reading, viewing, and listening to cultural readings, a popular television series, music, and American films. Materials used in this course reflect important historical moments in American culture and life. Students learn new idioms and colloquial expressions, American humor, and nonverbal behavior while expanding their vocabulary and understanding of American culture.

Business English

Open to Grades: /
Credit: 0
Elective Courses for ESL Level 5 – 7

This course introduces high intermediate and advanced students to the business and workplace environment through vocabulary, discussion, and case studies. The focus is on understanding the business world and the effects of globalization, economics, and people have on the working environment.

Classic Stories and Creative Writing

Open to Grades: /
Credit: 0
Elective Courses for ESL Level 5 – 7

This is an introductory high-intermediate-level course to the reading, writing, and presentation of classic stories. This course introduces students to selected texts from Western literature that have greatly influenced American literature, culture, and art. Students learn about the writing process and the elements of story writing, such as plot, setting, and character development. By the end of this course, students should be able to produce written analysis of short stories, give an oral presentation of a selected story; and write a creative short story or poem.

American Idioms and Slang A/B

Open to Grades: /
Credit: 0
Elective Courses for ESL Level 5 – 7

This advanced-level course allows students to learn a variety of English idioms that are used in daily conversation with a special emphasis on popular American idioms. Students develop a larger vocabulary of idioms to allow them to participate in conversations more naturally and better understand informal American English. This course

provides students with a range of exercises to study idioms so that they can integrate them into their everyday speech.

Advanced Placement

AP Chinese Language and Culture

Open to Grades: 9-12
Credit: 1
Prerequisite: Chinese 2, 3, 4, 5, and 6

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 course engages students in an exploration of culture in both contemporary and historical contexts, developing 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). Students should have a certain degree of Chinese Foundation to study this course. The instructor (the native speaker) will take students through different daily scenarios and give them the necessary skills to read, write, and speak Chinese in their everyday environment. The course is designed to provide students with various opportunities to further improve their proficiency in listening, speaking, reading, and writing skills to be ready for the AP Chinese exam held every May. Additionally, students enrolled in this course will have maximum exposure to Chinese cultural elements that are integrated in the process of learning the language. This course includes a language lab component (oral live chat room) designed to increase students' motivation in learning Chinese and is reviewed by College Board AP Audit.

AP Computer Science Principles

Open to Grades: 9-12
Credit: 1

At the beginning of the course, students will review a detailed course calendar that lists all textbook readings, discussion topics, major assignments, unit exams and a course project. Students will work in teams to develop computational thinking and solve problems. Structured activities progress to open-ended projects and problems that require planning, documentation, communication, and other professional skills. Problems aim for ground-level entry with no ceiling: all students can successfully engage the problems while students showing greater achievement are challenged to work further. AP Computer Science

Principles introduces you to the essential ideas of computer science with a focus on how computing can impact the world. Along with the fundamentals of computing, you will learn to analyze data, information, or knowledge represented for computational use; create technology that has a practical impact; and gain a broader understanding of how computer science impacts people and society.

AP Calculus AB

Open to Grades: 11-12
Credit: 1
Prerequisite: Algebra 1, Geometry, Algebra 2, and Pre-Calculus or Trigonometry

AP Calculus AB is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. The AP course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections among-st these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

AP Macroeconomics

Open to Grades: 11-12
Credit: 1
Prerequisite: Algebra 2

AP Macroeconomics is offered as an alternative to the required economics course that all students must take to graduate high school. Student selection into AP Macroeconomics is based on the individual's enthusiasm for the subject matter as well as their ability, willingness, and self-discipline to do the amount of reading and additional work required of the AP Macroeconomics course. The overall long-term goal of the AP Macroeconomics class is to build a strong foundation in aiding student comprehension of economic concepts such as scarcity, opportunity cost, trade-offs, economic growth, aggregate macroeconomic analysis, money, banking, monetary policy, fiscal policy, and international economic concepts. This course places enormous emphasis on graphing and data/chart analysis, specific objectives regarding graphing is listed within each unit objectives. The course promotes the understanding of aggregate economic activity, the utilization of resources within and across countries, and the critical evaluation of determinants of economic progress and economic decisions made by policymakers. The immediate goal of AP Macroeconomics is to prepare students for the AP Macroeconomic test in May.

AP Microeconomics

Open to Grades: 11-12
Credit: 0.5
Prerequisite: Algebra 2

AP Microeconomics is a college level, year-long course designed to provide students with a thorough understanding of the principles of microeconomics in 18 weeks. This course is designed to encourage students to think like economists, by questioning and evaluating costs and benefits and exploring the many ways that one economic action will cause secondary actions. It will also teach students a new way of thinking about decision making that will prepare them to embrace the responsibilities of adult consumers. Accordingly, AP Microeconomics will examine the fundamental economic principles which govern economic activities of the individual and the firm. This course will address the central topics of the AP Microeconomics Examination including: scarcity, supply and demand, consumer choice, the theory of the firm, perfect and imperfect competition, the factor market, market failure, and the role of government. Throughout the course, students will also learn to generate, interpret, and correctly label economic graphs, charts, and data to describe and explain economic concepts.

AP Statistics

Open to Grades: 11-12
Credit: 1
Prerequisite: Algebra 1, Geometry, and Algebra 2

The AP Statistics course is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.

AP Chemistry

Open to Grades: 11-12
Credit: 1
Prerequisite: Algebra 2

The AP Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. Created by the AP Chemistry Development Committee, the course curriculum is compatible with many Chemistry courses in colleges and universities.

AP English Language & Composition

Open to Grades: 11-12
Credit: 1
Prerequisite: English 3, 4

The AP English Language and Composition course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods.

AP English Literature & Composition

Open to Grades: 11-12
Credit: 1
Prerequisite: English 3, 4

The AP English Literature and Composition course aligns to an introductory college-level literary analysis course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works.

AP World History

Open to Grades: 11-12
Credit: 1
Prerequisite: AP Human Geography

AP World History is designed to be the equivalent of a two-semester introductory college or university world history course. In AP World History students investigate significant events, individuals, developments, and processes in six historical periods from approximately 8000 B.C.E. to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; making historical comparisons; utilizing reasoning about contextualization, causation, and continuity and change over time; and developing historical arguments. The course provides five themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction between humans and the environment; development and interaction of cultures; state building, expansion, and conflict; creation, expansion, and interaction of economic systems; and development and transformation of social structures.

AP US History

Open to Grades: 11-12
Credit: 1
Prerequisite: AP World History

AP U.S. History is designed to be the equivalent of a two-semester introductory college or university U.S. history course. In AP U.S. History students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; making historical comparisons; utilizing reasoning about contextualization, causation, and continuity and change over time; and developing historical arguments. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places: American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society.

AP Psychology

Open to Grades: 11-12
Credit: 1

This course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, analyze bias, evaluate claims and evidence, and effectively communicate ideas.

AP United States Government and Politics

Open to Grades: 11-12
Credit: 1
Prerequisite: American History

AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behavior. They also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, they complete a political science research or applied civics project.

AP Biology

Open to Grades: 11-12
Credit: 1

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

AP Physics 1

Open to Grades: 11-12
Credit: 1
Prerequisite: Algebra 2

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

Laboratory Requirement and Lab Notebooks

Laboratory experience must be part of the education of AP Physics students and should be included in all AP Physics courses. Colleges may require students to present their laboratory materials from AP science courses before granting college credit for laboratory, so students are encouraged to retain their laboratory notebooks, reports, and other materials.

AP Physics 2

Open to Grades: 11-12
Credit: 1
Prerequisite: AP Physics 1 (or equivalent)

The AP Physics 2 course is an algebra-based, introductory college-level physics course.
Students cultivate their understanding of Physics through inquiry-based investigations as they
explore topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV
diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields;
electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics.

Laboratory Requirement and Lab Notebooks

Laboratory experience must be part of the education of AP Physics students and should be included in all AP Physics courses. Colleges may require students to present their laboratory materials from AP science courses before granting college credit for the laboratory, so students are encouraged to retain their laboratory notebooks, reports, and other materials.

AP Calculus BC

Open to Grades: 12
Credit: 1
Prerequisite: Algebra 2

AP Calculus BC is roughly equivalent to both first and second semester college calculus courses and extends the content learned in AB to different types of equations and introduces the topic of sequences and series. The AP course covers topics in differential and integral calculus, including concepts and skills of limits, derivatives, definite integrals, the Fundamental Theorem of Calculus, and series. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

AP Spanish Language and Culture

Open to Grades: 12
Credit: 1

The AP Spanish Language and Culture course emphasizes communication (understanding and being understood by others) by applying the interpersonal, interpretive, and presentational modes of communication in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness.

The AP Spanish 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 Spanish. The AP Spanish 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).

Teachers

Kristi Rae

Highest Level

- Masters of Science - Educational Leadership

Teaching Experiences

- Florida Virtual School Full Time, 3 years, World History, U.S. History, Government, and Career Explorations
- Pearson Online Blended Learning, 6 years, AP U.S. History, U.S. History, World History, SAT/ACT Prep, Psychology, Speech and Debate, and Journalism

Teaching Credentials (State license)

- Educational Leadership - All Levels (Florida)
- English For Speakers of Other Languages Grades K -12 (Florida)
- Social Science Grades 6-12 (Florida and North Carolina)
- Elementary Education Grades K-6 (Florida)
- Family and Consumer Sciences (Florida)

Crystal Dodd

Highest Level

- M.Ed. Secondary Education

Teaching Experiences

- Deer Valley Unified School District, 3 years, History and Art
- Primavera Online High School, 5 years, English, History, and Electives

Teaching Credentials (State license)

- Art, English, History (Arizona, Michigan, Indiana, Illinois, California,
- Hawaii)
- Social Studies (Colorado)

John Mark Seymour

Highest Level

- Master of Business Administration (MBA) in Management

Teaching Experiences

- El Paso Community College, 8 years, Introduction to American
- Government, Texas State and Local Government
- Burges High School, El Paso,Texas, 12 years, World History, AP World

Teaching Credentials (State license)

- Texas Lifetime Teaching Certifications in Business Education, Computer Information Systems, and Social Studies Composite

---

Jennifer Huber

Highest Level

- Ed.M. in Literacy
- A B.S. in History and Secondary Education
- An Associates Degree in Information Technology
- A second Bachelor's degree in Computer Science is in progress, anticipated Dec. 2019.

Teaching Experiences

- Martin Luther School, 1 year, Social Studies and English
- Stepping Stone Charter School, 2 years, Social Studies and English
- Buffalo Public Schools, 9 years, Social Studies and English
- Buffalo Public Schools, 1 year, Computer Science

Teaching Credentials (State license)

- New York state teaching licenses

Kimberly Williams

Highest Level

- Educational Specialist(Ed.S) in Adult Learning

Teaching Experiences

- Maya Angelou High School, 6 years, Science 8, Integrated Physics and Chemistry (IPC), Biology, & Environmental Science
- Winfree Academy Charter School, 1 year, Biology, Physics, Chemistry, Environmental Science, Integrated Physics and Chemistry (IPC)
- John Leslie Patton Jr. Academy Center, 5 years, Chemistry, Biology, Environmental Science

Teaching Credentials (State license)

- Science 8-12 (Texas)

Contact us

3960 Howard Hughes Parkway, Suite 500, Las Vegas, NV, 89169, USA

support@wharton.education

US Office: 1-702-9903555

Cell #: 1-909-5398260

Fax: 1-702-9903501