

CHANDLER ONLINE ACADEMY



Course Catalog 2020-2021

1205 E. Frye Rd.
Building B
Chandler, AZ 85225
<http://cusd80.com/Domain/4364>



Junior High Classes

Language Arts

7th Grade Language Arts

(Semester 1: **ENG700A** or Semester 2: **ENG700B**)

*Honors Available:

(Semester 1 Hon: **ENG705A** or Semester 2 Hon: **ENG705B**)

In this course, students will read, listen to, and analyze stories. They will read various texts, such as newspapers and novels, in addition to discovering their own ability to write.

Prerequisites: Recommended for 7th Grade

Credits: Junior High 0.5 credits per semester

8th Grade Language Arts

(Semester 1: **ENG800A** or Semester 2: **ENG800B**)

*Honors Available:

(Semester 1 Hon: **ENG805A** or Semester 2 Hon: **ENG805B**)

The purpose of this course is to give students the tools to understand and express themselves through writing. By the end of the course, students will have completed a portfolio of their original writings.

Prerequisites: Recommended for 8th Grade

Credits: Junior High 0.5 credits per semester

Mathematics

7th Grade Mathematics

(Semester 1: **MAT700A** or Semester 2: **MAT700B**)

*Advanced students take 8th grade Pre-Algebra

This course gives students opportunities to create, investigate, and demonstrate knowledge through animations, applications, videos, games, and real-world scenarios.

Prerequisites: Algebra

Credits: Junior High 0.5 credits

Pre-Algebra (8th grade Math)

(Semester 1: **MAT800A** or Semester 2: **MAT800B**)

*Advanced students take 9th grade Algebra 1

Students will love this hands-on math course. Through engaging exercises and assessments students will gain a true understanding of higher-level concepts, such as systems of equations and central tendencies.

Prerequisites: Recommended for 8th Grade

Credits: Junior High 0.5 credits

Science

7th Grade Science

(Semester 1: **SCI700A** or Semester 2: **SCI700B**)

*Advanced students take 8th grade Science

In this course, students explore the foundations of science, energy, Earth and its features; Earth's internal and external structures and how they change; Earth's history, living things, and how they change and interact; and genetics, heredity, and the organization of living organisms.

Prerequisites: Recommended for 7th Grade

Credits: Junior High 0.5 credits

8th Grade Science

(Semester 1: **SCI800A** or Semester 2: **SCI800B**)

*Advanced students take 9th grade Science

The course introduces new information and reviews some science basics to prepare students for high school science coursework. Topics covered in this course include: the nature of science, Earth and space science, properties of matter, changes in matter, matter and energy, and energy flow.

Prerequisites: Recommended for 8th Grade

Credits: Junior High 0.5 credits

***CATS**

The Chandler Academically Talented Students (CATS) program is self-contained for core classes, offering gifted students an accelerated and enriched curriculum. Students must meet eligibility criteria to be placed in this program. Gifted courses will be available at COA in Math, Science, English Language Arts, and Social Studies. These courses will be facilitated by highly qualified gifted CUSD teacher.

Social Studies

7th Grade Social Studies

(Semester 1: **SOC700A** or Semester 2: **SOC700B**)

Honors Available:

(Semester 1: **SOC705A** or Semester 2: **SOC705B**)

In this course, students will research the cultural and natural landscapes of the regions they visit. They will then design their own theme park offering a multicultural understanding of our world's diverse people and places.

Credits: Junior High 0.5 credits per semester

8th Grade Social Studies

(Semester 1: **SOC800A** or Semester 2: **SOC800B**)

Honors Available:

(Semester 1: **SOC805A** or Semester 2: **SOC805B**)

In this course, students will discover that history is full of adventure, colorful characters, and complex plots. Each complex plot will be different, and will highlight an important story from our nation's past.

Credits: Junior High 0.5 credits per semester

Junior High Electives

Junior High Physical Education

Comprehensive PE- Grade 7

(one semester course: **PE700**)

This interactive, highly animated course helps students learn safety rules for exercise, how to improve skills, and how to establish and accomplish goals. It also provides an overview of many dual, team, extreme, and outdoor sports.

Credits: Junior High 0.5 credits

Comprehensive PE- Grade 8

(one semester course: **PE800**)

Practicing game strategy to improve the chance of winning in competition, improving sport skill and performance, diversity in sports, nutrition, peer pressure, and making good choices balance out the topics students discover in this course. Fitness logs help students monitor physical activities. Students complete projects that lead to the knowledge, skills, and values they need to implement and maintain a physically active lifestyle.

Credits: Junior High 0.5 credits

Junior High World Languages

Beginning Spanish

(Semester 1: **SPA701A** or Semester 2: **SPA701B**)

In this course, students will learn basic Spanish phrases and vocabulary through interactive lessons that will include images, recordings and videos.

Credits: Junior High 0.5 credits per semester

Intermediate Spanish

(Semester 1: **SPA702A** or Semester 2: **SPA702B**)

In this course, students will journey with our student traveler, Cristina, to Spain, Puerto Rico, Columbia, and Argentina. Cristina will share her experiences as students learn how to speak Spanish in many useful situations. New words and phrases will be introduced with pictures, audio clips, and videos. Students will learn how to greet people, introduce themselves, and speak about their family, home, food, sports, and more through interactive activities, reading, writing, listening, and speaking exercises.

Prerequisites: Beginning Spanish

Credits: Junior High 0.5 credits per semester

Spanish 1

(Semester 1: **SPA100A** or Semester 2: **SPA100B**)

Students will learn basic Spanish grammar to help build their fluency and understanding. There are many opportunities to practice what they learn through interactive practice activities in the form of games, written practice, listening, and speaking exercises.

Prerequisites: Grades 9-12 or Admin Approval

Credits: 0.5 credits per semester

Junior High Electives (continued)

Junior High Career Exploration I

(Semester 1: [ELE750A](#) or Semester 2: [ELE750B](#))

In Career Exploration, you'll explore careers in over fifteen different career areas. From the energy field to human resources and from law to transportation, you'll learn more about what careers are available and what you need to do to get there. In addition, you'll examine how to choose the career that is best for you based on your own unique personality and interests as well as how you can begin developing your leadership skills now. Career Exploration will help you prepare for your future now.

Credits: Junior High 0.5 credits per semester

Junior High Career Exploration II

(Semester 1: [ELE760A](#) or Semester 2: [ELE760B](#))

Imagine that it is 20 years from now. What career do you see yourself in? What do you imagine that you will be doing? Will you be fighting forest fires or engineering the next rocket into space? With all the careers available, it can be difficult to narrow them down. In Middle School Career Explorations 2 we'll explore more careers and what they take to succeed. You will learn more about what steps are needed to prepare for your career and how to compare the pros and cons of different career choices. Finally, you will get the chance to try out parts of different careers to see if you're a perfect fit.

Credits: Junior High 0.5 credits per semester

Junior High Journalism

(Semester 1: [ELE770A](#) or Semester 2: [ELE770B](#))

Are you someone who likes to get the story straight? Do you always want to know more? Who? What? When? Where? How? These are the details that make for a great story. Knowing how to find these key facts and then write them up in a way that makes it easy for others to read about it is the skill of a true journalist. In Middle School Journalism: Tell Your Story, you'll learn how ask the right questions, look for the details, and find the story in any situation. You'll learn how to gather information effectively, organize ideas, format stories for media production, and edit your articles. Get ready to break that news.

Credits: Junior High 0.5 credits per semester

Junior High Music Exploration

(Semester 1: [ELE780A](#) or Semester 2: [ELE780B](#))

What comes to mind when you hear the word "music"? Do you think about your favorite band or artist? Do you think about instruments and scales and chords? The word "music" means something different to everyone. This is why in Exploring Music there is a little bit of something for everyone! You will learn about how we hear music and how music affects our lives. You will explore important elements of music like rhythm, pitch, and harmony, as well as different musical genres. You will discover more about your singing voice and musical instruments and composition while taking in the history and culture of music over the years. Tune up your understanding and appreciation for all things music by signing up for this course.

Credits: Junior High 0.5 credits per semester

Junior High Photography

(Semester 1: [PHO700A](#) or Semester 2: [PHO700B](#))

This course introduces students to the basics of photography, including camera functions and photo composition. Students will learn what it takes to create a good photograph and how to improve photographs of animals, people, and vacations. They will also begin working with their photographs using photo-editing software. Through a variety of assigned projects, students will engage their creativity by photographing a range of subjects and learning to see the world through the lens of their cameras

Credits: Junior High 0.5 credits per semester

Junior High Digital Art and Design

(Semester 1: [ART740A](#) or Semester 2: [ART740B](#))

There are so many different types of art in this world—fine art, classical art, visual art—but the impact of digital art and design is all around us, often in ways that you probably are not even aware of! After taking Digital Art and Design, you will enjoy a deeper understanding and appreciation for all things digital as you explore this special genre of art found in everything from advertising to animation to photography and beyond. In this course, you will learn about the evolution of art, the basic principles of art and design, and the role of art in politics and society. Additionally, you will actually create your own digital art and make it come alive. Give your creative side a boost with this Digital Art and Design course.

Credits: Junior High 0.5 credits per semester

High School Electives

World Languages

Spanish 1

(Semester 1: [SPA100A](#) or Semester 2: [SPA100B](#))

Students will learn basic Spanish grammar to help build their fluency and understanding. There are many opportunities to practice what they learn through interactive practice activities in the form of games, written practice, listening, and speaking exercises.

Prerequisites: Grades 9-12 or Admin Approval

Credits: 0.5 credits per semester

Spanish 2

(Semester 1: [SPA200A](#) or Semester 2: [SPA200B](#))

This course will strengthen Spanish listening, speaking, reading, and writing skills. Students will also experience the beauty and expressiveness of a language that is shared by different people and cultures throughout the world.

Prerequisites: Grades 9-12 or Admin Approval and Spanish 1

Credits: 0.5 credits per semester

Honors Spanish 3

*May be taken for dual credit

(Semester 1: [SPA305A](#) or Semester 2: [SPA305B](#))

In this course, students will have many opportunities to perfect the Spanish they learned. They will have the chance to further expand their vocabulary and learn about Spanish-speaking countries.

Prerequisites: Grades 9-12 and Spanish 2.

Credits: 0.5 credits per semester

AP Spanish Language and Culture (Year 4)

(Semester 1: [SPA405A](#) or Semester 2: [SPA405B](#))

This course is designed to refine, perfect and enhance language skills: listening, speaking, reading, and writing. It emphasizes active communication in Spanish and broadens the student's understanding of Hispanic culture. There is a strong focus on applying language to real life situations.

Prerequisites: Grades 10, 11, or 12 and Spanish 3 or equivalent study or instructor approval.

Credits: 0.5 credits per semester

French 1

(Semester 1: [FRE100A](#) or Semester 2: [FRE100B](#))

Students will learn basic French grammar to help build your fluency and understanding, and apply what you learn through interactive games, written practice, and listening and speaking exercises.

Prerequisites: Grades 9-12 or Admin Approval

Credits: 0.5 credits per semester

French 2

(Semester 1: [FRE200A](#) or Semester 2: [FRE200B](#))

This course will Strengthen your French listening, speaking, reading, and writing skills with engaging and interactive videos, dialogs, presentations, self-checks, and much more.

Prerequisites: Grades 9-12 or Admin Approval and French 1

Credits: 0.5 credits per semester

Honors French 3

(Semester 1: [FRE305A](#) or Semester 2: [FRE305B](#))

This course is designed to review and improve skills learned in French 2. Emphasis is on linguistic skills: speaking, listening, reading and writing through the study of grammar, literature and culture.

Prerequisites: Grades 9-12 and French 2

Credits: 0.5 credits per semester

Mandarin Chinese 1

(Semester 1: [CHI100A](#) or Semester 2: [CHI100B](#))

Students learn the basic Chinese language. At the very beginning, the course starts by introducing students to a general knowledge of Pinyin, Mandarin Chinese, Chinese dialects, and Chinese characters. They engage in conversation in Chinese including greeting people, introducing themselves to others, and exchanging basic information with others. They also learn to count from 1 to 1000 and make simple sentences in both spoken and written Chinese and learn 160 "magical" Chinese characters. As students walk through the units, they get to know not only the language itself, but also the culture.

Prerequisites: Grades 9-12 or Admin Approval

Credits: 0.5 credits per semester

World Languages (continued)

Mandarin Chinese 2

(Semester 1: **CHI200A** or Semester 2: **CHI200B**)

Students will further develop the communicative skills of listening, speaking, reading, and writing Mandarin Chinese at a more advanced level. The course immerses students in Chinese culture as virtual exchange students in China. Virtual excursions from one Chinese city to another expand the students' vocabulary, helping them learn to interact with others and use appropriate terms to communicate in various everyday situations..

Prerequisites: Grades 9-12. Mandarin Chinese 1.

Credits: 0.5 credits per semester

Honors Mandarin Chinese 3

(Semester 1: **CHI305A** or Semester 2: **CHI305B**)

Students learn essential knowledge of Chinese culture, including the origins, histories, anecdotes, and etiquettes for various cultural settings, events, and occasions. Students also learn to compare and contrast the Chinese culture with their own cultures in many different aspects.

Prerequisites: Grades 9-12 and Mandarin Chinese 2

Credits: 0.5 credits per semester

American Sign Language 1

(Semester 1: **ASL100A** or Semester 2: **ASL100B**)

Introduction will introduce you to vocabulary and simple sentences, so that you can start communicating right away. Importantly, you will explore Deaf culture – social beliefs, traditions, history, values and communities influenced by deafness. The course will introduce you to more of this language and its grammatical structures

Prerequisites: Grades 9-12 or Admin Approval

Credits: 0.5 credits per semester

American Sign Language 2

(Semester 1: **ASL200A** or Semester 2: **ASL200B**)

In this course, in addition to learning classifiers, glossing, and mouth morphemes, students will explore vocabulary for descriptions, directions, shopping, making purchases, and dealing with emergencies. Students will increase their proficiency by learning about sequencing, transitions, role-shifts, and future tenses through storytelling and asking questions.

Prerequisites: Grades 9-12 or Admin Approval and American Sign Language 1

Credits: 0.5 credits per semester

Health & Physical Education

High School Physical Education and Health

Comprehensive Health

(one semester course: **PED220**)

This course guides students as they deal with important decisions by providing them with the facts they need. Students will learn how to deal with real issues that impact their lives every day, such as nutrition, substance abuse, stress, and their health.

Credits: 0.5 credit course

Physical Education (P.E.)

(Semester 1: **PED150A** or Semester 2: **PED150B**)

In this course, students will experience the many benefits of regular physical activity, proper nutrition, and sound decision making. Students will assess their current physical condition and define personal goals. Students will apply fitness training principles, enhancing improvement in health and skill-related areas of fitness.

Credits: 0.5 credits per semester

Personal Fitness (1 semester of P.E.)

(one semester course: **PED140A**)

Students will start by assessing their physical condition. They will keep a workout log to measure progress. In addition, they will have a great personal trainer (their teacher) who will help them set realistic goals.

Credits: 0.5 credit course

Electives

Art in World Cultures

(Semester 1: **ART180A** or Semester 2: **ART180B**)

You will learn about some of the greatest artists while also creating art of your own, including digital art. We will explore the basic principles and elements of art, learn how to critique art, and examine some of the traditional art of the Americas, Africa, and Oceania in addition to the development of Western art.

Credits: 0.5 credits per semester

Art History and Criticism (FINE ART)

(Semester 1: **ART190A** or Semester 2: **ART190B**)

Students explore the role of art in history and culture through observation and analysis of significant works of art and architecture from Prehistory through the 16th century. Student historians investigate the societal context of works, considering traditional forms and conventions of representation, symbology, and the purposes for which the art was created. The course includes an introduction to the methodologies of art history and criticism, study of the media and techniques used by artists from various cultures and time periods, and use of appropriate terminology in verbal and written analyses of artworks drawn from around the world. Student historians critique and compare works across time and cultures to develop an understanding of, and respect for, the visual arts as a chronicle of history, cultural heritage, and the human experience.

Credits: 0.5 credits per semester

AP History of Art (FINE ART)

(Semester 1: **ART335A** or Semester 2: **ART335B**)

Students will explore the interconnections between art, culture, and historical context using critical analysis through the critical lenses of artistic expression, cultural awareness, and purpose. Using a defined art historical skill set and reflective learning, students will analyze relationships across cultures with a global lens. The examination of how people have responded to and communicated their experiences through art will enable students to think conceptually about art ranging from prehistoric to contemporary.

Credits: 0.5 credits per semester

Creative Writing

(Semester 1: **ENE200A** or Semester 2: **ENE200B**)

This course provides students with a solid grounding in the writing process, from finding inspiration to building a basic story to using complicated literary techniques and creating strange hybrid forms of poetic prose and prose poetry. By the end of this course, students will learn how to discover their creative thoughts and turn those ideas into fully realized pieces of creative writing.

Credits: 0.5 credits per semester

Criminology

(Semester 1: **ELE102A** or Semester 2: **ELE102B**)

In today's world, crime and deviant behavior rank at or near the top of many people's concerns. In this course, we will study the field of Criminology – the study of crime. We will look at possible explanations for crime from the standpoint of psychological, biological and sociological perspectives, explore the categories and social consequences of crime, and investigate how the criminal justice system handles not only criminals, but also their misdeeds.

Credits: 0.5 credits per semester

Digital Photography I (FINE ART)

(Semester 1: **DPH101A** or Semester 2: **DPH101B**)

The Digital Photography I course focuses on the basics of photography, including building an understanding of aperture, shutter speed, lighting, and composition. Students will be introduced to the history of photography and basic camera functions. Students will use the basic techniques of composition and camera functions to build a portfolio of images, capturing people, landscapes, close-up, and action photographs.

Credits: 0.5 credits per semester

Digital Photography II (FINE ART)

(Semester 1: **DPH201A** or Semester 2: **DPH201B**)

In this course, we will examine various aspects of professional photography, including the ethics of the profession, and examine some of the areas that professional photographers may choose to specialize in, such as wedding photography and product photography. We will also learn more about some of the most respected professional photographers in history and we will learn how to critique photographs in order to better understand what creates an eye catching photograph.

Credits: 0.5 credits per semester

Entrepreneurship

(Semester 1: MRK320A or Semester 2: MRK320B)

What does it really take to own your own business? Does the sound of being your own boss make you feel excited or anxious? Either way, Entrepreneurship: Starting Your Business will get you started in the right direction. This course explains the ins and outs of such an enterprise, giving you the confidence needed to be your very own boss. You will discover what is needed to operate a personal business from creating a plan, generating financing, and pricing products to marketing services and managing employees. If you've ever dreamed of being a true entrepreneur but feel daunted by the prospect, this is your chance to learn all you need to know.

Credits: 0.5 credits per semester

Health Science: The Whole Individual

(Semester 1: PED160A or Semester 2: PED160B)

In this course, students will be introduced to the various disciplines within the health sciences, including toxicology, clinical medicine, and biotechnology. They will explore the importance of diagnostics and research in the identification and treatment of diseases. The course presents information and terminology for the health sciences and examines the contributions of different health science areas.

Credits: 0.5 credits per semester

AP Human Geography

(Semester 1: SSE205A or Semester 2: SSE205B)

Students will explore the diverse ways in which people affect the world around them and how they are affected by their surroundings. Students will discover how ideas spread and cultures form, and learn how beliefs and architecture are part of a larger culture complex. In addition to introducing students to the field of Human Geography, this course will teach students how to analyze humans and their environments.

Credits: 0.5 credits per semester

Law & Order

(Semester 1: ELE103A or Semester 2: ELE103B)

Every society has laws that its citizens must follow. From traffic laws to regulations on how the government operates, laws help provide society with order and structure. This course focuses on the creation and application of laws in various areas of society. By understanding the workings of our court system, as well as how laws are actually carried out, we become more informed and responsible citizens in our communities and of our nation.

Credits: 0.5 credits per semester

Music Appreciation (FINE ART)

(Semester 1: ELE106A or Semester 2: ELE106B)

Music is part of everyday lives and reflects the spirit of our human condition. To know and understand music, we distinguish and identify cultures on local and global levels. This course will provide students with an aesthetic and historical perspective of music a historical perspective on music from the Middle Ages to the 21st century, but it will also teach you the essentials of how to listen and really hear (with a knowledgeable ear) the different music that's all around you. Learning how to truly appreciate sound and melody is the best way to ensure a continued love of this delightful art form.

Credits: 0.5 credits per semester

Personal Psychology I

(Semester 1: ELE104A or Semester 2: ELE104B)

Self-knowledge is the key to self-improvement! More than 800,000 high school students take psychology classes each year. Among the different reasons, there is usually the common theme of self-discovery! Sample topics include the study of infancy, childhood, adolescence, perception and states of consciousness. Online psychology experiments dealing with our own personal behavior is featured within this course.

Credits: 0.5 credits per semester

Personal Psychology II

(Semester 1: ELE201A or Semester 2: ELE201B)

Enrich the quality of your life by learning to understand the actions of others! Topics include the study of memory, intelligence, emotion, health, stress and personality. This courses features exciting online psychology experiments involving the world around us.

Credits: 0.5 credits per semester

AP Psychology

(Semester 1: SSE315A or Semester 2: SSE315B)

Student must have taken at least one year of Psychology previous to taking this course

This course providing students an overview of the development of human behaviors and thoughts. Along with preparation for the AP Psychology exam, the goals of this course are to immerse students in modern psychological investigation techniques, to accentuate the ethics and morality of human and animal research, and to emphasize scientific critical thinking skills in application to the social sciences. Psychology is a diverse social and biological science with multiple perspectives and interpretations.

Credits: 0.5 credits per semester *e-book fee for tuition paying students only

Sports and Entertainment Marketing

(Semester 1: MRK310A or Semester 2: MRK310B)

In this course, you'll have the opportunity to explore basic marketing principles and delve deeper into the multi-billion dollar sports and entertainment marketing industry. You'll learn about how professional athletes, sports teams, and well known entertainers are marketed as commodities and how some of them become billionaires as a result. If you've ever wondered about how things work behind the scenes of a major sporting event such as the Super Bowl or even entertained the idea of playing a role in such an event, then this course will introduce you to the fundamentals of such a career.

Credits: 0.5 credits per semester

English/Language Arts

High School Language Arts

English 9

(Semester 1: [ENG100A](#) or Semester 2: [ENG100B](#))

*Honors Available:

(Semester 1 Hon: [ENG105A](#) or Semester 2 Hon: [ENG105B](#))

In this course, students will gain language arts skills by reading literature, writing, listening, viewing, and speaking. They will learn to use the English language successfully to express themselves.

Credits: 0.5 credits per semester

English 10

(Semester 1: [ENG200A](#) or Semester 2: [ENG200B](#))

*Honors Available:

(Semester 1 Hon: [ENG205A](#) or Semester 2 Hon: [ENG205B](#))

Student will be exposed to various forms of communication, including verbal, visual, and audio. In addition to evaluating the plot and characters of well-known writers, students will learn to identify themes, create dialogue, and appeal to emotions through their writing.

Prerequisites: English 9

Credits: 0.5 credits per semester

English 11

(Semester 1: [ENG300A](#) or Semester 2: [ENG300B](#))

In this course, the writing and insights of authors throughout history are collected in a fictitious newspaper called "The Virtual Times." Students will gain an appreciation of American literature and learn about the times in which it was written.

Prerequisites: English 10

Credits: 0.5 credits per semester

AP English Language and Composition

*May be taken for dual credit

(Semester 1: [ENG305A](#) or Semester 2: [ENG305B](#))

Students will become skilled readers of prose written in various periods, disciplines, and rhetorical contexts. They will gain understanding of the interactions between writer's purposes, audience expectations, and subjects.

Prerequisites: English 9 and 10

Credits: 0.5 credits per semester

English 12

(Semester 1: [ENG400A](#) or Semester 2: [ENG400B](#))

In this course, students will be asked to choose pieces of literature that interest them; analyzing the subject matter, and persuasively expressing their own ideas.

Prerequisites: English 11

Credits: 0.5 credits per semester

AP English Literature and Composition

*May be taken for dual credit

(Semester 1: [ENG405A](#) or Semester 2: [ENG405B](#))

In this course, students will develop critical standards for the appreciation of literary works and increase their sensitivity to literature as shared experiences.

Prerequisites: English 9, 10, & 11

Credits: 0.5 credits per semester *e-book fee for tuition paying students only

Honors Science and Technical Writing

(Semester 1: [ENG415A](#) or Semester 2: [ENG415B](#))

Honors Science and Technical Writing is a 4th year English option for students who may have completed AP English Language and/or Dual Credit ENG 101/102, but for whose needs and interests are not fulfilled by AP English Literature.

Designed for students entering STEM fields, this is a rigorous writing class that teaches students how to communicate effectively using different forms of scientific, technical, and research writing. The rigor of this class is reflected in its dual credit English ENG 111 alignment.

AP and dual enrollment courses are college-level courses, and some reading selections may contain mature subject matter

Prerequisites: Grade 12; AP English 11 or ENG 101/102

Credits: 0.5 credits per semester

Mathematics

High School Mathematics

Algebra I

(Semester 1: [MAT100A](#) or Semester 2: [MAT100B](#))

This course contains the basic knowledge students need for all high school math courses. Students will understand the practical use of algebra with hundreds of real-world examples.

Prerequisites: Pre-Algebra (8th Grade Math)

Credits: 0.5 credits per semester

Geometry

(Semester 1: [MAT200A](#) Semester 2: [MAT200B](#))

*Honors Available:

(Semester 1 Hon: [MAT205A](#) or Semester 2 Hon: [MAT205B](#))

In this course, students will learn about points, lines, and planes. They will learn about shapes and gain an understanding of how geometry affects the world around us.

Prerequisites: Algebra I

Credits: 0.5 credits per semester

Algebra II

(Semester 1: [MAT300A](#) or Semester 2: [MAT300B](#))

*Honors Available:

(Semester 1 Hon: [MAT305A](#) or Semester 2 Hon: [MAT305B](#))

Starting with a review of basic algebra, students will learn polynomials, quadratic equations, exponential and logarithmic relations, and probability and statistics.

Prerequisites: Geometry or Honors Geometry

Credits: 0.5 credits per semester

College Algebra

(Semester 1: [MAT340A](#) or Semester 2: [MAT340B](#))

Analysis and interpretation of the behavior and nature of functions including polynomial, rational, exponential, logarithmic, power, absolute value, and piecewise-defined functions; systems of equations, modeling and solving real world problems. Additional topics may include matrices, combinatorics, sequences and series, and conics.

Prerequisites: Algebra II

Credits: 0.5 credits per semester

Interest Theory Advanced Algebra w/Financial Applications

(Semester 1: [MAT350A](#) or Semester 2: [MAT350B](#))

In this course, the student will apply knowledge of algebra exploring topics such as saving money, spending money, and dealing with debt. The student will apply formulas to determine account balances, monthly payments, and total costs. The student will extend knowledge of the financial applications of algebra by exploring investments, mortgages, and retirement savings plans.

Prerequisites: recommended as a senior math class (Admin Approval needed if taken before senior year)

Credits: 0.5 credits per semester

Pre-Calculus

(Semester 1: [MAT400A](#) or Semester 2: [MAT40B](#))

Using algebraic manipulation, graphing and application, the following topics will be emphasized: functions, mathematical modeling, exponential and logarithmic equations, discrete mathematics and trigonometry.

Prerequisites: Algebra II

Credits: 0.5 credits per semester

Honors Pre-Calculus

*May be taken for dual credit

(Semester 1: [MAT405A](#) or Semester 2: [MAT405B](#))

Students, as mathematic analysts, investigate how advanced mathematics concepts are used to solve problems encountered in operating national parks. As students venture from algebra to trigonometry, they analyze and articulate the real-world application of these concepts. The purpose of this course is to study functions and develop skills necessary for the study of calculus. This course includes algebra, analytical geometry, and trigonometry.

Prerequisites: Algebra 2 or Honors Algebra 2

Credits: 0.5 credits per semester *e-book fee for tuition paying students only

AP Statistics***May be taken for dual credit****(Semester 1: MAT425A or Semester 2: MAT425B)**

This course is designed to provide college-level instruction on the concepts and tools for working with data. Students collect and analyze data and draw conclusions based on real-world information. The course challenges students to explore patterns, think critically, use a variety of tools and methods, and report their findings and conclusions.

Prerequisites: Algebra 2 or Pre-calculus or Honors Pre-Calculus**Credits:** 0.5 credits per semester**AP Calculus AB*****May be taken for dual credit****(Semester 1: MAT435A or Semester 2: MAT435B)**

This course consists of a full high school year of work that is comparable to college and university calculus courses. Taking this course will help prepare students for the Calculus AB Advanced Placement® Exam.

Prerequisites: Pre-calculus or Honors Pre-Calculus**Credits:** 0.5 credits per semester *e-book fee for tuition paying students only**AP Calculus BC*****May be taken for dual credit****(Semester 1: MAT445A or Semester 2: MAT445B)**

This course consists of a full high school year of work that is comparable to college and university calculus courses. Taking this course will help prepare students for the Calculus BC Advanced Placement Exam.

Prerequisites: Calculus AB or Honors Pre-Calculus or Brief Calculus**Credits:** 0.5 credits per semester *e-book fee for tuition paying students only**Multivariable Calculus and Differential Equations****(Semester 1: MAT475A or Semester 2: MAT475B)**

This course will be taught to juniors and seniors who completed AP Calculus BC their sophomore or junior year. The curriculum covers Calculus 3 and differential equations (DEQ). There is no AP exam for this course but students can get 4 college credits for the Multivariable Calculus (Calc 3) and 3 credits for DEQ through dual enrollment.

Prerequisites: Grade 11 or 12; AP Calculus BC**Credits:** 0.5 credits per semester**Linear Algebra and Advanced Math Topics****(Semester 1: MAT485A or Semester 2: MAT485B)**

This college-level course includes the topics of introduction to matrices, theories of systems of linear equations, determinants, vector spaces, linear transformations and eigenvalues. It emphasizes the development of computational skills and independent research.

Prerequisites: AP Calculus BC**Credits:** 0.5 credits per semester**Science****High School Science****Investigative Science****(Semester 1: SCI100A or Semester 2: SCI100B)**

This course is designed as an interactive, 21st century course focusing on basic physics and chemistry. Topics include forces and motion, energy through waves, electricity and magnetism, the matter around us, and chemical bonding and reactions. This course will provide a foundation for the study of the physical sciences.

Prerequisites: Grade 9 OR Admin Approval**Credits:** 0.5 credits per semester**Biology****(Semester 1: SCI200A or Semester 2: SCI200B)*****Honors Available:****(Semester 1 Hon: SCI205A or Semester 2 Hon: SCI205B)**

This course provides an in-depth look at the fundamental characteristics of living organisms. It is designed to promote scientific inquiry and discovery. Students will be introduced to the structure, function, diversity, and evolution of living organisms.

Prerequisites: Grade 9, 10 OR Admin Approval; Investigative Science**Credits:** 0.5 credits per semester**AP Biology*****May be taken for dual credit****(Semester 1: SCI215A or Semester 2: SCI215B)**

ONLY for Full-time online students and students who are replacing a grade and PAY for the class This challenging course is designed to provide a college-level experience. Over two semesters, students are engaged in a wide variety of activities, with substantial emphasis on interpreting and collecting data in virtual labs, writing analytical essays, and mastering Biology concepts.

Prerequisites: Grades 10, 11 or 12; Concurrent enrollment or completion of Chemistry**Credits:** 0.5 credits per semester *e-book fee for tuition paying students only**Chemistry****(Semester 1: SCI300A or Semester 2: SCI300B)*****Honors Available:****(Semester 1 Hon: SCI305A or Semester 2 Hon: SCI305B)**

This course is designed to serve as a foundation for the study of Chemistry and includes: scientific inquiry, interactive experiences, higher order thinking, collaborative projects, real world application, and a variety of assessments.

Prerequisites: Grades 10, 11 or 12; Concurrent enrollment or completion of Geometry and Biology**Credits:** 0.5 credits per semester**AP Chemistry*****May be taken for dual credit****(Semester 1: SCI315A or Semester 2: SCI315B)**

This is a second-year college level course designed to aid in meeting the minimum requirement for the AP exam. The study of atomic structure, the periodic system, chemical bonding, kinetic theory, equilibrium and descriptive chemistry provides the student with the necessary knowledge to take the AP exam. It is strongly recommended that students complete Honors Chemistry before taking this class.

Prerequisites: Grades 11 or 12; Algebra 2 and Chemistry**Credits:** 0.5 credits per semester**AP Environmental Science****(Semester 1: SCI325A or Semester 2: SCI325B)**

In this course, students will learn the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. Students will evaluate the risks associated with environmental problems and examine alternative solutions in virtual labs.

Prerequisites: Grades 11 or 12 and Chemistry or Admin Approval**Credits:** 0.5 credits per semester**Physics****(Semester 1 & 2) (Semester 1: SCI400A or Semester 2: SCI400B)**

In this course, students discover the contributions of geniuses like Galileo, Newton, and Einstein by learning about the concepts, theories, and laws that govern the interaction of matter, energy, and forces.

Prerequisites: Grades 10, 11 or 12; Geometry and Biology**Credits:** 0.5 credits per semester**AP Physics****(Semester 1: SCI425A or Semester 2: SCI425B)**

This course is for the science, technology or engineering students. Emphasis is placed on concepts in physics, research, experimentation, evaluation and problem solving. Some of the topics taught are mechanics, energy, and electricity. This course will prepare students for the AP Physics 1 exam.

Prerequisites: Grades 10, 11 or 12; Algebra 2 and Biology**Credits:** 0.5 credits per semester**AP Physics C: Mechanics****(Semester 1: SCI415A or Semester 2: SCI415B)**

This is a second year course that includes a review of general physics, rotational motion, thermodynamics, mathematical properties of waves, electronic circuits and quantum physics. Design and analysis of laboratory experiments are emphasized. It is equivalent to an introductory college-level course and will prepare the student to take the AP exam.

Prerequisites: Grades 11 or 12; Physics and Pre-Calculus**Credits:** 0.5 credits per semester**Anatomy and Physiology****(Semester 1: SCI460A or Semester 2: SCI460B)**

Explore the organization of the human body and how it works. Acquire knowledge necessary to understand what the body is doing and how you can help the body cope with many different situations. Body systems will be studied in order to understand how their structure, location, and function allow for interaction with other parts of the body.

Prerequisites: Grades 11 or 12; Completion of Biology and Chemistry**Credits:** 0.5 credits per semester

Social Studies

High School Social Studies

World History/Geography

(Semester 1: **SOC100A** or Semester 2: **SOC100B**)

*Honors Available:

(Semester 1 Hon: **SOC105A** or Semester 2 Hon: **SOC105B**)

The purpose of this course is to enable students to understand their connections to the development of civilizations by examining the past to prepare for their future as participating members of a global community.

Prerequisites: Grades 9, 10, 11 or 12

Credits: 0.5 credits per semester

AP World History/Geography

(Semester 1: **SOC115A** or Semester 2: **SOC115B**)

This course covers world history and geography from early civilization to the present. Students are required to read literary works and other primary source materials that relate to the course. Strong writing and research skills are necessary to be successful in this class. Critical thinking and problem solving will be encouraged. This course prepares the students to take the AP World History Exam.

American/Arizona History

(Semester 1: **SOC300A** or Semester 2: **SOC300B**)

*AP Level Course Available (see description below)

In this course, students will investigate the people, events and ideas that have shaped the United States from the end of the Civil War through today. Students are asked to analyze and evaluate decisions made by political, business and military leaders. Emphasis is placed on connections between events of the past and present. This course also gives students the opportunity to conduct research and apply their learning to current, real-world problems.

Prerequisites: Grades 11, 12

Credits: 0.5 credits per semester

AP American/Arizona History

*May be taken for dual credit

(Semester 1: **SOC305A** or Semester 2: **SOC305B**)

Within AP Am/AZ History, students will develop and use historical thinking skills (chronological reasoning, comparison and contextualization, crafting historical arguments from historical evidence, and historical interpretation and synthesis) to examine the history of the United States from 1491 to the present.

Prerequisites: Grades 11, 12; Instructor recommendation

Credits: 0.5 credits per semester *e-book fee for tuition paying students only

American Government

(one semester course: **SOC400A**)

*AP Level Course Available (see description below)

Students will take on the role of a Washington, D.C. intern and spend time working throughout the nation's capital with all three branches of government. They will gain a greater understanding of the country's beginnings, and how government functions at different levels.

Prerequisites: Grade 12

Credits: 0.5 credit semester course

AP American Government

(one semester course: **SOC405**)

Lights, Camera, Action" ...Prepare to study the intricacies of the American Political Culture. The script is written and the actors participate daily in the drama of American politics. You will be "on location" to delve into primary source documents. You will go behind the scenes with stars such as the President, Congress people, and Supreme Court Justices. You will research the roles of the media, political parties, interest groups, states, candidates, bureaucracy, and the public in the governmental process. Finally, you will witness the large-scale production of policy building in the areas of economic/social policy, foreign policy and public administration.

Prerequisites: 12th grade; Instructor recommendation

Credits: 0.5 credit semester course *e-book fee for tuition paying students only

Economics

(one semester course: **SOC420**)

*AP Level Course Available (see description below)

The purpose of this course is to help students become more informed consumers, producers, investors, and taxpayer. Students are shown how their choices directly affect their future.

Prerequisites: Grades 12

Credits: 0.5 credit semester course

AP Macroeconomics

(one semester course: **SOC425A**)

Understand the choices you make as a producer, consumer, investor, and taxpayer. This course provides you with the knowledge and decision-making tools necessary for understanding how a society must organize its limited resources to satisfy its unlimited wants. This course meets the Economics high school graduation requirement.

Prerequisites: Grade 12; Instructor recommendation

Credits: 0.5 semester course

CTE Courses

All courses in this department will meet CUSD requirements for CTE Credit or Elective Credit. All courses in this department will meet in-state university admissions requirements for CTE credit. See course description for further details.

Plants, Animals, & Leadership (PALS)

(Semester 1: AGS100A or Semester 2: AGS100B)

Did you know that the world's population could be as high as 11 billion people by the year 2050? And certainly, as our population is growing, so too are our food needs. Even today, millions of people around the world experience hunger. How can we balance growing populations and keeping everyone fed? This is where the importance of agriculture, food, and natural resources comes in! Through the study of Principles of Agriculture: Food and Natural Resources, you will gain a stronger sense of how food ends up on the plate and how we can maximize the foods and natural resources the earth provides. You'll learn more about agriculture's history, animal husbandry, plant science, and natural resources, about some of the controversies that surround agricultural practices as nations strive to provide their people with a more abundant and healthy food supply.

Credits: 0.5 credits per semester

Culinary Arts 1

(Semester 1: CUL100A or Semester 2: CUL100B)

Thinking of a career in the food service industry or looking to develop your culinary skills? This introductory course will provide you with basic cooking and knife skills while preparing you for entry into the culinary world. Discover the history of food culture, food service, and global cuisines while learning about food science principles and preservation. Finally, prepare for your future by building the professional, communication, leadership, and teamwork skills that are crucial to a career in the culinary arts. Discover how to elevate your culinary skills through the creation of stocks, soups, sauces, and learn baking techniques. Examine sustainable food practices and the benefits of nutrition while maintaining taste, plating, and presentation to truly wow your guests. This course will require the purchase of grocery items to complete assignments.

Credits: 0.5 credits per semester

Culinary Arts 2

(Semester 1: CUL200A or Semester 2: CUL200B)

Whether you aspire to be a world-class chef or just want to learn the skills needed to create your own dishes, Culinary Arts 2 will help you build a strong foundation and grow your knowledge of this exciting industry. In this course, you will explore baking and desserts, learn how to prepare proteins, and study nutrition and safety in the kitchen. You will also enhance your understanding of sustainability in the food industry, learn to prepare meals from a global perspective, and dissect the business of cooking, from managing a kitchen to successfully running a catering company. Discover the delights that await you on this delicious culinary adventure! This course will require the purchase of grocery items to complete assignments.

Prerequisites: CUL100

Credits: 0.5 credits per semester

Digital Photography I

(Semester 1: DPH101A or Semester 2: DPH101B)

Have you wondered how professional photographers manage to capture that perfect image? Gain a better understanding of photography by exploring camera functions and the elements of composition while putting theory into practice by taking your own spectacular shots! Learn how to display your work for exhibitions and develop skills important for a career as a photographer. Further develop your photography skills by learning more professional tips, tricks, and techniques to elevate your images. Explore various photographic styles, themes, genres, and artistic approaches. Learn more about photojournalism and how to bring your photos to life. Using this knowledge, build a portfolio of your work to pursue a career in this field!

Credits: 0.5 credits per semester

Early Childhood Education

(Semester 1: ECE100A or Semester 2: ECE100B)

Are you curious to see what it takes to educate and nurture early learners? Use your curiosity to explore the fundamentals of childcare, like nutrition and safety, but also the complex relationships caregivers have with parents and their children. Examine the various life stages of child development and the best educational practices to enrich their minds while thinking about a possible future as a childcare provider! Discover the joys of providing exceptional childcare and helping to develop future generations. Learn the importance of play and use it to build engaging educational activities that build literacy and math skills through each stage of childhood and special need.

Credits: 0.5 credits per semester

Marketing 1

(Semester 1: MRK200A or Semester 2: MRK200B)

Introduce your students to the fast-paced and exciting world of marketing! Students will learn about the role of marketing in business in addition to the basics of business management, customer service, and economics. Furthermore, students will examine how to identify target markets, perform market research, and develop successful marketing strategies. Explore the legal and ethical considerations of business and marketing are discussed along with the impact of government on business. Dive deeper into the marketing world with real world applications and practices. Engage with the marketing mix by studying understanding branding, advertising, promotion strategies, and more. Learn about effective sales techniques and discover employment opportunities to pursue a career in this exciting field!

Credits: 0.5 credits per semester

Marketing 2

(Semester 1: MRK330A or Semester 2: MRK330B)

Can you think of a brand that first launched in the U.S. and then became popular in other countries? Facebook™ did this very thing! Without a solid understanding of business and international marketing strategy, it becomes nearly impossible to be successful and stand out from the crowd. In this course, you'll find out how business and marketing works around the world! You'll learn about topics such as regulations, market research, marketing plans, global trends, buying and selling internationally. In addition, you'll learn expectations, best practices, sales planning, building a clientele that becomes long-term buyers, and how to stay motivated to sell, sell, sell! If sales management is your goal, you'll learn about management styles, how to find, hire, train, motivate, and compensate your team.

Prerequisites: MRK200

Credits: 0.5 credits per semester

NCAA Approved Courses

CTE

Plants, Animals, & Leadership (PALS)
 Culinary Arts 1
 Culinary Arts 2
 Digital Photography 1
 Early Childhood Education
 Marketing 1
 Marketing 2

ENGLISH

English 9
 Honors English 9
 English 10
 Honors English 10
 English 11
 AP English Language Composition
 English 12
 AP English Literature Composition
 Honors Science and Technical Writing

ELECTIVES

Art in World Cultures
 Art History and Criticism
 AP History of Art
 AP Human Geography
 AP Personal Psychology
 Creative Writing
 Criminology
 Digital Photography 1
 Digital Photography 2
 Entrepreneurship
 Health Science
 Law and Order
 Music Appreciation
 Personal Psychology 1
 Personal Psychology 2
 Sports and Entertainment Marketing

MATHEMATICS

Algebra I
 Honors Algebra I
 Geometry
 Honors Geometry
 Algebra II
 Honors Algebra II
 College Algebra
 Interest Theory Adv. Algebra
 Pre-Calculus
 Honors Pre-Calculus
 AP Statistics
 AP Calculus AB
 AP Calculus BC
 Multivariable Calculus and Differential Equations
 Linear Algebra and Advanced Math Topics

SCIENCE

Investigative Science
 Biology
 Honors Biology
 Anatomy and Physiology
 AP Biology
 Chemistry
 Honors Chemistry
 AP Chemistry
 AP Environmental Science
 Physics
 AP Physics
 AP Physics C: Mechanics

SOCIAL SCIENCE

World History/Geography
 AP World History/Geography
 Honors World History/Geography
 American/AZ History
 AP American/AZ History
 American Government
 AP US Government
 Economics
 AP Macroeconomics

WORLD LANGUAGES

Spanish 1
 Spanish 2
 Honors Spanish 3
 AP Spanish Language Culture (Year 4)
 French 1
 French 2
 Honors French 3
 Mandarin Chinese 1
 Mandarin Chinese 2

Honors Mandarin Chinese 3
American Sign Language 1
American Sign Language 2