Blended Learning Center

Course Catalog
2018-2019

Oregon Trail
CHILDREN THRIVE HERE!

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Contents

Courses Checklist

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- ❑ Physical Science (A)
- ❑ Biology (A)
- ❑ Environmental Science (A)
- ❑ Chemistry (A)
- ❑ Physics (A)
- ❑ Anatomy and Physiology (A)
- ❑ **AP** Environmental Science (A)
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- ❑ Chemistry (B)
- ❑ Physics (B)
- ❑ Anatomy and Physiology (B)
- ❑ **AP** Environmental Science (B)

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- ❑ Pre-Algebra (A)*
- ❑ Financial Math (A)*
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- ❑ Algebra 1.5 (A)
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- ❑ Algebra 1.5 (B)
- ❑ Geometry (B)
- ❑ Statistics and Probability (B)
- ❑ Math Models (B)
- ❑ Algebra II (B)
- ❑ Pre-Calculus (B)
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*Indicate elective credit on standard Diploma

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- ❑ Particular Topics: Quantum Tunneling

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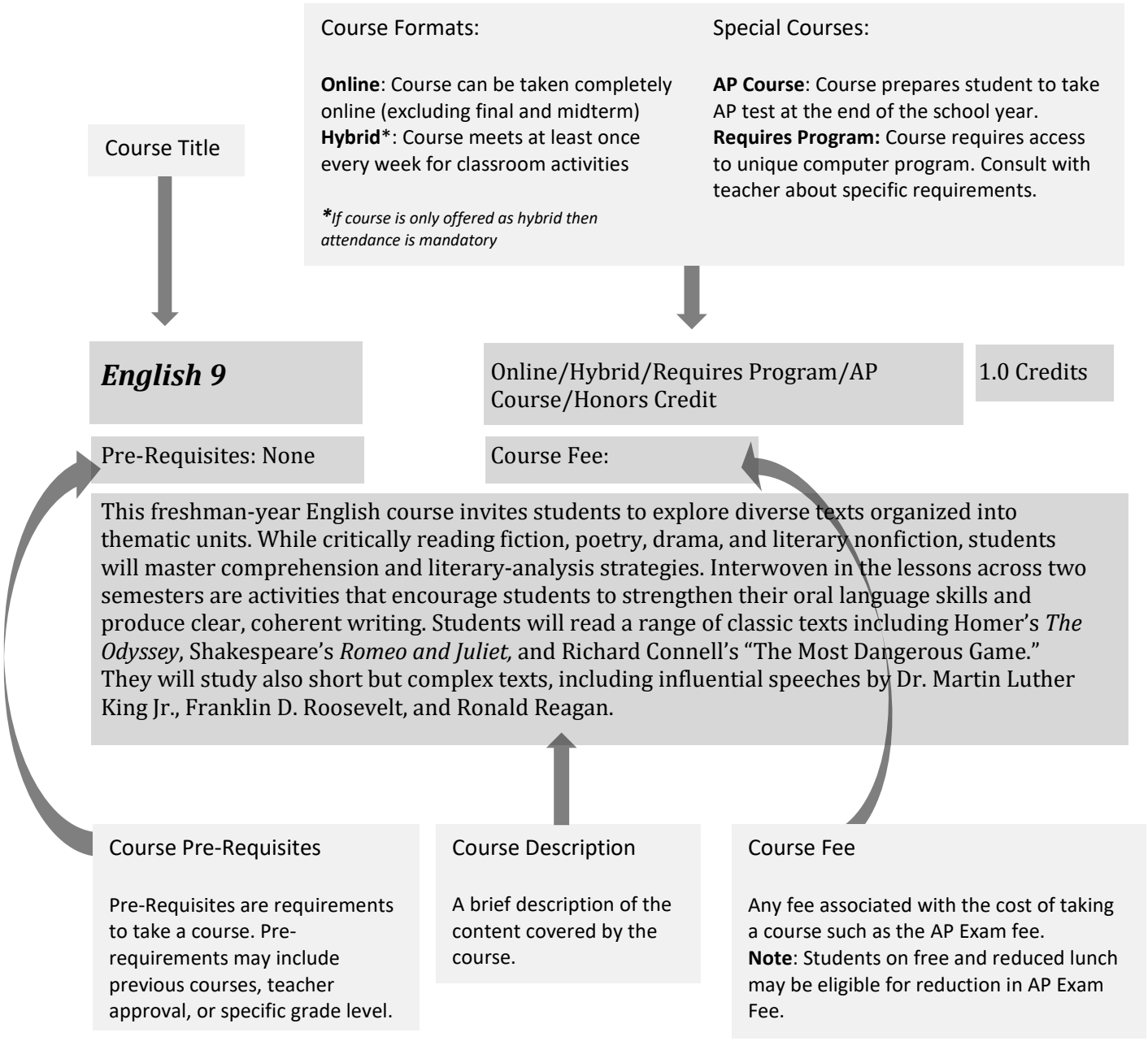
- ❑ Introduction to Art B
- ❑ Art History
- ❑ Beginning Art I
- ❑ Intro to Guitar

Course Descriptions

How to Read the Course Description:



Language Arts

English 9

Online/Hybrid

1.0 Credits

Pre-Requisites: None

This freshman-year English course invites students to explore diverse texts organized into thematic units. While critically reading fiction, poetry, drama, and literary nonfiction, students will master comprehension and literary-analysis strategies. Interwoven in the lessons across two semesters are activities that encourage students to strengthen their oral language skills and produce clear, coherent writing. Students will read a range of classic texts including Homer's The Odyssey, Shakespeare's Romeo and Juliet, and Richard Connell's "The Most Dangerous Game." They will study also short but complex texts, including influential speeches by Dr. Martin Luther King Jr., Franklin D. Roosevelt, and Ronald Reagan.

English 10

Online/Hybrid

1.0 Credits

Pre-Requisites: None

Focused on application, this sophomore English course reinforces literary analysis and 21st-century skills with superb pieces of literature and literary nonfiction, application e-resources, and educational interactives. Each thematic unit focuses on specific literary analysis skills and allows students to apply them to a range of genres and text structures. As these units' meld modeling and application, they also expand on training in media literacy, 21st-century career skills, and the essentials of grammar and vocabulary. Under the guidance of the eWriting software, students will also compose descriptive, persuasive, expository, literary analyses, research, narrative, and compare-contrast essays.

English 11

Online

1.0 Credits

Pre-Requisites: None

This junior-year English course invites students to delve into American literature, from early American Indian voices through thoughtful contemporary works. Students will engage in literary analysis and inferential evaluation of great texts, the centerpieces of this course. While critically reading fiction, poetry, drama, and expository nonfiction, students will master comprehension and literary-analysis strategies. Interwoven in the lessons across two semesters are tasks that encourage students to strengthen their oral language skills and produce creative, coherent writing. Students will read a range of short but complex texts, including works by Ralph Waldo Emerson, Emily Dickinson, Herman Melville, Nathaniel Hawthorne, Mark Twain, Langston Hughes, Frederick Douglass, Martin Luther King, Jr., F. Scott Fitzgerald, Amy Tan, and Dave Eggers.

English 12

Online 1.0 Credits

Pre-Requisites: None

This senior-level English course offers fascinating insight into British literary traditions spanning from Anglo-Saxon writing to the Modern Period. With interactive introductions and historical contexts, this full-year course connects philosophical, political, religious, ethical, and social influences of each time period to the works of many notable authors, including Chaucer, William Shakespeare, Queen Elizabeth I, Elizabeth Barrett Browning, and Virginia Woolf. Adding an extra dimension to the British literary experience, this course also exposes students to world literature, including works from India, Europe, China, and Spain.

Communication and Speech

Online 1.0 Credits

Pre-Requisites: None

Beginning with an introduction that builds student understanding of the elements, principles, and characteristics of human communication, communications and speech offers fascinating insight into verbal and nonverbal messages and cultural and gender differences in the areas of listening and responding. The course concludes with units on informative and persuasive speeches, and students are given the opportunity to critique and analyze speeches in the course.

Expository & Applied Writing

Online 0.5 Credits

Pre-Requisites: None

This course offers hands-on experience writing personal reflections, definition essays, research essays, persuasive essays, informative essays, and literary analysis essays. Offering targeted lessons on reputable research, effective communication, solid grammar, and compelling style, this one-semester course utilizes the Six Traits of Effective Writing as an overarching framework. Students enrolled in this course develop the skills necessary to evaluate one's own writing and articulate and apply writing and researching strategies.

Expository Reading & Writing

Online 1.0 Credits

Pre-Requisites: None

This elective English course is designed to develop critical reading and writing skills while preparing high school students to meet the demands of college-level work. While students will explore some critical reading skills in fiction and poetry, the focus of this course will be on expository and persuasive texts and the analytical reading skills that are necessary for college success. Students will read a range of short but complex texts, including works by Walt Whitman, Cesar Chavez, Abraham Lincoln, Martin Luther King Jr., Amy Tan, Langston Hughes, Ayn Rand, Naomi Shihab Nye, Maya Angelou, and Gary Soto.

Literacy & Comprehension

Online

1.0 Credits

Pre-Requisites: None

This course offers an engaging, technology-based interface that inspires and challenges high school students to gain knowledge and proficiency in the following comprehension strategies: summarizing, questioning, previewing and predicting, recognizing text structure, visualizing, making inferences, and monitoring understanding with metacognition. Aimed at improving fluency and vocabulary, self-evaluation strategies built into these courses inspire students to take control of their learning.

Literature Electives

Online

0.5 Credits (each)

Pre-Requisites: None

These English electives are novel studies containing a range of various works. These courses are designed for avid readers and contain 3-4 novels per .5 credit option. Course selection 1 includes: *Heart of Darkness, 1984, Midsummer Night's Dream*; selection 2 includes: *Dr. Jekyll & Mr. Hyde, Ms. Dalloway, Portrait of the Artist*; selection 3 includes: *Robinson Crusoe, Gulliver's Travels, House of Seven Gables.*

Social Studies

Human Geography

Online

1.0 Credits

Pre-Requisites: None

Examining current global issues that impact our world today, this course takes a thematic approach to understanding the development of human systems, human understanding of the world, and human social organization. Offering interactive content that will grow students' understanding of the development of modern civilization and human systems—from the agricultural revolution to the technological revolution—this course encourages students to analyze economic trends as well as compare global markets and urban environments.

U.S. History

Online/Hybrid

1.0 Credits

Pre-Requisites: None

1st semester U.S. History dynamically explores the people, places, and events that shaped early United States history. This course stretches from the Era of Exploration through the Industrial Revolution, leading students through a careful examination of the defining moments that paved the way for the United States of today. As they study the early history of the United States, students will learn critical thinking skills by examining the constitutional foundations of U.S. government. In the 2nd semester of U.S. History students examine the major events and turning points of U.S. history from the Industrial Revolution through the modern age. As students' progress through each era of modern U.S. history, they will study the impact of dynamic leadership and economic and political change on the rise of the United States to global prominence, the influence of social and political movements on societal change, and the importance of modern cultural and political developments.

Modern World History

Online

1.0 Credits

Pre-Requisites: None

This year-long course examines the major events and turning points of world history from the Enlightenment to the present. Students investigate the foundational ideas that shaped the modern world in the Middle East, Africa, Europe, Asia, and the Americas, and then explore the economic, political, and social revolutions that have transformed human history.

Economics

Online 0.5 Credits

Pre-Requisites: None

This semester-long course invites students to broaden their understanding of how economic concepts—including microeconomic and macroeconomic theory, the characteristics of mixed-market economies, the role of government in a free-enterprise system and the global economy, and personal finance strategies—apply to their everyday lives. Throughout the course, students apply critical thinking skills while making practical economic choices. Students analyze data and write routinely and responsively in tasks and assignments that are based on scenarios, texts, activities, and examples.

U.S. Government

Online 0.5 Credits

Pre-Requisites: None

This semester-long course provides students with a practical understanding of the principles and procedures of government. The course begins by establishing the origins and founding principles of American government. After a rigorous review of the Constitution and its amendments, students investigate the development and extension of civil rights and liberties. The course culminates in an examination of public policy and the roles of citizens and organizations in promoting policy approaches. Throughout the course, students examine primary and secondary sources, including political cartoons, essays, and judicial opinions.

Vietnam Era

Online 0.5 Credits

Pre-Requisites: None

A study of the causes and consequences of the United Sates' involvement in the Vietnam War. Subjects include: Early Conflicts in Vietnam, The War Under Nixon, Growth of the Counterculture, The Expansion and Escalation of the war, The Fall of Vietnam, and the End of the War. The Vietnam War era was an extremely tumultuous time in the United States, this course covers the causes of the war as well as the many divisive and controversial issues surrounding the Vietnam War.

Civil War Era

Online 0.5 Credits

Pre-Requisites: None

A study of the issues and conflicts leading up to the American Civil War. Subjects include: The reading/study of the classic novel; The Red Badge of Courage, Expansion and Reform of the Northern/Southern States, The War itself, and the Reconstruction of the South after the war. This course examines the fascinating conflicts and explores the extreme animosity during this era that nearly tore our country apart.

Sociology

Online | 0.5 Credits

Pre-Requisites: None

Providing insight into the human dynamics of our diverse society, EL1120 is an engaging one-semester course that delves into the fundamental concepts of sociology. This interactive course, designed for high-school students, covers cultural diversity and conformity, basic structures of society, individuals and socialization, stages of human development as they relate to sociology, deviance from social norms, social stratification, racial and ethnic interactions, gender roles, family structure, the economic and political aspects of sociology, the sociology of public institutions, and collective human behavior, both historically and in modern times.

Psychology

Online | 1.0 Credits

Pre-Requisites: None

This two-semester course introduces high school students to the study of psychology and helps them master fundamental concepts in research, theory, and human behavior. Students analyze human growth, learning, personality, and behavior from the perspective of major theories within psychology, including the biological, psychosocial, and cognitive perspectives. From a psychological point of view, students investigate the nature of being human as they build a comprehensive understanding of traditional psychological concepts and contemporary perspectives in the field.

AP Psychology

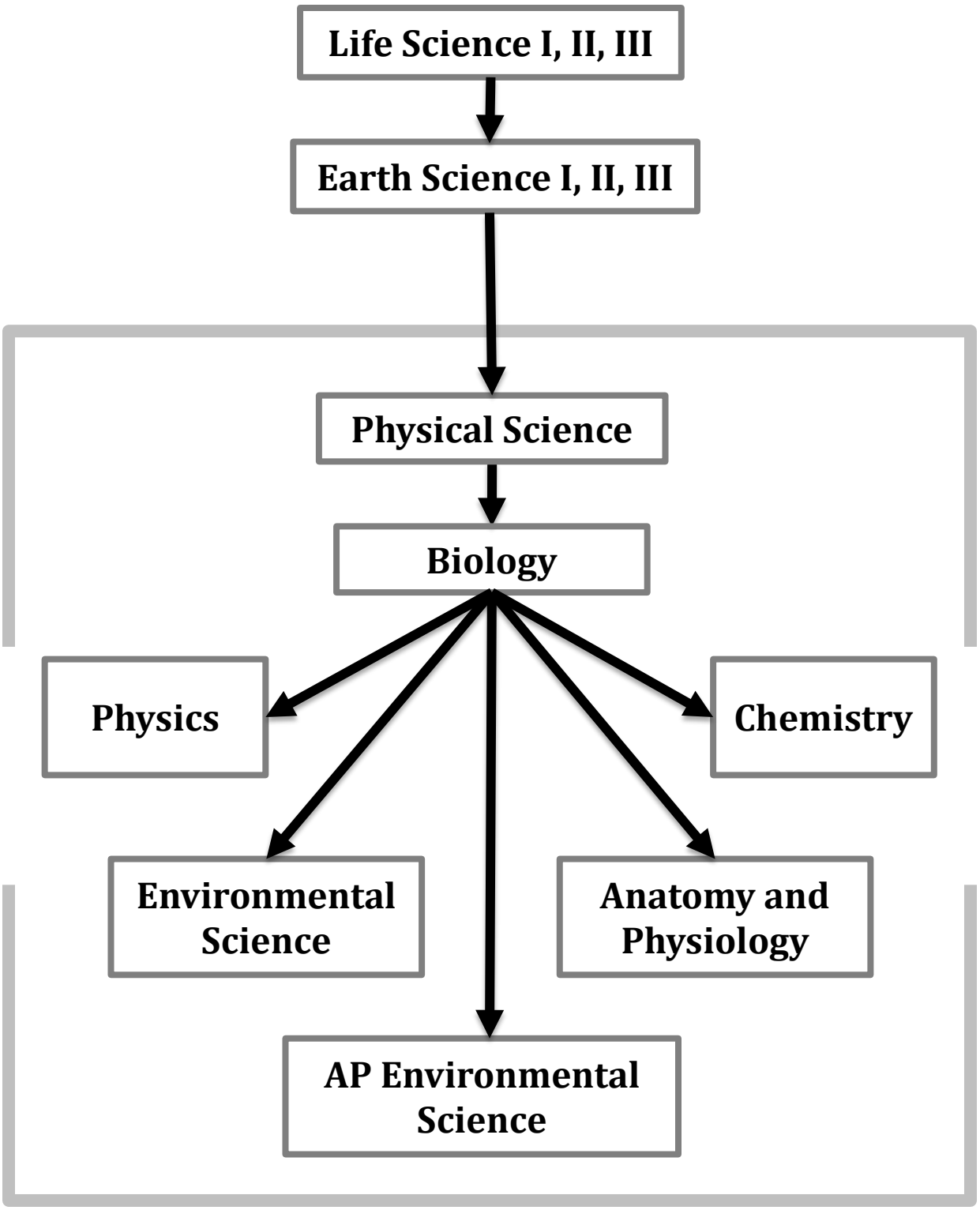
Online/Hybrid/AP Course | 1.0 Credits

Pre-Requisites: 11th or 12th grade
AND Instructor Approval

Course Fee: AP Exam Fee

This two-semester course introduces high school students to the study of psychology and helps them master fundamental concepts in research, theory, and human behavior. Students analyze human growth, learning, personality, and behavior from the perspective of major theories within psychology, including the biological, psychosocial, and cognitive perspectives. From a psychological point of view, students investigate the nature of being human as they build a comprehensive understanding of traditional psychological concepts and contemporary perspectives in the field.

Sciences



Standard Diploma Science Credit

Physical Science

Online/Hybrid 1.0 Credits

Pre-Requisites: None

This full-year course focuses on traditional concepts in chemistry and physics, and encourages exploration of new discoveries in this field of science. The course includes an overview of scientific principles and procedures, and leads students toward a clearer understanding of matter, energy, and the physical universe. As students refine and expand their understanding of physical science, they will apply their knowledge in experiments that require them to ask questions and create hypotheses.

Biology

Online/Hybrid 1.0 Credits

Pre-Requisites: Physical Science

This compelling full-year course engages students in the study of life and living organisms and examines biology and biochemistry in the real world. It encompasses traditional concepts in biology and encourages exploration of new discoveries in this field of science. The components include biochemistry, cell biology, cell processes, heredity and reproduction, the evolution of life, taxonomy, human body systems, and ecology.

Environmental Science

Online 1.0 Credits

Pre-Requisites: Biology

Environmental science is a captivating and rapidly expanding field, and this course offers compelling lessons that cover many different aspects of the field: ecology, the biosphere, land, forests and soil, water, energy and resources, and societies and policy. Through unique activities and material, high school students connect scientific theory and concepts to current, real-world dilemmas, providing them with opportunities for mastery in each of the segments throughout the semester.

Chemistry

Online 1.0 Credits

Pre-Requisites: Biology

This rigorous full-year course engages students in the study of the composition, properties, changes, and interactions of matter. The course covers the basic concepts of chemistry and includes 8 virtual laboratory experiments that encourage higher-order thinking applications. The components of this course include the composition and properties of matter, changes and interactions of matter, organic chemistry, and nuclear chemistry.

Physics

Online 1.0 Credits

Pre-Requisites: Biology

This full-year course focuses on traditional concepts in physics, and encourages exploration of new discoveries in this field of science. The course includes an overview of scientific principles and procedures, and leads students toward a clearer understanding of motion, energy, electricity, magnetism, and the laws that govern the physical universe. As students refine and expand their understanding of physics, they will apply their knowledge in experiments that require them to ask questions and create hypotheses. Throughout the course, students solve problems, reason abstractly, and learn to think critically.

Anatomy and Physiology

Online 1.0 Credits

Pre-Requisites: Biology

This year long course introduces high school students to the fundamental concepts of anatomy and physiology—including the organization of the body, cellular functions, and the chemistry of life. As they progress through each unit, students will learn about the major body systems, common diseases and disorders, and the career specialties associated with each system. Students will investigate basic medical terminology as well as human reproduction and development. Students are introduced to these fundamental health science concepts through direct instruction, interactive tasks, and practice assignments. This course is intended to provide students with a strong base of core knowledge and skills that can be used in a variety of health science career pathways.

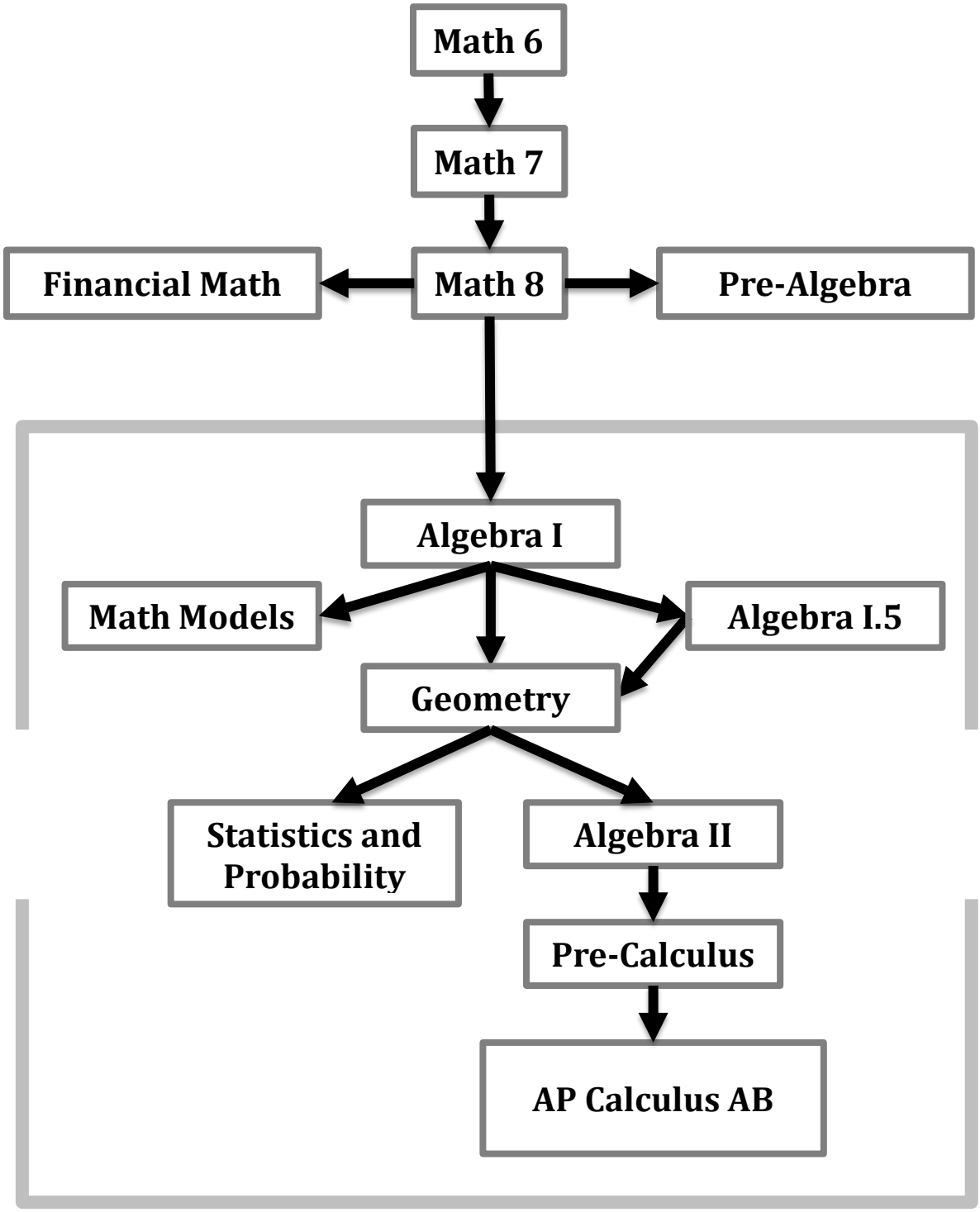
AP Environmental Science

Online/Hybrid/AP Course 1.0 Credits

Pre-Requisites: Biology **AND**
Instructor Approval Course Fee: AP Exam Fee

AP Environmental Science is a laboratory and field-based course designed to provide students with the content and skills needed to understand the various interrelationships in the natural world, to identify and analyze environmental problems, and to propose and examine solutions to these problems. Since this is an online course the laboratory and field-based activities will be done virtually and via experiments that students can easily perform at home with common materials. The course is intended to be the equivalent of a one-semester college ecology course, which is taught over an entire year in high school. The course encompasses human population dynamics, interrelationships in nature, energy flow, resources, environmental quality, human impact on environmental systems, and environmental law.

Mathematics



Standard Diploma Math Credit

*Pre-Algebra**

Online 1.0 Credits

Pre-Requisites: None

This full-year course is designed for students who have completed a middle school mathematics sequence but are not yet Algebra-ready. This course reviews key algebra readiness skills from the middle grades and introduces basic Algebra I work with appropriate support. Students revisit concepts in number and operations, expressions and equations, ratio and proportion, and basic functions. By the end of the course, students are ready to begin a more formal high school Algebra I study.

***Pre-Algebra is not eligible for math credit on the standard diploma**

*Financial Math**

Online 1.0 Credits

Pre-Requisites: Grade 8 Math

Connecting practical mathematical concepts to personal and business settings, this course offers informative and highly useful lessons that challenge students to gain a deeper understanding of financial math. Relevant, project-based learning activities cover stimulating topics such as personal financial planning, budgeting and wise spending, banking, paying taxes, the importance of insurance, long-term investing, buying a house, consumer loans, economic principles, traveling abroad, starting a business, and analyzing business data.

***Financial Math is not eligible for math credit on the standard diploma**

Algebra I

Online/Hybrid 1.0 Credits

Pre-Requisites: None

This full-year course focuses on five critical areas: relationships between quantities and reasoning with equations, linear and exponential relationships, descriptive statistics, expressions and equations, and quadratic functions and modeling. This course builds on the foundation set in middle grades by deepening students' understanding of linear and exponential functions, and developing fluency in writing and solving one-variable equations and inequalities. Students will interpret, analyze, compare, and contrast functions that are represented numerically, tabularly, graphically, and algebraically.

Algebra I.5

Online 1.0 Credits

Pre-Requisites: Algebra I

This full-year course focuses on reviewing and building up core concepts of Algebra I while preparing students for Geometry. 1st semester Algebra 1.5 A focuses on 4 main areas of expressions, linear equations, linear inequalities, and polynomials. 2nd semester Algebra 1.5 B introduces students to the fundamentals of geometry including definitions of lines, congruency, and right angle trigonometry.

Geometry

Online/Hybrid | 1.0 Credits

Pre-Requisites: Algebra I

Offering a hands-on approach to instruction, this is an interactive course designed to introduce the basics of geometry through engaging lectures and informative lesson plans. Students will be challenged to apply previously learned knowledge to higher-level ideas such as reasoning and proof, Geometric Relationships, and Logic. This informative two-semester course covers fundamentals of shapes, surface area and volume of shapes, transformations, as well as learning strategies that include writing, analyzing, and using proofs.

Probability and Statistics

Online | 1.0 Credits

Pre-Requisites: Algebra 1.5 or Geometry

This high-school course provides an alternative math credit for students who may not wish to pursue more advanced mathematics courses such as Algebra II and Pre-Calculus. It begins with an in-depth study of probability, with a focus on conceptual understanding. Students then move into an exploration of sampling and comparing populations. The first semester closes with units on data distributions and data analysis—including how to summarize data sets with a variety of statistics. In the second half of the course, students create and analyze scatterplots and begin a basic study of regression. Then they study two-way tables and normal distributions, learning about powerful applications such as hypothesis testing. Finally, students return to probability at a more advanced level, focusing on topics such as conditional probability, combinations and permutations, and sets.

Mathematical Models

Online | 1.0 Credits

Pre-Requisites: Algebra I

Broadening and extending the mathematical knowledge and skills acquired in Algebra I, the primary purpose of math models is to use mathematics as a tool to model real-world phenomena students may encounter daily, such as finance and exponential models. Engaging lessons cover financial topics, including growth, smart money, saving, and installment loan models. Providing timely and highly useful content, this two-semester course is a must-have for any high school student.

Algebra II

Online | 1.0 Credits

Pre-Requisites: Geometry

This full-year course focuses on functions, polynomials, periodic phenomena, and collecting and analyzing data. Students will make connections between verbal, numeric, algebraic, and graphical representations of functions and apply this knowledge as they create equations and inequalities that can be used to model and solve mathematical and real-world problems. As students refine and expand their algebraic skills, they will draw analogies between the operations and field properties of real numbers and those of complex numbers and algebraic expressions.

Pre-Calculus

Online 1.0 Credits

Pre-Requisites: Algebra II

With an emphasis on function families and their representations, Pre-calculus is a thoughtful introduction to advanced studies leading to calculus. The course briefly reviews linear equations, inequalities, and systems and moves purposefully into the study of functions. Students then discover the nature of graphs and deepen their understanding of polynomial, rational, exponential, and logarithmic functions. Scaffolding rigorous content with clear instruction, the course leads students through an advanced study of trigonometric functions, matrices, and vectors

AP Calculus

Online/AP Course 1.0 Credits

Pre-Requisites: Pre-Calculus **AND**
Instructor Approval Course Fee: AP Exam Fee

AP® Calculus AB is a yearlong, college-level course designed to prepare students for the Advanced Placement (AP) Calculus AB exam. Major topics of study in this full-year course include a review of pre-calculus; the use of limits, derivatives, definite integrals, and mathematical modeling of differential equations; and the applications of these concepts. Emphasis is placed on the use of technology to solve problems and draw conclusions. The course uses a multi-representative approach to calculus, with concepts and problems expressed numerically, graphically, verbally, and analytically.

Physical Education & Health

Physical Education I+II

Online 1.0 Credits

Pre-Requisites: None

Exploring fitness topics such as safe exercise and injury prevention, nutrition and weight management, consumer product evaluation, and stress management, this course equips high school students with the skills they need to achieve lifetime fitness. Throughout this course, students assess individual fitness levels according to the five components of physical fitness: cardiovascular health, muscular strength, muscular endurance, flexibility, and body composition.

Contemporary Health I+II

Online 1.0 Credits

Pre-Requisites: None

This year-long course designed for high school students examines and analyzes various health topics. It places alcohol use, drug use, physical fitness, healthy relationships, disease prevention, relationships, and mental health in the context of the importance of creating a healthy lifestyle. Throughout the course, students examine the practices and plans they can implement in order to carry out a healthy lifestyle, and the consequences they can face if they do not follow safe health practices. In addition, students conduct in-depth studies in order to create mentally and emotionally healthy relationships with peers and family, and to devise healthy nutrition, sleeping, and physical fitness plans. Students also examine and analyze harassment and bullying laws.

Academic Support

Online Learning and Digital Citizenship

Online 0.5 Credits

Pre-Requisites: None

In this one-semester course, students develop essential study skills for academic success, such as staying organized, managing time, taking notes, applying reading strategies, writing strong papers, and researching and properly citing information. Explicit modeling and ample practice are provided for each study skill to support student mastery. A basic understanding of software and hardware and how to troubleshoot common technology issues are also taught.

Strategies for Academic Success

Online/Hybrid — 0.5 Credits

Pre-Requisites: None

Offering a comprehensive analysis of different types of motivation, study habits, and learning styles, EL1087 encourages high school and middle school students to take control of their learning by exploring varying strategies for success. Providing engaging lessons that will help students identify what works best for them individually, this one-semester course covers important study skills, such as strategies for taking high-quality notes, memorization techniques, test-taking strategies, benefits of visual aids, and reading techniques.

Math Skills

Hybrid — 1.0 Credits

Pre-Requisites: 12th Grade and
Instructor Approval

Math Skills Workshop is designed to help seniors satisfy the math essential skills requirement for their diploma. Math Skills will review major themes from Algebra, Geometry, and Statistics + Probability while working to develop a student's mathematical fluency and problem solving skills. Math skills workshop is taken for elective credit.

English Workshop

Hybrid — 1.0 Credits

Pre-Requisites: 12th Grade and
Instructor Approval

This class is designed for students who have not yet met the state benchmark in reading and/or writing. This class will focus on a variety of writing and reading strategies to help students refine skills. Students will practice extensively with moving through the steps of the writing process to produce writing that is clear, focused, developed, and organized. They will also work on creating unified and coherent paragraphs, using summary, paraphrase, and quoting as part of a writing assignment, and developing the ability to integrate and connect an author's ideas with the student's own ideas. Students will also develop and refine their critical reading skills using a variety of strategies with both literary and informational texts. They will develop an interpretation of both literary and informational texts and analyze author's purpose and craft. Students will develop documentation skills by objectively summarizing texts, weaving a relevant quote from source material into writing and practicing crediting source material using MLA style. They will work on maintaining academic honesty by acknowledging all sources in written work. Multiple reading and writing work sample opportunities will be offered throughout the course.

College and Career

Career Planning and Development

Online | 0.5 Credits

Pre-Requisites: None

Introducing high school students to the working world, EL4222 provides the knowledge and insight necessary to compete in today's challenging job market. This relevant and timely course helps students investigate careers as they apply to personal interests and abilities, develop skills and job search documents needed to enter the workforce, explore the rights of workers and traits of effective employees, and address the importance of professionalism and responsibility as careers change and evolve. This one-semester course includes lessons in which students create a self-assessment profile, a cover letter, and a résumé that can be used in their educational or career portfolio.

Career Explorations

Online | 1.0 Credits

Pre-Requisites: None

This semester-length course prepares middle and high school students to make informed decisions about their future academic and occupational goals. Through direct instruction, interactive skills demonstrations, and practice assignments, students learn how to assess their own skills and interests, explore industry clusters and pathways, and develop plans for career and academic development. This course is designed to provide flexibility for students; any number of units can be selected to comprise a course that meets the specific needs of each student's skills and interests.

STEM

Particular Topics: Quantum Tunneling

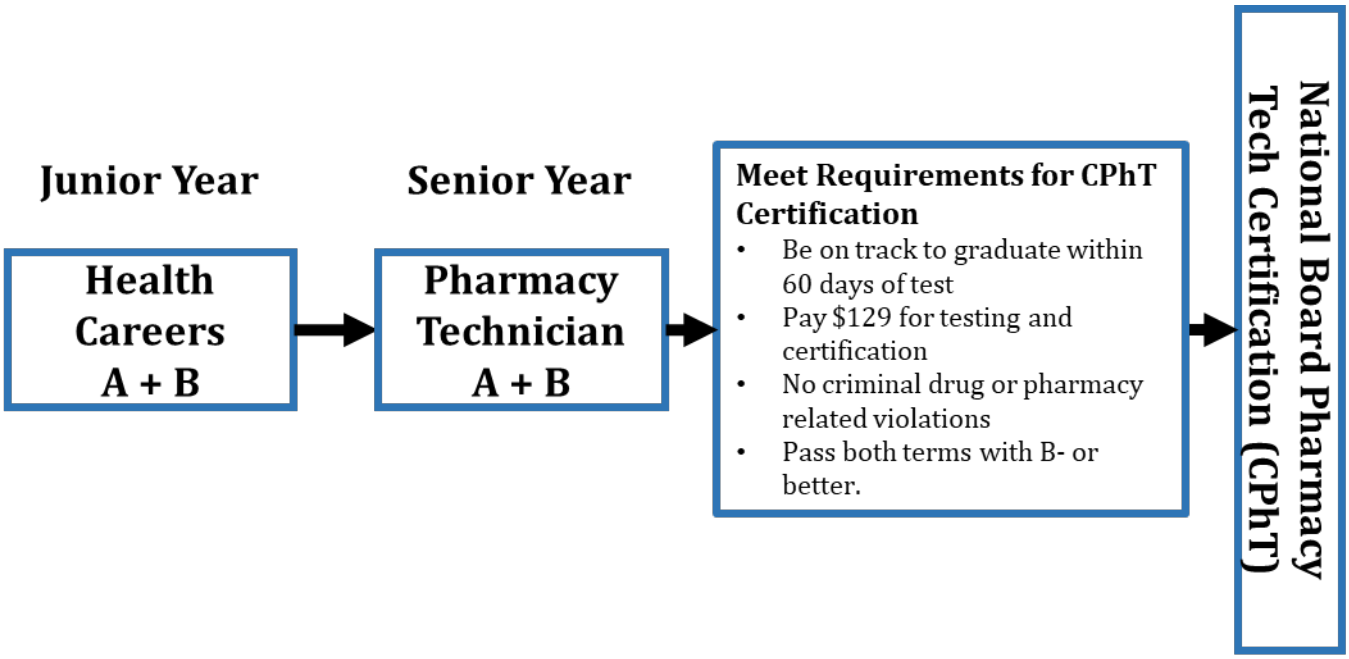
Hybrid/2nd Semester Only | 0.5 Credits

Pre-Requisites: Instructor Approval

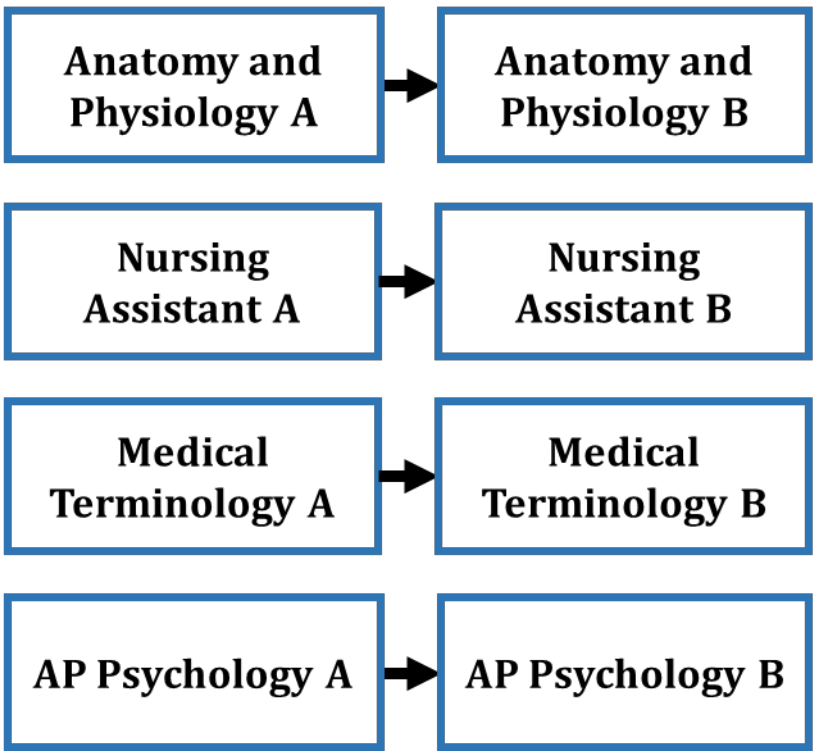
This course may be taken either for middle school or high school elective credit. Over the term students will develop an understanding of principles involved in the function of a scanning/tunneling electron microscope as they participate in the design and construction of a rudimentary S/TEM for the BLC. Students will also explore uses of the S/TEM in the scientific and industrial community by reading current literature and conducting experiments. Students are required to maintain regular attendance and give a presentation at the end of the term.

Health Science

Pharmacy Tech Certification



Health Science Electives



AP Psychology *is also a health CTE course and can be found under social studies*
Anatomy and Physiology *is also a health CTE course and can be found under science*

Intro to Health Science

Online | 1.0 Credits

Pre-Requisites: None

This high school course introduces students to a variety of healthcare careers as they develop the basic skills required in all health and medical sciences. In addition to learning the key elements of the U.S. healthcare system, students will learn terminology, anatomy and physiology, pathologies, diagnostic and clinical procedures, therapeutic interventions, and the fundamentals of medical emergency care. Throughout the course, instructional activities emphasize safety, professionalism, accountability, and efficiency for workers within the healthcare field.

Pharmacy Technician

Online/Hybrid | 1.0 Credits

Pre-Requisites: Intro to Health Science I + II

Course Fee: $129 for Test and Certification through the PTCB

This two-semester course prepares students for employment in the pharmacy technician field. Through direct instruction, interactive skills demonstrations, and practice assignments, students learn the basics of pharmacy assisting, including various pharmacy calculations and measurements, pharmacy law, pharmacology, medical terminology and abbreviations, medicinal drugs, sterile techniques, USP 795 and 797 standards, maintenance of inventory, patient record systems, data processing automation in the pharmacy, and employability skills. **Successful completion of this course prepares the student for national certification for employment as a Certified Pharmacy Technician (CPhT).**

Nursing Assistant

Online | 1.0 Credits

Pre-Requisites: Intro to Health Science I + II

This two-semester course prepares students to provide and assist with all aspects of activities of daily living and nursing care for the adult patient in hospital, long-term care, and home settings. Through direct instruction, interactive skills demonstrations, and practice assignments, students are taught the basics of nurse assisting, including interpersonal skills, medical terminology, care procedures, legal and ethical responsibilities, safe and efficient work, gerontology, nutrition, emergency skills, and employability skills. This series mirrors the concepts and practices of a CNA program for certification.

Medical Terminology

Online | 1.0 Credits

Pre-Requisites: None

This semester-long course introduces students to the structure of medical terms, including prefixes, suffixes, word roots, combining forms, and singular and plural forms, plus medical abbreviations and acronyms. The course allows students to achieve comprehension of medical vocabulary appropriate to healthcare settings, medical procedures, pharmacology, human anatomy and physiology, and pathology. The knowledge and skills gained in this course will provide students entering the healthcare field with a deeper understanding of the application of the language of health and medicine. Students are introduced to these skills through direct instruction, interactive tasks, and practice assignments.

Digital Arts

3D Art 1 - Modeling

Online/Requires Computer Program 0.5 Credits

Pre-Requisites: None

The 3D Art I – Modeling design course focuses on the fundamental concepts of 3D modeling and explores the basic concepts and skills of 3D animation. Students learn Blender® software to create 3D models such as a house, a creature, an animation of the creature walking, and a landscape terrain. Activities include using points on a grid to create mountains and a color gradient to create a sun and a moon. Students learn 3D space and 3D objects; creating, scaling, and rotating objects; materials and textures; poses and key frames; extruding and mirroring 3D objects; rendering animations; and appending materials, textures, objects, armatures, and animations.

3D Art 2 - Animation

Online/Requires Computer Program 0.5 Credits

Pre-Requisites: 3D Art I

The 3D Art II Animation design course focuses on building animation skills including realistic movement and lighting. Students learn the Blender® software workspace and tools; location and rotation properties; scripts; IP curves; vector handles; rendering and baking animations and simulations; and particle systems and emitters. Activities and projects promote key 3D animation concepts including frames and key frames, squash and stretch, action strips, walk cycles and poses, and trajectories. Students develop the skills needed to design and create animations with an understanding of the skills needed to succeed as professional animators. (Prerequisite: 3D Art I: Modeling).

Digital Art I

Online/Requires Computer Program 0.5 Credits

Pre-Requisites: None

The Digital Arts course focuses on building a solid foundation of the basic elements of visual art, then moves on to more advanced principles and elements of art and design. This course teaches core skills using Inkscape™, a free open-source alternative to Adobe® Illustrator®. Topics include learning processes for evaluating artwork, and identifying selected artists' works, styles, and historical periods. Students learn 3D space in a 2D environment; filters, gradients and highlights; and methods of working with color. By the end of this course, students will have created a unique portfolio of digital artwork, including repeating images to be used as a desktop background, a logo with text, two images scaled proportionally to one another, and a poster image and layout.

Information Technology I+II

Online/Requires Computer Program 1.0 Credits

Pre-Requisites: None

This course introduces students to the essential technical and professional skills required in the field of Information Technology (IT). Through hands-on projects and written assignments, students gain an understanding of the operation of computers, computer networks, Internet fundamentals, programming, and computer support. Students also learn about the social impact of technological change and the ethical issues related to technology. Throughout the course, instructional activities emphasize safety, professionalism, accountability, and efficiency for workers within the field of IT.

Game Design

Online/Requires Computer Program 0.5 Credits

Pre-Requisites: None

This one-semester course is intended for students who love gaming and want to design and build original games from beginning to end. Students will learn how to use Multimedia Fusion 2, a popular game design software program, to create engaging, interactive games in a variety of genres. In addition, students will get a solid foundation in the basic concepts of game development. By the end of this course, students will have a variety of polished games ready for a game-development portfolio. Step-by-step instruction guides students through various game-design projects as they learn how to use Multimedia Fusion 2.

Audio Engineering

Online/Requires Computer Program 0.5 Credits

Pre-Requisites: None

This semester-long course introduces students to audio engineering. Students learn about the physics of sound, as well as techniques for protecting hearing while working with audio. Students will learn about the history of recording technologies, as well as techniques for evaluating audio hardware, such as microphones and speakers. Students will also learn about the four stages of professional music recording projects: recording, editing, mixing, and mastering. Using Audacity, an open-source recording and mixing program, students will practice the techniques used by sound engineers to produce multitrack recordings. Students learn about the difference between proprietary, open-source, and free software licenses, as well as the most popular Digital Audio Workspace software used in the profession. Students will also learn about intellectual property issues involving audio, particularly when using other people's music. Through a series of engaging hands-on projects, students will learn the fundamental concepts of audio engineering. A series of interviews with professional audio engineers will give students a sense of the opportunities and requirements for pursuing careers in the field.

Business and Finance

Intro to Business

Online 1.0 Credits

Pre-Requisites: None

In this two-semester introductory course, students will learn the principles of business using real-world examples— learning what it takes to plan and launch a product or service in today's fast-paced business environment. This course covers an introduction to economic basics, costs and profit, and different business types; techniques for managing money, personally and as a business, and taxes and credit; the basics of financing a business; how a business relates to society both locally and globally; how to identify a business opportunity; and techniques for planning, executing, and marketing a business to respond to that opportunity.

Intro to Entrepreneurship

Online 1.0 Credits

Pre-Requisites: None

The Introduction to Entrepreneurship course teaches the skills and key business concepts students need to know to plan and launch a business, whether they are interested in creating a money-making business or a nonprofit to help others. Students learn about real-life teen entrepreneurs; characteristics of successful entrepreneurs; pros and cons of self-employment; sales stages, opportunities and strategies; planning and budgeting; and interpersonal communication in the workplace. Students also learn how to generate business ideas; create a business plan, mission, and vision; promote and market a company; attract investors; manage expenses; and set personal visions and goals.

Computer Applications

Online/Requires Computer Program 1.0 Credits

Pre-Requisites: None

This two-semester course introduces students to the features and functionality of the most widely-used productivity software in the world: Microsoft® Office®. Through video instruction, interactive skills demonstrations, and hands-on practice assignments, students learn to develop, edit and share Office® 2010 documents for both personal and professional use. By the end of this course, students will have developed basic proficiency in the most common tools and features of the Microsoft Office 2010 suite of applications: Word®, Excel®, PowerPoint®, and Outlook®.

Personal Finance

Online 0.5 Credits

Pre-Requisites: None

This one-semester elective prepares students to navigate personal finance with confidence. The course opens with a study of what it means to be financially responsible, engaging students in budgeting, planning, and being a smart consumer. Students learn about the relationship between education, employment, income, and net worth, and they plan for the cost of college. Students then broaden their study to include banking, spending, investing, and other money management concepts before exploring credit and debt. In the final unit of the course, students study microeconomics and entrepreneurship, with an overview of economic systems, supply and demand, consumer behavior and incentives, and profit principles.

Traditional Arts & Music

Intro to Art

Online 1.0 Credits

Pre-Requisites: None

Covering art appreciation and the beginning of art history, EL1086 encourages students to gain an understanding and appreciation of art in their everyday lives. Presented in an engaging format, this one-semester course provides an overview of many introductory themes: the definition of art, the cultural purpose of art, visual elements of art, terminology and principles of design, and two- and three-dimensional media and techniques. Tracing the history of art, high school students enrolled in the course also explore the following time periods and places: prehistoric art, art in ancient civilizations, and world art before 1400.

Art History I

Online 0.5 Credits

Pre-Requisites: None

Introducing art within historical, social, geographical, political, and religious contexts for understanding art and architecture through the ages, EL4002 offers high school students an in-depth overview of art throughout history, with lessons organized by chronological and historical order and world regions. Students enrolled in this one-semester course will cover topics including early Medieval and Romanesque art; art in the 12th, 13th, and 14th centuries; 15th-century art in Europe; 16th-century art in Italy; the master artists; high Renaissance and Baroque art; world art, which includes the art of Asia, Africa, the Americas, and the Pacific cultures; 18th- and 19th-century art in Europe and the Americas; and modern art in Europe and the Americas.

Art Lab

Hybrid 1.0 Credits

Pre-Requisites: Instructor Approval

This course is designed to familiarize the student with the elements and principles of design. Evaluation standards will be explained to students and provided to them as a scoring guide based on originality, composition, presentation, technical quality, and time management. Students' works will be evaluated based on the creativity of the work, while staying within the evaluation parameters provided. The goals and standards will be met by explaining the elements and principles of design in lecture format, supplemented with slides and examples of artwork.

Hybrid 1.0 Credits

Intro to Guitar

Pre-Requisites: Instructor Approval

This is a beginner class for those with little or no experience playing guitar. Students do not need to have their own personal guitar, however, if not, students will need to practice daily in study rooms with the guitars we have on-site. Topics covered in the course will include: tuning, instrument care, and basic maintenance, learning note names on the fretboard, reading music notes, rests, symbols, and guitar tablature from the printed page, basic strumming and picking patterns/techniques, performing a mixture of different song styles.