



Beehive Science and Technology Academy

2026-27 High School Course Catalog

LANGUAGE ARTS

Language Arts 9 (2 semesters, 1.0 credit)

This course emphasizes basic core language skills. The course includes the study of basic syntax, conventions, diction and organization to improve writing skills. Several reading genres help students understand writing style and purpose. Students should expect to complete homework weekly.

Language Arts 9 Honors (2 semesters, 1.0 credit)

An advanced course in reading, writing, and inquiry, with an integrated curriculum with challenging assignments aimed at preparing Honors-level students for advanced work in the study of literature and language arts. The emphasis of this course is on reading and the study of literature, reading informational text, writing, speaking and listening, and language study, which includes word knowledge and grammar skills. Topics are presented in ways that help young adolescents relate literacy skills to other aspects of their lives.

Language Arts 10 (2 semesters, 1.0 credit)

This course emphasizes basic core language skills. The course includes the study of basic syntax, conventions, diction and organization to improve writing skills. Several reading genres help students understand writing style and purpose. This course will focus on college and career ready anchor standards for English Language Arts. The English Language Arts standards include skills for writing, reading, speaking and listening.

Language Arts 11 (2 semesters, 1.0 credit)

This course emphasizes basic core language skills. The course includes the study of basic syntax, conventions, diction and organization to improve writing skills. Several reading genres help students to understand writing style and purpose. Students should expect to complete homework weekly.

Language Arts 12 (2 semesters, 1.0 credit)

This course emphasizes literary reading and writing for seniors. The course introduces students to literary analysis through critical reading of several genres. It includes an introduction to advanced essay writing and discussion skills. The course emphasizes reading and writing for students who are considering career options which may include a college or university education. It provides instruction and course work which focuses on vocabulary, research and study skills as well as reading of several genres.

AP English Language and Composition (2 semesters, 1.0 credit)

This course is a college level rhetoric and composition course intended for highly motivated students interested in earning college credit. The course emphasizes critical reading of nonfiction texts such as essays, memoirs, speeches, and arguments. In addition, AP Language and Composition focuses on a range of composition skills, providing students opportunity to hone their analytical, argumentative, and rhetorical skills. Students can earn college credit by passing the AP exam in May.

AP Seminar (2 semesters, 1.0 credit)

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Students learn to investigate a problem or issue, analyze arguments, compare different perspectives, synthesize information from multiple sources, and work alone and in a group to communicate their ideas. This course gives you college credit for an elective. Completing this course is impressive on college applications. *Available for English credit only in 11th/12th grades. May be taken for elective credit by 10th grade.*

MATHEMATICS

Secondary Math 1 (2 semesters, 1.0 credit)

Students in Secondary Mathematics I focus on linear and exponential relationships, congruent figures, reasoning with equations, and interpreting data. Additionally, students will make connections between algebra and geometry through coordinates.

Secondary Math 1 Honors (2 semesters, 1.0 credit)

Honors level math course that focuses on linear and exponential relationships, congruent figures, reasoning with equations, and interpreting data. Additionally, students will make connections between algebra and geometry through coordinates.

Secondary Math 2 (2 semesters, 1.0 credit)

The focus of Mathematics II is on quadratic expressions, equations, and functions; comparing their characteristics and behavior to those of linear and exponential relationships from Secondary Mathematics I as organized into 6 critical areas, or units. The study of similarity leads to an understanding of right triangle trigonometry and connects to quadratics through Pythagorean relationships. Circles are studied and linked to their quadratic algebraic representations. The connection between probability and data is explored through counting methods, experiments, theory, making and evaluating decisions. *Prerequisite: Secondary Math 1 OR placement test and teacher approval.*

Secondary Math 2 Honors (2 semesters, 1.0 credit)

The focus of Secondary Mathematics II is on quadratic expressions, equations, and functions; comparing their characteristics and behavior to those of linear and exponential relationships from Secondary Mathematics I as organized into 6 critical areas, or units. The study of similarity leads to an understanding of right triangle trigonometry and connects to quadratics through Pythagorean relationships. Circles are studied and linked to their quadratic algebraic representations. The connection between probability and data is explored through continual probability, counting methods, experiments, theory, making and evaluating decisions. *Prerequisite: Secondary Math 1 OR placement test and teacher approval.*

Secondary Math 3 (2 semesters, 1.0 credit)

This class will focus on pulling together and applying the accumulation of learning from previous courses. The following topics will be covered: probability, statistics, functions,

polynomial, rational, and radical functions. *Prerequisite: Secondary Math 2 OR placement test and teacher approval.*

Secondary Math 3 Honors (2 semesters, 1.0 credit)

This class will focus on pulling together and applying the accumulation of learning from previous courses. The following topics will be covered: probability, statistics, functions, polynomial, rational, and radical functions. *Prerequisite: Secondary Math 2 OR placement test and teacher approval.*

AP Calculus AB (2 semesters, 1.0 credit)

AP Calculus AB is an introductory college-level calculus course. Students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions. Students can earn college credit by passing the AP exam in May. *Prerequisite: Secondary Math 3 OR an A in Secondary Math 2 Honors and teacher approval..*

SCIENCE

Biology (2 semesters, 1.0 credit)

Biology exposes students to a wide range of biological science topics in molecular biology, heredity and genetics, microorganisms, plants, invertebrates, vertebrates, and ecology. This course is designed to meet the diversified needs of students who require biology for future employment or education.

Chemistry (2 semesters, 1.0 credit)

Chemistry is the study of matter and its properties, energy and changes. Topics covered include atomic theory, equations, the states of matter, equilibrium and applications of chemistry in society. These concepts will be discussed in the classroom and demonstrated or practiced in a laboratory setting.

Honors Chemistry (2 semesters, 1.0 credit)

This chemistry course is designed for the college bound student. Principles, concepts and quantitative thinking are emphasized. The course will cover atomic theory, reaction types, equilibrium, kinetics and other principles of Chemistry. These concepts will be discussed in the classroom and demonstrated or practiced in a laboratory setting. An emphasis is also placed on quantitative relationships of the principles covered. This course is designed to prepare the student for AP Chemistry.

Medical Anatomy & Physiology (2 semesters, 1.0 credit)

This comprehensive course provides an in-depth exploration of human anatomy and physiology, focusing on the structure and function of various body systems. Students will begin by studying the body plan and organization, understanding the concept of homeostasis, and the basic principles of body chemistry essential for cellular processes.

The course covers the foundational aspects of cellular biology, including the structures and functions of cells, and delves into histology to explore the microscopic anatomy of tissues, as well as the integumentary system, which includes the skin and its related structures.

Subsequent sections will examine the major body systems in detail:

- **Skeletal System:** The study of bone structures and functions, along with the components of the skeletal system.
- **Muscular System:** Understanding the structures, types, and functions of muscles in the body.
- **Nervous System and Special Senses:** An overview of the nervous system's structures, functions, and special senses like vision and hearing.
- **Endocrine System:** Exploring the hormonal regulation of body processes.
- **Cardiovascular and Respiratory Systems:** Analyzing the heart, blood vessels, and respiratory organs and their role in maintaining vital functions.
- **Digestive, Urinary, and Reproductive Systems:** Describing the structures and functions involved in nutrient absorption, waste elimination, and reproduction.
- **Lymphatic System:** The study of immune responses and fluid balance.

Through lectures, readings, and practical applications, students will gain a holistic understanding of human biology, learning how the various systems interact to maintain health and function. This course is designed for students pursuing careers in health sciences, biology, or any field requiring a foundational knowledge of human anatomy and physiology. (not offered 2026-27)

This course can count as either CTE OR science.

Physics (2 semesters, 1.0 credit)

This course is a mathematical treatment of the principles of physics. Mechanics, electricity, heat, light, and sound are studied. In both the lectures and the laboratory experiments, emphasis is placed on quantitative relationships. (not offered 2026-27)

AP Biology (2 semesters, 1.0 credit)

This course provides in-depth coverage of the biological concepts taught in first year university biology courses. Students cultivate their understanding of biology through inquiry-based lab investigations as they explore the four Big Ideas: evolution; energetics; information storage & transmission; and systems interactions. The course follows College Board guidelines. Students may receive college credit by passing the AP exam in May. *Recommended prerequisite: Biology OR Chemistry.*

AP Chemistry (2 semesters, 1.0 credit)

AP Chemistry is an introductory college-level chemistry course. Students cultivate their understanding of chemistry through inquiry-based lab investigations as they explore the four Big Ideas: scale, proportion, and quantity; structure and properties of substances; transformations; and energy. The course follows College Board guidelines. Students can earn college credit by passing the AP exam in May. *Recommended prerequisite: Biology, Honors Chemistry or B or higher in Chemistry.*

AP Physics 1: Algebra-Based (2 semesters, 1.0 credit)

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through classroom study, in-class activity, and hands-on,

inquiry-based laboratory work as they explore concepts like systems, fields, force interactions, change, and conservation. Not offered 2025-26. *Recommended prerequisite: Secondary Math 2 or teacher approval*

AP Physics 2: Exploring the Hidden Laws of the Universe (2 semesters, 1.0 credit)

Step beyond the world of moving blocks and falling objects to explore the invisible forces that power our modern world. **AP Physics 2** is a second-semester, college-level, algebra-based course that dives into the complex and fascinating phenomena of the microscopic and macroscopic universe.

In this course, you will transition from classical mechanics to the cutting edge of physical science, mastering the principles behind everything from the behavior of deep-sea fluids to the quantum nature of the atom.

What You'll Discover

The curriculum is organized into seven core units designed to build deep conceptual understanding:

- **Thermodynamics:** Master the laws of heat, energy transfer, and the kinetic theory of gases.
- **Electric Force, Field, and Potential:** Map the invisible "landscapes" of electricity.
- **Electric Circuits:** Design and analyze complex systems including resistors and capacitors.
- **Magnetism & Electromagnetism:** Uncover how moving charges create magnetic fields and power our technology.
- **Geometric & Physical Optics:** Trace the path of light through lenses and explore the wave-like nature of interference and diffraction.
- **Modern Physics:** Peer into the quantum world, exploring radioactive decay, the photoelectric effect, and nuclear reactions.

Recommended Prerequisites: AP Physics 1, Physics.

Biotechnology & BTEC 1000 (CE Biotechnology) (2 semesters, 1.5 credit)

Biotechnology is an exploratory course designed to introduce students to methods and technologies that support bioscience research and practice. Students are also introduced to career possibilities in the field of biotechnology. This course is especially recommended for anyone who is taking or has taken AP Biology. (not offered 2026-27)

AP Environmental Science (2 semesters, 1.0 credit)

This course provides in-depth coverage of the environmental science concepts taught in introductory university ecology courses. Students cultivate their understanding of environmental science through inquiry-based lab investigations and fieldwork. You will explore the interrelationships of the natural world and analyze environmental problems, both natural and human-made. The course follows College Board guidelines. Students may receive college credit by passing the AP exam in May. *Recommended prerequisite: Biology OR Chemistry.*

SOCIAL SCIENCE

AP Human Geography (2 semesters, 1.0 credit)

This course introduces students to the systematic study of patterns and processes that have shaped human understanding, use and alteration of Earth's surface. Students learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. Students also learn about the methods and tools geographers use in their research and applications. Students who earn a qualifying score on the AP Exam receive college credit.

World Geography (1 semester, 0.5 credit)

Geography is the study of physical and human characteristics of the Earth's people, places, and environments. Students will develop geographic thinking skills by studying the "why of where" as they examine the interactions, interconnections, and implications of forces shaping our world today.

World History (2 semesters, 1.0 credit)

This will be a survey study of World History, beginning with early man to the present. The course will follow the progression of civilizations and analyze how their contributions still impact society today. The course emphasizes the increasing interrelationships over time of the world's peoples. It also explores how interrelationships have developed within all aspects of human activity: political, economic, social, philosophical and religious, scientific, and technological, and artistic.

10th grade students have to choose between AP World History and World History as their 10th grade social science course.

AP World History (2 semesters, 1.0 credit)

This program is an accelerated class specifically designed to prepare students for advanced placement courses and college work. The course is designed for self-motivated learners who want a strong academic program with more work and study than the regular World History course. This course will emphasize essay writing and analytical interpretation of documents and events. Course materials will be drawn from ancient civilization, non-Western history, development of the modern world, and from the international, economic, political and social issues of the twentieth century. Equivalent to college level introductory course in World History. Students can earn college credit by passing the AP exam in May.

10th grade students have to choose between AP World History and World History as their 10th grade social science course.

US History II (2 semesters, 1.0 credit)

This class includes the study of selected areas from United States history focusing on the period of time since the American Civil War to current events. The class will incorporate economics and the operation of the free enterprise system as it fits into the areas of being studied.

AP US History (2 semesters, 1.0 credit)

Advanced Placement United States History (APUSH) is a rigorous, college-level course that explores the development of the United States from pre-Columbian societies to the present. Designed for motivated high school students, the course emphasizes critical thinking, historical analysis, and evidence-based argumentation.

Students will examine key themes such as politics and power, American identity, migration and settlement, economic systems, culture and society, and America's role in the world. Through the analysis of primary and secondary sources, including speeches, letters, maps, political cartoons, and scholarly interpretations, students will develop the skills necessary to think like historians.

US Government & Citizenship (1 semester, 0.5 credit)

This course covers the foundations of American government, political behavior, and the three branches of the federal government.

US Government & Citizenship Honors (1 semester, .5 credit)

This course covers the foundations of American government, political behavior, and the three branches of the federal government. This will be taught at an honors level. (not offered 2026-27)

HEALTH & PHYSICAL EDUCATION

Fitness for Life (1 semester, 0.5 credit)

This course is designed to help each student become involved in and adopt a personal lifestyle of regular physical fitness. Students will understand fitness components including weight control, caloric expenditure, heart rate, and stress management.

Health Education 2 (1 semester, 0.5 credit)

Students will develop knowledge, skills, and attitudes necessary for practicing lifelong, health enhancing behaviors. The curriculum builds upon the foundation established in health classes taken in middle school.

Participation Skills (1 semester, 0.5 credit)

This semester class offers students instruction in lifetime activities and fulfills one P.E. requirement for high school graduation. Individual, dual, and team sports activities are included, with the emphasis on activities offering lifelong participation.

Individualized Lifetime Activities (1 semester, 0.5 credit)

The curriculum provides diverse offerings to meet the individual needs of all students and to develop competency in specific activities. Competency is defined as the ability to apply basic skills, strategies, and rules using standardized guidelines or rubrics.

WORLD LANGUAGE

Spanish I (2 semesters, 1.0 credit)

Students will develop basic oral auditory and written communication in the target language in order to interact on familiar topics. Collaborative efforts will be made to produce dialogues and situations needed for familiar survival situations. Students will develop an understanding and sensitivity to target cultures.

Spanish 1 Honors (2 semesters, 1.0 credit)

Honors Spanish I is a fast-paced course for students who are motivated to learn Spanish at a deeper level. Students will be immersed in Spanish through frequent speaking, listening, reading, and writing activities. The course emphasizes conversation, real-life communication, and independent thinking while building a strong foundation in the language. Students will also explore the cultures of Spanish-speaking countries and develop cultural awareness.

Spanish II (2 semesters, 1.0 credit)

Skills will continue to develop oral, written and listening skills in the target language. Students will also understand, interpret and respond to written and spoken language on a variety of topics. Students will also explore and analyze differences across the cultures.

Prerequisite: Spanish I

Spanish II Honors (2 semesters, 1.0 credit)

Honors Spanish II is an accelerated course for students who are ready to build on their Spanish I skills at a faster pace. Students will strengthen their speaking, listening, reading, and writing abilities through increased use of Spanish in class and frequent conversation. The course emphasizes understanding and responding to spoken and written Spanish on a wider range of topics while encouraging independent language use. Students will also further explore and compare cultures of Spanish-speaking countries. *Prerequisite: Spanish I*

Spanish III (2 semesters, 1.0 credit) *prerequisite: Spanish II

Available online only, with teacher approval

AP Spanish (2 semesters, 1.0 credit) *prerequisite: Spanish III

Available online only, with teacher approval

DIGITAL LITERACY

Computer Programming I (1 semester, .5 credit)

This is an introductory course in program engineering and applications. The course introduces students to the fundamentals of computer programming. Students will learn to design, code, and test their own programs while applying mathematical concepts. The teacher will introduce basic coding concepts and problem solving skills. This class is currently required for 10th grade students.

Computer Science Principles (1. Semester, .5 credit)

This course introduces students to the breadth of the field of computer science. In this course students will learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They will use data to discover new knowledge. Students will also explain how computing innovations and computing systems, including the internet, work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical. This course is currently required for 9th grade students.

Web Development I (1 semester, .5 credit)

The Web Development curriculum is an introduction to the design, creation, and maintenance of web pages and websites. Students learn how to critically evaluate website quality, learn how to create and maintain quality web pages, learn about web design standards and why they're important, and learn to create and manipulate images. The course progresses from introductory work on web design to a culminating project in which students design and develop a website.

ADDITIONAL REQUIRED CLASSES

ACT Prep (1 semester, 0.5 credit) (11th)

This course prepares students to achieve higher ACT English and ACT Math scores by improving content area knowledge, teaching test-taking strategies, and providing practice test opportunities. All sections cover Math, Science, and English preparation.

College & Career Planning (1 semester, .5 credit) (12th)

Students in this class will receive an overview of college and career planning, as well as topics related to becoming an adult. Students will have the opportunity to spend time working on college and scholarship applications. Students will leave with a portfolio describing their achievements.

General Financial Literacy (1 semester, .5 credit) (11th)

Financial literacy will provide a better understanding of personal finance as students move into adulthood making more informed monetary decisions, realizing a greater potential personal wealth, and fostering a stronger state and national economy. Topics include income, money management, spending & credit, saving & investing, consumer protection, and risk management.

FINE ARTS

ART 1020 Introduction to Drawing (CE) (1 semester, 1.0 credit) (priority 10th and up)

This class introduces the principles of visual awareness and drawing, rendering three-dimensional reality on a two-dimensional surface. Students will learn contour, shape, space, perspective, and principles of foreshortening. In addition, the course will include a study of value and light logic. Students will also learn the history and development of perspective drawing. Students will keep a creative journal throughout the course. Although this course is open to all high school students, 10th grade and up will be prioritized.

Choir 1 (1 semester, .5 credit) (9th-12th)

Come explore your voice with CHOIR!!! This course provides opportunities for students to develop their musical potential and aesthetic understanding through singing in a choral ensemble. Study includes the care and cultivation of a beautiful tone, aesthetic awareness, the ability to read music, the building of technical skills, team spirit, and responsible rehearsal habits. Students will have opportunities to experience the spontaneity of improvisation and the creative process of composition. Students will strengthen their listening skills and their ability to analyze and evaluate music and music performances. Attention will also be given to relating their music experiences to personal development. No prerequisite course is required.

Digital Photography (1 Semester, 0.5 credit) (priority 10th and up)

This course prepares individuals to use artistic techniques to effectively communicate ideas and information to business and consumer audiences via the use of digital photography. Instruction includes a history of photography, training in specialized camera and camera equipment operation, software usage, maintenance, copyright laws, fair use provisions, etc. This is a beginning course, which will cover basic concepts for image capture, image editing, and image output. (\$25 fee)

Guitar Level 1 (1 semester, .5 credit) (9th-12th)

This course provides opportunities for students to develop their musical potential and aesthetic understanding through learning to play guitar. Emphasis will be placed on playing position, tone production, fundamental technique, simultaneous playing and singing, reading music, and composing songs/lyrics. Knowledge and skills will include experiences in singing, creating, performing, responding, and connecting to cultures. (Not offered 2026-27)

High School Art Foundations (1 semester, 5 credit)

[Course description coming]

Music Appreciation (1 semester, 0.5 credit) (9th-12th)

This course is designed for students who seek the opportunity to extend their musical understanding, heighten music listening skills, and increase their ability to respond more fully to music. Experiences will include opportunities to experiment with sounds, analyze famous compositions representative of most styles, and inquire into music's connections to contemporary life, history, and cultures. (Not offered 2026-27)

Music in the Media (Music Composition) (1 semester, .5 credit) (9th-12th)

Through composition, students will explore, analyze, and connect how music influences the media and everyday life. Students will master standard and/or iconic notation and/or software-based notation and/or recording technology to document original rhythmic, melodic, or harmonic ideas. Students will gain an understanding of basic music elements and theory. Knowledge and skills will include experiences in creating, performing, responding, and connecting to cultures. Class projects include: "Phone Ringtone," "Product Jingle," and "Video Game Concept and Theme." *No pre-requisite course is required.*

CAREER & TECHNOLOGY EDUCATION

Accounting I (not offered 2026-27)

[Course description coming]

Accounting II (not offered 2026-27)

[Course description coming]

AP Computer Science A (2 semesters, 1.0 credit)

This is an introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures. Students can earn college credit by passing the AP exam in May.

AP Computer Science Principles (2 semesters, 1.0 credit)

This course offers a multidisciplinary approach to teaching the underlying **principles** of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. Students can earn college credit by passing the AP exam in May. (not offered 2026-27)

Virtual Reality (AR/VR) (1 semester, .5 credit)

Separating hype from reality is hard, especially in the fast-growing and evolving space of augmented and virtual reality (AR/VR). Recent advances in technology have allowed AR/VR systems to become extremely sophisticated and realistic. This course introduces students to the technologies that underpin AR/VR systems. Then the course walks through 5 applications of AR/VR and how they will change and impact numerous aspects of our lives and the economy. Students will also learn about and discuss the risks and side effects of these systems, including health, privacy, and ethical implications. (not offered 2026-27?)

Biotechnology & BTEC 1000 (CE Biotechnology) (2 semesters, 1.5 credit)

Biotechnology is an exploratory course designed to introduce students to methods and technologies that support bioscience research and practice. Students are also introduced to career possibilities in the field of biotechnology. This course is especially recommended for anyone who is taking or has taken AP Biology. (not offered 2026-27)

Computer Aided Design (CAD) 1 (1 semester, .5 credit)

The first in a sequence of courses that prepares individuals to plan and prepare scale, isometric drawings and technical documentation of engineering and design concepts. This includes standard engineering practices in design and graphics including the use and application of computer software to create and modify designs. ***Can be taken as a CE class: EDDT 1040.*** (not offered 2026-27)

Computer Aided Design (CAD) 2 (1 semester, .5 credit)

This course prepares individuals to develop 3D models and 2D technical drawings for the mechanical and industrial engineering industry. This includes instruction in the use of 3D modeling software to create models and produce drawings. ***Can be taken as a CE class: EDDT 1010. Prerequisite: CAD 1.*** (not offered 2026-27)

Computer Programming I (1 semester, .5 credit)

This is an introductory course in program engineering and applications. The course introduces students to the fundamentals of computer programming. Students will learn to

design, code, and test their own programs while applying mathematical concepts. The teacher will introduce basic coding concepts and problem-solving skills.

Computer Programming II (1 semester, .5 credit)

This course introduces students to more advanced programming concepts. Students will learn to create more powerful programs within a specific programming language such as Java, Python, C++, or C#. *Prerequisite: Computer Programming I.*

Computer Science Principles (1 Semester, .5 credit)

This course introduces students to the breadth of the field of computer science. In this course students will learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They will use data to discover new knowledge. Students will also explain how computing innovations and computing systems, including the internet, work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical.

CTE Internship (1 semester, .5 credit) (11th/12th grade only)

The CTE Internship is a Work-Based Learning experience designed to bridge the gap between school and work. It provides on the job training opportunities that are related to a student's career goal and course of study identified through the student's individual College and Career Ready Plan. (40 hours=.5 credit). Students must provide their own transportation.

EDDT 1010- Intro to AutoCAD (9th-12th) (1 semester, 1.0 credit)

Basic skills using AutoCAD for drawing applications are taught. The course includes: draw and modify commands, geometric construction, dimensions, templates, blocks and libraries, hatching, layers, scales, and plotting. **(Taught concurrently with high school CAD 2)**

Prerequisite: CAD 1. (not offered 2026-27)

EDDT 1040- Intro to Engineering & Design (9th-12th) (1 semester, 1.0 credit)

The use of design tools to create and understand Orthographic Projection, Section views, Dimensioning, Sketching, Assembly drawings, Tolerancing and Fasteners. An introduction to Electronics, Manufacturing and Machining and how they all fit together will also be discussed. **(Taught concurrently with high school CAD 1).** (not offered 2026-27)

Electronics 1 (9th-12th) (1 semester, .5 credit)

The first in a sequence of courses that prepares individuals to apply technical knowledge and skills to assemble and operate electrical/electronic equipment used in business, industry, and manufacturing. Instruction includes training in safety, electrical theory, parallel & series circuits, Kirchoff's Laws, schematic diagrams, electrical components, and soldering.

ENGR 1070- Robotics in the World (9th-12th) (1 semester, 1.0 credit)

Robotics technology influences every aspect of work and home life. This technology, a cornerstone application of physical laws, has evolving usage in many fields that will be discussed in this class such as: healthcare, agriculture, aerospace, business, and everyday society. This course also introduces students to the basic concepts of programming robotics. **(Taught concurrently with high school Robotics 2)** *Prerequisite: Robotics 1*

Entrepreneurship (1 semester, .5 credit)

Students will gain an understanding of the marketing and management principles necessary to start and operate their own business. They will develop an awareness of the opportunities for small business ownership and develop the planning skills needed to open a small business. Students will become aware of the traits and characteristics of successful entrepreneurs.

Game Development Fundamentals 1 (1 semester, .5 credit)

This course is designed to provide students with knowledge and project-based experience of fundamental gaming development concepts relating to STEM. These concepts include game design, scripting, creation of digital assets, graphic resources, animations, understanding hardware, problem solving, critical thinking, collaboration, and project management.

Game Development Fundamentals 2 (1 semester, .5 credit)

This course is designed to provide students with knowledge and project based experience of fundamental gaming development concepts relating to STEM. These concepts include game design, scripting, creation of digital assets, graphic resources, animations, understanding hardware, problem solving, critical thinking, collaboration, and project management.

Prerequisite: Game Development Fundamentals 1.

Introduction to Health Science (1 semester, .5 credit)

This semester course is designed to create an awareness of career possibilities in health care and inform students of the educational options available for health science and health technology programs. Instruction includes beginning anatomy and physiology, medical terminology, medical ethics, diseases, and disorders. The course prepares students for the Medical Anatomy/Physiology course and/or for a variety of health technology programs.

Marketing I (1 semester, .5 credit)

Marketing 1 explores the seven core functions of marketing which include: Marketing Planning – why target market and industry affects businesses; Marketing-Information Management –why market research is important; Pricing – how prices maximize profit and affect the perceived value; Product/Service Management – why products live and die; Promotion – how to inform customers about products; Channel Management – how products reach the final user; and Selling – how to convince a customer that a product is the best choice. Students will utilize knowledge in hands-on projects which may include: Conducting research, creating a promotional plan, pitching a sales presentation, and introducing an idea for a new product/service. We will use a social media simulation platform in this course and students will also be able to earn a Social Media Certification in this course to put on their resume.

(not offered 2026-27)

Medical Anatomy & Physiology (2 semesters, 1.0 credit)

This comprehensive course provides an in-depth exploration of human anatomy and physiology, focusing on the structure and function of various body systems. Students will begin by studying the body plan and organization, understanding the concept of homeostasis, and the basic principles of body chemistry essential for cellular processes.

The course covers the foundational aspects of cellular biology, including the structures and

functions of cells, and delves into histology to explore the microscopic anatomy of tissues, as well as the integumentary system, which includes the skin and its related structures.

Subsequent sections will examine the major body systems in detail:

- **Skeletal System:** The study of bone structures and functions, along with the components of the skeletal system.
- **Muscular System:** Understanding the structures, types, and functions of muscles in the body.
- **Nervous System and Special Senses:** An overview of the nervous system's structures, functions, and special senses like vision and hearing.
- **Endocrine System:** Exploring the hormonal regulation of body processes.
- **Cardiovascular and Respiratory Systems:** Analyzing the heart, blood vessels, and respiratory organs and their role in maintaining vital functions.
- **Digestive, Urinary, and Reproductive Systems:** Describing the structures and functions involved in nutrient absorption, waste elimination, and reproduction.
- **Lymphatic System:** The study of immune responses and fluid balance.

Through lectures, readings, and practical applications, students will gain a holistic understanding of human biology, learning how the various systems interact to maintain health and function. This course is designed for students pursuing careers in health sciences, biology, or any field requiring a foundational knowledge of human anatomy and physiology. (Not offered 2026-27)
This course can count as either CTE OR science.

Medical Terminology (1 semester, .5 credit)

This course helps students understand the Greek- and Latin-based language of medicine and health care. Emphasis is placed on word roots, suffixes, prefixes, abbreviations, symbols, anatomical terms, and terms associated with the movements of the human body. This course also stresses the correct pronunciation, spelling and usage of medical terminology. This class is helpful to anyone considering going into the healthcare field.

Mobile Development Fundamentals (1 semester, .5 credit)

This course is designed to teach skills to develop apps for phones, tablets and other devices that run on a variety of operating systems. Students will learn core mobile development skills. Experience or knowledge of the following topics will be beneficial during this course: C#, Visual Studio, .NET, HTML5, SQLite, CSS, Javascript, ASP.NET MVC, Swift, and other phone operating tools.

Principles of Cyber Defense and Ethics (1 semester, .5 credit)

This course is about cybersecurity. We'll play both the good guys and the bad guys, try to block hackers and try to hack in. We'll go over firewalls, encryption, cloud, deepfake, malware, phishing, ransomware, spoofing, etc.? This is a beginning course, but we will go deep, and have loads of fun doing so.

Robotics I (1 semester, .5 credit)

This course is the first in a sequence that prepares individuals with a lab-based, hands-on curriculum combining electrical, mechanical and engineering principles. Students will learn to design, build, program and control robotic devices. A rigorous study and application of electrical concepts will include: sources of energy, electrical safety, use and identification of basic

electronic components, sensors and actuators. Engineering concepts will include: mechanical design, prototype development, design testing, programming, and proper engineering documentation.

Robotics II (1 semester, .5 credit)

The second in a sequence of courses that prepares individuals with a lab-based, hands-on curriculum combining electrical, mechanical and engineering principles. Students will learn to design, build, program, and control robotic devices. A rigorous study and application of electrical concepts will include: sources of energy, electrical safety, use and identification of basic electronic components, sensors and actuators. Engineering concepts will include: mechanical design, prototype development, design testing, programming, and proper engineering documentation. ***Can be taken as a CE class: ENGR 1070. Prerequisite: Robotics I.***

Web Development I (1 semester, 0.5 credit)

The Web Development curriculum is an introduction to the design, creation, and maintenance of web pages and websites. Students learn how to critically evaluate website quality, learn how to create and maintain quality web pages, learn about web design standards and why they're important, and learn to create and manipulate images. The course progresses from introductory work on web design to a culminating project in which students design and develop websites.

Web Development II (1 semester, .5 credit)

[Course description coming]

HIGH SCHOOL ELECTIVE COURSES

Advanced Math Competitions (AMC 10 Prep) (2 semesters, 1.0 credit) (9th-12th)

[Course description coming]

Admin/Teacher Aide (1 semester, 0.5 credit) (11th/12th)

This course is used for students serving as a student aide/assistant for administrators or teachers. Pass/fail only.

Independent Study (1 semester, 0.5 credit) (12th)

This course is designed to provide academic support to students in their core content and/or credit recovery coursework. Pass/fail only.

Speech & Debate (2 semesters, 1.0 credit)

This year-long elective course develops foundational skills in public speaking, argumentation, and research equipping students to construct persuasive arguments and deliver engaging speeches. Students explore various formats--including debate, extemporaneous speaking and original oratory--while fostering critical thinking, confident communication and civil

discourse.

Study Table-HS (1 semester, 0.5 credit) (9th-12th)

This class is for students to work on homework, get help from their teacher and complete or lessen schoolwork at the school. Great for students who may need extra class time to work on assignments.

TSA (1 semester, .5 credit, repeatable)

This class will branch off of the Technology Student Association Club. Students previously in TSA will have priority when registering for this course.

TSA stands for Technology Student Association. This is a competitive team that competes in the spring semester. Students who register for this elective are required to compete in the TSA state competition and attend the TSA club on Thursdays during club time.

The Technology Student Association (TSA) is a national organization of students engaged in STEM (science, technology, engineering, and mathematics). Competitions are categorized by careers in Architecture and Construction Technology, Communications Technology, Computer Science and Information Technology, Leadership, Manufacturing and Transportation Technology, STEM (General), STEM and the Arts, and Technology and Research.

In this class, students will learn about the different TSA categories, choose several they are interested in, and create their projects to compete in the state TSA competition in the spring. Students are expected to commit to stay in TSA all year if they take this elective class.

Work Experience (1 semester, .5 credit) (10th-12th)

Students may earn high school credit by working at a part time job. Students must supply documentation of hours worked. 120 hours=.5 credit. Pass/fail only.

CONCURRENT ENROLLMENT/APPLIED TECHNOLOGY

***Students who are interested in taking applied technology courses are encouraged to sign up through a local applied technology program. BSTA will grant high school credit for applied technology according to the number of hours contained in their program.**

***Students who are interested in earning college credit may take concurrent enrollment classes through Salt Lake Community College or Southern Utah University. SLCC limits CE classes to 3 per term, and most of these classes are limited to 11th/12th grade.**

Early college classes are also available at the University of Utah. Talk to your counselor about this option.

The following classes are offered on site at Beehive Academy (credit offered through SLCC):

ART 1020 Introduction to Drawing (CE) (1 semester, 1.0 credit) (priority 10th and up)

This class introduces the principles of visual awareness and drawing, rendering three-dimensional reality on a two-dimensional surface. Students will learn contour, shape, space, perspective, and principles of foreshortening. In addition, the course will include a study of value and light logic. Students will also learn the history and development of perspective

drawing. Students will keep a creative journal throughout the course. Although this course is open to all high school students, 10th grade and up will be prioritized.

BTEC 1000 Biotechnology (CE) (1 semester, 1.0 credit) (9th-12th)

Biotechnology uses materials from living organisms to improve the quality of life: insulin saves lives, smallpox has been eradicated, and altered organisms can produce biofuel. In this course, students conduct experiments that are used in biotechnology, explore current global issues, and consider the ethical implications and conflicts inherent in altering living organisms to improve lives. (This class is combined with Biotechnology as a full year class). (Not offered 2026-27)

CSIS 1030- Computer Science Principles (1 semester, 1.0 credit) (9th-12th)

Understand the world of computing that surrounds you: technology's impact on society, hardware, SOHO networking, threats, Google as a verb, ethics/policy, file management, standards, disaster recovery & remote computing.

CSIS 1400- Fundamentals of Programming (1 semester, 1.0 credit) (9th-12th)

Object oriented design using UML: problem statement and glossary, use case diagram and scenarios, activity diagram, role/object mapping, and class diagrams. Introduction to Java: data types, control structures, methods and classes, arrays and introduction to the Java API.

EDDT 1010- Intro to AutoCAD (1 semester, 1.0 credit) (9th-12th)

Basic skills using AutoCAD for drawing applications are taught. The course includes: draw and modify commands, geometric construction, dimensions, templates, blocks and libraries, hatching, layers, scales, and plotting. (Not offered 2026-27)

EDDT 1040- Intro to Engineering & Design (1 semester, 1.0 credit) (9th-12th)

The use of design tools to create and understand Orthographic Projection, Section views, Dimensioning, Sketching, Assembly drawings, Tolerancing and Fasteners. An introduction to Electronics, Manufacturing and Machining and how they all fit together will also be discussed. (Not offered 2026-27)

ENGR 1070- Robotics in the World (1 semester, 1.0 credit) (9th-12th)

Robotics technology influences every aspect of work and home life. This technology, a cornerstone application of physical laws, has evolving usage in many fields that will be discussed in this class such as: healthcare, agriculture, aerospace, business, and everyday society. This course also introduces students to the basic concepts of programming robotics.

Concurrent Enrollment (CE) classes available while attending BSTA (subject to change)

AMTG 1200 Aircraft Maintenance Technician-Intro to Aviation (SUU)
ANTH 1010 Cultural Anthropology (SLCC)
ART 1010 Intro to Visual Arts (SLCC, SUU)
ART 1020 Intro to Drawing (available in person at BSTA) (SLCC)
ART 1080 Photoshop & Digital Media (SLCC)
ART 1120 Design (SLCC)
ART 1135 Printing Fundamentals (SLCC)
ART 1200 InDesign Software (SLCC)
AVTN 1010 Air Transportation (SUU)
AVTN 1040 Aviation Orientation (SUU)
AVTN 1420 Aircraft Systems (SUU)
AVTN 2050 Aviation Meteorology (SUU)
BA 1010 Business and Society (SUU)
BIOL 1010 Intro to Biology (SLCC, SUU)
BIOL 1020 Human Biology (SLCC, SUU)
BIOL 1610/1615 College Biology I/Lab (SLCC)
BTEC 1000 Biotechnology (available in person at BSTA) (SLCC)
BUS 1010 Intro to Business (SLCC)
CHEF 1110 Sanitation (SLCC)
CHEF 2520 Nutrition (SLCC)
CHEM 1010 Intro to Chemistry (SLCC, SUU)
CHEM 1210/1215 General Chemistry I/Lab (SLCC)
CJ 1010 Intro to Criminal Justice (SLCC, SUU)
CJ 1330 Criminal Law (SLCC)
CJ 1350 Intro to Forensic Science (SLCC)
COMM 1010 Intro to Communication (SLCC, SUU)
COMM 1020 Principles of Public Speaking (SLCC)
CSIS 1020 Computer Essentials (SLCC)
CYBR 2750 Foundations of Security (SUU)
ECON 1010 Economics as a Social Science (SLCC)
ECON 1740 US Economic History (SLCC, SUU)
ECON 2010 Principles of Microeconomics (SUU)
EDDT 1010 Intro to Engineering & Design (available in person at BSTA)(SLCC)
EDDT 1040 (available in person at BSTA) (SLCC)
EDDT 1500 Manual Machining (SLCC)
EDDT 1600 CNC Machining (SLCC)
EDUC 1010 Exploring Education in Society/Orientation to Education (SLCC, SUU)
ENGL 1010 Intro to Writing (SLCC,SUU)
ENGL 2010 Intermediate Writing (SLCC,SUU)
ENGL 2020 Intro to Creative Writing (SUU)
ENGR 1070 Robotics in the World (available in person at BSTA) (SLCC)
ETHS 2400 Intro to Ethnic Studies (SLCC)
FIN 2870 Personal Finance (SUU)
FLHD 1500/FHS 1500 Human Development Through the Lifespan (SLCC, SUU)

FLHD 2400/FHS 2400 Marriage and Family Relations (SLCC, SUU)
FLHD 2500 Child Development: Infancy through Twelve (SUU)
FLM 1045 Beginning Film Production (SLCC)
GEO 1090/1095 Earth Systems/Lab (SUU)
GEOG 1000 Earth's Environments (SLCC)
HIST 1700 American Civilization/American History (SLCC, SUU)
HLTH 1200 First Aid and Safety (SLCC)
HRHM 2000 Intro to Hospitality Management (SUU)
HS 1100 Medical Terminology (SLCC)
HU 1100 Intro to Humanities (SLCC, SUU)
MATH 1010 Intermediate Algebra (SLCC, SUU)
MATH 1030 Quantitative Analysis/Contemporary Mathematics (SLCC, SUU)
MATH 1040 Intro to Statistics/Statistical Inference (SLCC, SUU)
MATH 1050 College Algebra (SLCC, SUU)
MATH 1060 Trigonometry (SLCC)
MUSC 1010 Intro to Music (SUU)
MUSC 1020 Popular Music in America (SUU)
MATH 1210 Calculus I (SLCC)
MATH 1220 Calculus II (SLCC)
MKTG 1030 Intro to Marketing (SLCC)
NDT 1110 Intro to Nondestructive Testing (SLCC)
NFS 1020/NUTR 1020 Scientific Foundations of Human Nutrition (SLCC, SUU)
PHYS 1010 Elementary Physics (SLCC, SUU)
PHYS 1040 Elementary Astronomy (SLCC)
POLS 1100 American National Government (SLCC, SUU)
PSY 1010 General Psychology (SLCC, SUU)
SOC 1010 Intro to Sociology (SLCC, SUU)
THEA 1023 Intro to Film (SUU)