Course Catalog



Ellicott High School

Introduction

Deciding on the courses that you take in high school is a serious undertaking that will impact your entire future. This guide is meant to help you plan your education over the next four years as well as plan for your future career. In this book you will find a course description of every course as well as prerequisites and a recommended path of progression. It also outlines different college course options and reviews the requirements for graduation. This guide will serve as an important component of your Individual Career and Academic Plan (ICAP).

Disclaimer: All classes offered may or may not be offered depending on enrollment numbers and class size

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Credits for Graduation

Graduation from Ellicott High School requires 28 credits. Each full year class is worth 1 credit (0.5 per semester). The following is the list of the specific class requirements:

English	3 credits
Math	4 credits
Science	3 credits
Social Studies	3.5 credits
Physical Ed/Health	1 credit
Foreign Language	1 credit
Electives	credits
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	28 credits

For the class of 2020 and later, there are three different pathways for graduation below.

	Honors Pathway *Must have a minimum 3.5 GPA after 1st semester of senior year*	**CTE Pathway**	**High School Pathway**
Content Area	*Credits Required*		
Language Arts	4	4	3
Mathematics	4	4	4
Science	4	4	3
Social Studies	4	4	3.5
Physical Ed/Health	1	1	1
Foreign Language	2	1	1
Seminar	2	2	2
Fine Arts	1	-	-
Electives	4	4	6
Business/CTE	-	2	-
Community Service*	50 Hours	50 Hours	50 Hours
Total Credits	28 *4 credits must be Honors or AP Level*	28	28

All students will be required to take American or World History, as well as, Government to fulfill their social studies requirement. Seminar class will be taken over the 2 years (a ¼ credit per year). Career and Technical coursework can count for core course (math, science, social studies, and math) requirements.

*If you are planning to attend college or be in NCAA athletics, please review the credit requirements for the individual college you wish to attend to make sure you will meet the requirements.

GPA and Class Rank Policy

There are two types of courses - weighted and unweighted. Weighted courses are those that are college preparatory or college classes. Every course that is weighted will be labeled as such in the course catalog.

Class rank will be determined by average GPA compared to the students in the same grade.

Regular GPA	*Weighted GPA*
A=4.0	A=5.0
B=3.0	B=4
C=2.0	C=3
D=1.0	D=2
F=0.0	F=0

College Credit Options

Area Vocational Program (AVP)/Career Start/Concurrent Enrollment

Ellicott works with PPCC and many other programs to offer several concurrent enrollment programs (formerly known as AVP). The students are bussed into town to go to PPCC to take college courses in the morning and come back around noon to finish the rest of their high school coursework. This will earn them college level credit and the district pays for this. The following are the programs that are currently offered:

- Auto Collision Technology
- Automotive Service Technician
- Computer Aided Drafting
- Culinary Arts
- Cyber Security
- Diesel Power Technology
- Early Childhood Education
- Fire Science Technology
- Health Career Exploration
- Health Science Technology (CNA opportunity)
- Interior Design
- Multimedia Graphic Design
- Machining
- Radio and Television
- Zookeeping

There is an application process as well as requirements for entry into these programs. These courses are **NOT weighted.**

Advanced Placement (AP)/Pre-AP Courses

A CP/AP course is one in which the student is eligible to take the AP course exam at the end of the course in May. If students do well enough on this exam, they are eligible to receive college credit. If a student elects not to take the exam, colleges often still like to see that students are enrolled in these classes as they are accelerated and more college preparatory. These classes are **WEIGHTED**.

COURSES

Language Arts

1000 English 9: Introduction to Literature
Honors or regular
Grade: 9
credits: 1
Prerequisites: 8th Grade Language Arts

This course continues development of skills in reading, writing, speaking, and listening. Introduction to Literature and Composition explores the connection between classical, traditional, and contemporary texts, and how new ideas and concepts influence the understanding of literary, persuasive, and informational texts. Students will explore and understand literary devices and apply them to various forms of writing including informative/explanatory, narrative, opinion/argumentation, and research. They will continue to develop grammar, language usage, and mechanics skills while refining and revising within the writing process. Students will also collect, analyze, and evaluate information obtained from multiple sources to answer questions, propose solutions, and share findings and conclusions**.**

1001 English 10 World Literature
Honors or regular
Grade: 10
Credits: 1
Prerequisite: English 9

This course promotes development of more complex skills in reading, writing, speaking, and listening. The Advanced World Literature and Composition course explores on deeper levels the connection between historical literary influences and its impact on traditional and contemporary texts, and how new ideas and concepts influence the understanding of literary, persuasive, and informational texts. Students will analyze literary devices and apply them to various forms of writing including informative/explanatory, narrative, opinion/argumentation, and research. They will develop grammar, language usage, and mechanics skills while refining and revising within the writing process. Students will also collect, analyze, and evaluate information obtained from multiple sources to answer questions, propose solutions, and share findings and conclusions. This course aims to prepare students for post-secondary academic endeavors or workforce opportunities.

1002 English 11

Grade: 11
Credits:1
Prerequisite: English 10

This course promotes development of skills in reading, writing, speaking, and listening. Students will read, interpret, analyze, and evaluate various works of American Literature. Students will read from a variety of genres from various time periods from our textbook, The American Experience, non-fiction, short story, poetry, drama, and various novels. Class readings will represent authors from various cultures and perspectives of the American experience. Students will write for various purposes and audiences including creative, analytical, informative and persuasive writing. Students will work on

developing their oral communication skills through small group discussions and public speaking. A research component is also included within the course work.

English 12

Grade: 12
Credit: .5
Prerequisite: English 11

This course introduces students to close readings of fiction representing a variety of time periods and nationalities. From the ghosts and fantasies that haunted the nineteenth-century short story to the casual cruelties and everyday redemptions in twentieth-century stories to today's experimental fictions, the short story represents diverse visions of identity and experience. We will engage in class discussions, analysis and application of literary terms and thematic issues, consideration of cultural contexts, and examination of narrative construction. This course *also* provides students with extensive practice in composing and reading argumentative writing. Students will learn specific theories of persuasion and reasoning and apply this knowledge to their own compositions. They will read and evaluate the persuasive logic of both professional writers, as well as their peers. In addition, in this course students learn to write polished, professional communication, focusing content for specific audiences and contexts. Instruction stresses audience and situational analysis, clarity, professional tone and style, and elements of format and pattern, research, and revision techniques. This course addresses emerging issues in digital literacies such as the rhetoric of technology, technological competency, critical awareness of technology and human interactions, user-centered design, networking, online communities, ethics and technology, and culture and technology.

Mathematic Class Options by Year

9th Grade Math Recovery: Algebra 1 with Math Intervention

9th: Algebra 1 and Geometry

10th: Algebra 1, Geometry, and Algebra 2

11th: Geometry, Algebra 2, and Pre-Calc

12th: Algebra 2, Business Math, Pre-Calc, Calculus, Statistics

Mathematics

2001 Algebra I
Regular/Honors
Grade: 9,10
Credits: 1
Prerequisite: Math Solutions or successful completion of 8th grade math

This course encompasses the fundamental concepts of algebra and builds on the mathematics students learned previously. The content of Algebra 1 deepens and extends students' understanding of linear and exponential relationships. Students explore functions, including sequences and analyze them graphically, numerically, symbolically and verbally. Students apply linear models to data and analyze how well the model fits the data. Additionally, students engage in methods for analyzing, solving and applying quadratic functions.

2002 Geometry
Regular/honors
Grade: 9,10,11
Credits: 1
Prerequisite: Algebra 1

This course encompasses the fundamental concepts of geometry. This course is an integrated course primarily in plane (two-dimensional Euclidean Geometry) incorporated with solid (three-dimensional volume concepts), and coordinate geometry. Students will develop geometric concepts using both a formal deductive mathematical reasoning using proofs and an explorative inductive reasoning using transformations and constructions. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving toward formal algebraic arguments and solving process. In this course, rigid and non-rigid transformations are the frame through which students build and prove the concepts of congruence and similarity. Previous experiences with proportional reasoning and the Pythagorean Theorem lead students to understand the trigonometry of right triangles, and develop the Laws of Sines and Cosines to find unknown measures in general triangles. This course will include all Common Core plus topics for Geometry and will strengthen algebra skills while establishing a strong geometric background for future mathematics courses.

2003 Algebra II
Regular/honors
Grades: 10,11,12

Credits: 1
Prerequisite: Algebra I and Geometry or concurrent with Geometry

This course encompasses the fundamental concepts of algebra. It is designed to provide students with the opportunity to deepen understanding of all aspects of functions: graphing, analyzing, transforming, performing operations with, composing new functions, and solving equations using them. Functions studied include linear, quadratic, polynomials, radical, rational, and exponential. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the sets of complex numbers. Functions are studied in relation to one another by analysis of multiple representations of functions with unrestricted domains as well as those with restricted domains. Additionally, students further develop their statistical knowledge by studying the collection, analysis, and interpretation of data, and the connection to probability. This course will include all Common Core plus topics for Algebra II in the path of laying a foundation for future advanced and various mathematics courses.

2005 Pre-Calculus

Grade: 10 - 12
Credits: 1
Prerequisite: Algebra II

This course is designed to prepare students for Calculus class (or a college calculus class). This course combines Pre-Calculus topics such as various functions, logarithms and trigonometry with differential calculus topics including limits, continuity, related rates, and max/min applications.

2004 AP Statistics (Weighted)

Grades: 11-12
Credits: 1
Prerequisite: Algebra II

This statistics course is the equivalent to one in college level for motivated students who have completed at least Algebra II with a B or better grade. Topics include exploratory analysis of data, planning observational studies and experiments with collection of data, producing statistical models using probability distributions, and statistical inference.

2006 Financial Math

Grades:12
Credits: 1
Teacher Recommendation only

Business Mathematics is a two-semester course of which students learn to use mathematics effectively as a tool in their personal and business lives. After students have completed this course, they will be able to apply mathematical concepts in various personal and business situations. Students will review and apply mathematical operations with whole numbers, decimals, fractions, ratios, and percent. They will understand terminology relating to personal and business mathematics applications and apply basic math skills to the solution of both personal and business applications. They will use common mathematical formulas to solve a variety of personal and business mathematics as well as apply

knowledge of computer and calculator use. **This course may be used to meet the mathematics requirements for graduation.**

AP Calculus AB (Weighted)
Grade: 11-12
Prerequisite: Pre Calculus

Following the College Board's suggested curriculum designed to parallel college-level calculus courses, AP Calculus AB provides students with an understanding of the concepts of calculus and experience with its methods and applications. These courses introduce calculus and include the following topics: functions, graphs, limits, and continuity; differential calculus (including definition, application, and computation of the derivative; derivative at a point; derivative as a function; and second derivatives); and integral calculus (including definite integrals and antidifferentiation).

Math Intervention

Grade:9
Credits: 1 (general elective credit-this course does NOT as a math credit)
Prerequisite: Teacher recommendation

Designed to identify gaps in understanding and build their foundational skills. Meant to go along with the Algebra I course, this class reinforces students' sense of numbers. Students will focus on integers and how they work with fractions, decimals and percents as well as develop a sense of proportional reasoning.

Science Course Options by Year

9th: Physical Science

10th: Biology

11th: Earth Science

12th: AP Physics*, Honors Chemistry*, Anatomy/Physiology

***Subject to prerequisite**

Science

3000 Physical Science/Honors Physical Science (Weighted)

Grade: 9
Credits: 1
Prerequisite: None

The Physical Science curriculum is designed to continue the investigation of the physical sciences begun in earlier grades. The Physical Science course will build a rich knowledge base to provide a foundation for the continued study of science. The investigations should be approached in a qualitative and quantitative manner in keeping with the developing mathematical skills of the students. The curriculum will integrate the following topics from both chemistry and physics: the structure of atoms, structure and properties of matter, motions and forces, and conservation of energy, matter, and charge.

3001 Biology/Honors Biology (Weighted)

Grade: 10
Credits: 1
Prerequisite: None

This required course emphasizes three biological concepts: 1) Molecules and Cells, 2) Heredity and evolution, and 3) Organisms and Populations. Laboratory investigations, selected group projects and dissection are required

3007 Earth Science/Honors Earth Science (Weighted)

Grades: 11
Credits: 1
Prerequisite: Completion of Biology and Physical Science

This course is laboratory-based science class emphasizing the function of the earth's system. Emphasis is placed on the human interactions with the Earth's geologic and environmental systems, predictability of a dynamic Earth, origin and evolution of the Earth system and universe, geochemical cycles and energy in the Earth system. This course also acquaints students with astronomy concepts including basic facts about the Earth, moon, and stars.

3008 AP Physics (Weighted)

Grades: 12
Credits: 1
Prerequisite: Algebra II or concurrent

This is a rigorous, math-based course that is the equivalent of 1 semester of college physics. Students will study the laws and concepts that govern the physical behavior of matter. This course will stress a lab based problem solving approach.
Good mathematical skills and laboratory techniques are required, along with a basic understanding of physical phenomena. The course will focus on linear and rotational mechanics, as well as simple harmonic motion..

Anatomy and Physiology
Grade: 12
Credits: 1
Prerequisite: Completion of Physical Science, Biology, Earth Science

Anatomy and Physiology courses present the human body and biological systems in more detail. In order to understand the structure of the human body and its functions, students learn anatomical terminology, study cells and tissues, explore functional systems (skeletal, muscular, circulatory, respiratory, digestive, reproductive, nervous, and so on), and may dissect mammals.

Introduction to Engineering
Grade: 9-12
Credits: 1 (general elective credit-this course does NOT as a science credit)
Prerequisites: none

This is an introductory course into the concepts of engineering. Students will learn facts about the engineering design process, engineering as a career, as well as participate in various engineering based projects and competitions.

Social Studies

4000 World Geography
Grade: 9
Credit: 1

This course is designed to give more knowledge of the world by identifying the five themes of geography (place, location, human-environment interaction, movement, and regions) within different regions. The study of our world's past as part of the general study of humanity will reveal historical, political, economic, social, and cultural relationships among the people of the world. An understanding of how past events relate to current events in an interdependent world will be stressed.

4001 Honors World Geography (weighted)
Grade: 9-11
Credit: 1
Prerequisite: Teacher recommendation

Honors World Geography is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to analyze human social organization and its environmental consequences. Students also learn about the methods and tools geographers use in their science and practice. Honors World Geography students will learn to think geographically and ask critical geographic questions.

4002 World History
Grade: 10
Credit: 1

Students will explore concepts, events, and personalities in world history from the foundations of human civilizations through World War II. The various events and personalities students explore will serve as examples for understanding the various important historical concepts in the course. Concurrently, students will develop skills critical to historical sources and historical study.

AP World History (Weighted)
Grade: 10
Credit: 1

AP Modern World History is a rigorous college-level course structured towards periods 1200 CE to the present. Students will examine primary sources, such as documentary material, pictorial and graphic materials, maps, political cartoons, statistical tables, and works of art, exposure to both factual narrative and to the interpretations of World History from the perspectives of a variety of different writers and historians and will be examining how people have thought about and written about historical events over the course of time. Students will be provided with the opportunity to develop analytical and interpretive writing skills, practicing short answer questions, document-based and long essay question essays, and writing at least one essay in every unit. Students may elect to take the Advanced Placement Examination in May and possibly receive college credit based on exam results.

4003 Sociology
Grade: 11-12 (This is an elective course)
Credit: .5

This course will focus on the study of how social life influences human behavior and how we interact with each other. This course will analyze a wide variety of subject matters from social norms and values, societal bias, racism, crime and deviance (going against social rules both big and small), religious traditions, gender and class divisions, and shared beliefs among cultures. The class will be discussion based where students will further develop their skills in reading, writing, critical thinking, and speaking.

4004 Psychology
Grade 11-12 (This is an elective course)
Credit: .5

In this course we will look at mental and emotional processes based on the 8 perspectives of psychology; areas of emphasis will include methods of research, biological basis of behavior, learning, development, intelligence, and measurement, and psychological disorders. The aim of this course will attempt to help with the interpretation and understanding of how and why individuals behave in the manners they do.

4007 U.S. History
Grade: 11
Credit: 1

U.S. History is a course of major developments from the post-reconstruction of our nation to the present. Emphasis will be placed on the cause and effects of historical, political, economic, social, and cultural relationships among the people of our nation and the world.

AP U.S. History (Weighted)
Grade: 11
Credit: 1

AP U.S. History is a college-level course that examines the political, diplomatic, economic, social, cultural and intellectual history of the United States from 1492 to the present. The course will provide students with analytical and critical thinking skills through the use of primary and secondary sources to incorporate into the various writing requirements. Students may elect to take the AP exam in May and possibly receive college credit based on exam results.

4005 AP Government & Politics (Weighted)
Grade: 12
Credit: 1
GRADUATION REQUIREMENT (taken senior year)

Students will examine the roles and functions of government over the course of the year. "AP Gov" journeys the constitution from its origins in American history, through the specific language and implementation of each article, culminating in the interpretation of the constitution and changes over time. Students then study perspectives of politics and their impact on themselves and society at large. Students may elect to take the Advanced Placement Examination in May and possibly receive college credit based on exam results.

- The Honors course is designed to provide enrichment for college-bound students. Emphasis is placed on advanced levels of interpretation and evaluation of historical material.

Foreign Language

5005 Spanish I

Grades: 9-12
Credit: 1
Prerequisite: None

Spanish 1 will provide the student with a general introduction to the Spanish language: sound system, pronunciation, functional vocabulary related to everyday life, cultural information and basic grammatical structures. Emphasis will be on the acquisition of four skills: listening, speaking, reading and limited writing. There are two main objectives to the course. Foremost is to give the students the ability to carry on a simple conversation. The second is to provide the students with instruction that teaches a basic understanding of Spanish culture, vocabulary, and grammatical concepts.

5006 Spanish II

Grades: 9-12
Credit: 1
Prerequisite: Spanish 1 or teacher approval

Spanish 2 builds upon knowledge gained in Spanish 1.This course will also reinforce the skills learned in Spanish I: listening, speaking, reading and writing. Emphasis is on perfecting pronunciation, mastery of the basic grammatical structures, and increased communicative proficiency. Acquisition of functional vocabulary is expected. Students will be exposed to the past tenses, future, conditional and subjunctive mood. Students will be expected to apply them in their writing and speaking.

5007 Spanish III-IV

Grades: 9-12
Credit: 1
Prerequisite: Spanish 1 & 2 or instructor approval.

This course builds upon knowledge gained in Spanish 1 & 2. The course is a continuation and recycling of knowledge acquired in Spanish 1 and Spanish 2, as well as an introduction to new vocabulary, structures and expressions. Students will be expected to expand their vocabulary range to include more sophisticated terms, use advanced language expressions, verb tenses and grammatical concepts such as the pluperfect and the subjunctive mood. Students will view Spanish language films and read selected Spanish literature. *This* course also prepares students to communicate authentically in Spanish by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts, and ideas on a variety of topics, including connections to other subject areas.

Physical Education and Health

5001 Lifetime Fitness

Grades: 9-12
Credits: 1
Prerequisites: None

Lifetime Fitness is designed to provide students the opportunity to enhance their knowledge of physical fitness concepts and principles through a developmentally appropriate physical education elective program aligned with the Physical Education Content Standards for Colorado. The emphasis is on skill development for lifelong activities such as, badminton, pickleball, horseshoes, archery, golf, disc golf, and others. By developing knowledge for these activities, students will have the skills to continue leading a healthy lifestyle for the rest of their lives.

5002 Team Sports

Grades: 9-12
Credits: 1
Prerequisites: none

The team Sports course will provide a background in a broad base of activities (Volleyball, softball, soccer, football, basketball, lacrosse, physical fitness, team handball, and others)> Students will be introduced to a variety of activities appropriate for large team involvement. This course will allow the students to improve their basic skills and be introduced to advanced skills in team sports, while providing them with the knowledge of rules and strategies related to the activities. Each student is required to dress out for daily participation. Proper gym clothes are required.

5003 Athletic Weight Training

Grades: 9-12
Credits: 1
Prerequisites: None

This course provides students the opportunity to enhance their learning of personal fitness concepts and principles through a developmentally appropriate physical education elective program aligned with the Physical Education Content Standards for Colorado. The emphasis is on explosive power, athletic movements, and safety. Core lifts will include parallel squat, hang clean, hex bar deadlift, and bench press. Auxiliary lifts will include a variety of lifts to ensure a balanced approach to strengthening and to enhance speed, power, and strength. Weight Room safety, proper technique, individual goal setting, and accurate record keeping are all important components in this course. In addition, students will demonstrate improved performance throughout the semester.

5004 Health and Character Education

Grades: 9-12
Credits: 1
Prerequisites: None

This course is designed to assist students in obtaining accurate information, developing lifelong positive attitudes and behaviors, and making wise decisions related to their personal health. Study will include personal and community health; mental, emotional, and social health; injury prevention and safety, nutrition and physical activity, alcohol, tobacco, and other drugs; growth, development, and sexual health. Central themes are the acceptance of personal responsibility for lifelong health, respect for and promotion of the health of others, an understanding of the process of growth and development, and informed use of health-related information, products, and services.

Electives

The electives section is structured according to what type of elective is offered. For the 2024-2025 school year we have three basic sections for electives: fine arts, language arts, and vocational.

6000 Studio I

Grades: 9-12
Credits: 1
Prerequisites: None

Studio Art I (beginning art) introduces students to the Elements of Art and Principles of Design while developing drawing skills and painting techniques. Art studio experiences in the classroom will give students opportunities to experience a variety of media (pencil, pen, ink, charcoal, pastel, watercolor, and tempera paint) while developing student's individual style and creative problem solving skills. Students will demonstrate their ability to respond, to analyze and to interpret their own artwork and the work of others through discussions, critiques, and writings.
Materials Fee: $20 per student (for the entire year)

6001 Three Dimensional (3D) Art

Grades: 10-12
Credits: 1
Prerequisites: Studio I

3-D Art students are expected to become independent thinkers and to apply their knowledge of the elements and principles to their work in a variety of media (clay, wire, paper mache, found objects, etc) in order to demonstrate mastery of three-dimensional design skills and concepts.
Materials Fee: $40 per student (for the entire year)

6002 Ceramics

Grades: 11-12 only
Credits: 1
Prerequisites: Studio I and 3-D Art (12th grade students do not need prerequisites)

Ceramics class is a year-long exploration of working with clay. Students will learn handbuilding techniques and understand the history of ceramics through detailed examples. Students will also learn to throw on a pottery wheel.
Materials Fee: $50 per student (for the entire year)

7001 Concert Choir

Grades: 9-12
Credits: 1
Prerequisites: None

Students learn the fundamentals of vocal performance. During the year the students will be exposed to a wide variety of music and styles of singing while learning to read vocal music scores and vocal technique in a choir setting. Students will have a chance to sing with other schools in the annual Black Forest League Concert as well as participate in honors choirs at different Colorado Colleges.

7000 Concert Band

Grades: 9-12
Credits: 1
Prerequisites: Experience preferred but not required with teacher approval

Students play a woodwind, brass, or percussion instrument within a large ensemble. During the year the students will play Pep Band music at football games, have opportunities to audition and travel to honor band events, and perform at CHSAA Solo and Ensemble. Students will have a chance to sing with other schools in the annual Black Forest League Concert. Students are encouraged to have 1-2 years minimum experience.

1006 Yearbook/Marketing

Grades: 10-12
Credits: 1
Prerequisites: none (application process for certain roles within class)

Yearbook is a production-based elective course that creates the Ellicott High School yearbook. Because the staff is solely responsible for the content, design, layout, and sale of the book, students who choose to be a part of this business must ensure that it runs efficiently and effectively. Staffers must be cooperative, punctual, professional, creative, and productive. Students are responsible for taking digital photos, conducting interviews, managing clerical operations, making announcements, maintaining signage, and composing, designing, and editing all elements of text, graphic art, and digital photography layouts. This course requires students to be sometimes available outside of regular class hours to attend sporting events, student activities, etc. Students are expected to be organized, motivated, and possess strong reading and writing skills upon entering the class.

1010 PALS and Peer Mediation (Peers Making Peace)

Grades: 11-12
Credit: 1
Prerequisite: Application process

The PAL® course taps into the potential of youth to make a difference in their lives, schools and communities. It nurtures and builds capacities to help youth increase resiliency and build protective factors to help them achieve in school and social situations, which lead to a productive life. Students will create environments where they will participate in productive pursuits with other peers, using positive decision making, higher order thinking skills, and resiliency building skills. Positive peer influence is

utilized as a central strategy for addressing issues like bullying, low achievement, at-risk youth, drop-out prevention, substance abuse prevention, teen pregnancy, suicide, absenteeism, behavior problems, and other community issues. In addition, the students will receive additional training as peer mediators. This training equips and empowers students to resolve conflicts on campus in the areas of bullying, peer conflict, and violence prevention. Through service learning projects, these classes provide conflict resolution services to middle and elementary schools. This course is open to juniors and seniors.

Career and Technical Education Electives

8005 Computer-Aided Drafting (CAD)*

Grades: 9-12
Credits: 1
Prerequisites: none

Explores careers within construction trades and architectural design. Students apply technical skills to create working drawings and computer simulations for a variety of applications. Class instructions include specification interpretation, dimensioning techniques, drafting calculations, material estimation, technical communications, computer applications and interpersonal communications. Instruction also includes computer assisted design and drafting to create two dimensional and three-dimensional engineering designs using Revit Basic.

8004 Construction Trades I & II*

Grades: 10-12
Credits: 1
Prerequisite: Geometry recommended

This course covers basic carpentry terminology and develops technical aspects of carpentry with emphasis on development of introductory skills. This course introduces students to basic skills and knowledge related to residential carpentry. Topics include blueprint reading, estimating, wood, metal and concrete building materials; fasteners; hand and power tools; fabrication based on construction plans; framing of platform and post and beam construction. English language arts and mathematics are reinforced. This course gives students an introduction to the skill and knowledge base typically required for apprentice carpenters. Community service and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences.

8000 Introduction to Business *

Grades: 9-12
Credits: 1
Prerequisite: None

This course will introduce students to what a business is, how it operates, and how it is managed. Students will identify forms of ownership and the processes used in production and marketing, finance, personnel and management in business operations. Learn the fundamentals of business. Discover how your favorite business is run from start to finish. Build your understanding through integrating

vocabulary terms and in classroom debates. Start your own business and find out if you have what it takes to survive in a global industry.

70001 Computer Science

Grades: 9-12
Credits: 1 Per Years
Prerequisites: none

The Computer Science course will study computers and computational systems. It is a broad field which includes everything from the algorithms that make up software, to how software interacts with hardware, to how well software is developed and designed. The course will cover binary/ASCII representation for information and students will be introduced to the basics of coding with micro:bit processing modules.

8003 Welding Technology*

Grades: 9-12
Credits: 1 per year
Prerequisites: None

This program will allow students to participate in Welding Technology for up to eight semesters. The student will be trained in the areas of OAW, SMAW, GMAW, and GTAW. Upon completion of the basic classes the student will be trained in OAC, PAC, Blueprint Reading, and Math for Welders. Also, with the articulation agreement students will be given the opportunity to transition to the post-secondary level upon graduation. **Required items: Welding Gloves, Denim Pants, Long Sleeved Shirt, Paper, Pen, Combination Padlock, Leather Boots**

Statement of Non-Discrimination

The Board is committed to providing a safe learning and work environment where all members of the school community are treated with dignity and respect. The schools in the district are subject to all federal and state laws and constitutional provisions prohibiting discrimination on the basis of disability, race, creed, color, sex, sexual orientation, marital status, national origin, religion, ancestry or need for special education services. Accordingly, no otherwise qualified student, employee, applicant for employment, or member of the public may be excluded from participation in, be denied the benefits of, or be subjected to unlawful discrimination under any district program or activity on the basis of disability, race, creed, color, sex, sexual orientation, marital status, national origin, ancestry, creed, religion, sex (which includes marital status), sexual orientation (which includes transgender), disability ancestry, or need for special education services. Discrimination against employees and applicants for employment based on age, genetic information, and conditions related to pregnancy or childbirth is also prohibited in accordance with state and/or federal law. Any harassment/discrimination of students and/or staff, based on the aforementioned protected areas, will not be tolerated and must be brought to the immediate attention of the ESD22 administration and/or nondiscrimination compliance/grievance coordinator.

NONDISCRIMINATION COMPLIANCE COORDINATOR:
Christina Vetromile, Business Manager
322 S. Ellicott Hwy., Ellicott, CO. 80808
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