

Cunningham High School

**Course
Catalog**



TABLE OF CONTENTS

	Page
Cunningham Graduation Requirements	3
Kansas Qualified Admissions and Scholars Curriculum	4
Business & Computer Technology	5-6
Fine Arts	7
Foreign Language	8
Health and Physical Education	9
Family and Consumer Science	10-12
Trade and Industry	13-14
English Language Arts	15-17
Mathematics	18-19
Science	20-21
Social Science	22-23
Miscellaneous	24
Career Exploration	24-25

Graduation Requirements

Twenty-four credits are required to graduate from Cunningham High School.

4 units	English Language Arts
½ unit	Speech
1 unit	American History
½ unit	American Government
1 and ½ units	Social Studies Elective
1 unit	Computer Elective
½ unit	Personal Finance
3 units	Science (Biology Required)
3 units	Mathematics
1 unit	Health and Physical Education
1 unit	Fine Arts
<u>7 units</u>	Electives
24 units	Total

In order to be accepted into a community college or technical program after graduation, a student needs a high school diploma and any additional requirements for that program, such as an entrance exam.

Kansas Qualified Admissions

In order to be accepted directly after high school graduation into a four-year university in Kansas, there are several paths.

- Score a 21 on the ACT test and have a GPA of 3.25
Or
- Graduate in the top 1/3 of your graduating class
Or
- Complete the Kansas Regents Curriculum with at least a 2.0 GPA

Kansas Regents Curriculum

4 approved units of English, ½ unit may be Speech
3 approved units of Natural Science, one unit must be Chemistry or Physics
4 approved units of Math: Algebra I, Algebra II, Geometry, and one Advanced Math
3 approved units of Social Studies including: U.S. History, U.S. Government, Geography
3 approved units of Electives

Kansas Scholars Curriculum Requirements

“The Kansas State Scholarship is designed to assist financially needy students in the top 20-40% of Kansas high school graduates who are designated as state scholars during the senior year of high school. Completion of the Kansas Scholars Curriculum is one component of the scholarship requirements.”

– Kansas Board of Regents

Kansas Scholars Curriculum Requirements

4 Years of English
4 Years of Math, including Algebra I, Algebra II, Geometry, and one unit of advanced math
3 Years of Science – One year each in Biology, Chemistry, and Physics
3 Years of Social Studies – One unit each in U.S. History, U.S. Government, World History, World Geography, or Economics
2 Years of Foreign Language, in the same language

BUSINESS & COMPUTER TECHNOLOGY

Course Title: **Computer Applications**

Prerequisite: None

Level: 8th grade (required), if not taken in 8th, required in high school Credit: 1

In Computer Applications, this course teaches students an introduction to Microsoft Word, Excel, Access, Publisher, and PowerPoint. Students learn how to use the internet, work the network, and ethics in computer. Students learn about computer hardware as well as correct keyboarding techniques.

Course Title: **Microcomputer Office Applications I**

Prerequisite: Computer Applications

Level of students: 10-12

Credit: 1

This course is offered as a dual credit course through PCC, earning 3 hours of college credit. This course is an introduction to computing course that provides a college level overview of hardware, operating systems, Internet, word processing, spreadsheet, database, presentation, integration of software, ethical issues and concepts. Upon completion of this course, students should demonstrate a knowledge of basic concepts and terminology related to software and demonstrate basic and advanced skills when using the listed applications.

Course Title: **Personal Finance**

Prerequisite: Accounting I

Level of students: 12 (required)

Credit: ½

This one-semester course is based on Dave Ramsey's Personal Finance Competencies and presents essential knowledge and skills to make informed decisions about real world financial issues. Students will learn how choices influence occupational options and future earning potential. Students will also learn to apply decision making skills to evaluate career choices and set personal goals. The course content is designed to help the learner make wise spending, saving, and credit decisions and to make effective use of income to achieve personal financial success.

Course Title: **Web Page Design**

Prerequisite: Computer Applications

Level of students: 10 – 12

Credit: 1

This course is offered as a dual credit course through PCC, earning 3 hours of college credit. This course will cover skills necessary to create, design, and publish a web page. Students will prepare step-by-step activities to learn web design and will create projects to reinforce their learning to master the skills. Case studies that require critical thinking will be used to reinforce concepts and skills.

Course Title: **Web and Digital Communications Project Management**

Prerequisite: Computer Applications

Level of students: 9 – 12

Credit: 1

The Web and Digital Communications Project Management course provides students with the information and skills necessary for success in managing projects and operating logistical ventures in technology, business, and industry. This course covers scheduling of timelines and deadlines. The course includes designing a yearbook, taking photos, problem-solving, decision-making, and building leadership skills.

Course Title: **Interactive Media**

Prerequisite: Computer Applications

Level of students: 9 – 12

Credit: 1

Interactive Media courses provide students with the knowledge and skills to create, design, and produce interactive media products and services. The courses may emphasize the development of digitally generated and/or computer-enhanced media. Course topics may include 3D animation, graphic media, web development, and virtual reality. Upon completion of these courses, students may be prepared for industry certification.

Course Title: **Particular Topics in Media Technology**

Prerequisite: Computer Applications

Level of students: 9 – 12

Credit: 1

Coursework should represent explicit objectives measured against specific target employment skills that are not available in other courses and should be enumerated in addition to those listed below. Possible topics (you will have others): Programming Media Behaviors Managing cross layer imaging & color separation Sound Integration & Sequencing.

Course Title: **Business Essentials**

Prerequisite: None

Level of students: 8

Credit: 0.5

This is a core course designed to give students an overview of the business, marketing and finance career cluster occupations. Students will develop an understanding of how academic skills in mathematics, economics, and written and oral communications are integral components of success in these occupations. Students will examine current events to determine their impact on business and industry and legal and ethical behavior, acquire knowledge of safe and secure environmental controls to enhance productivity, determine how resources should be managed to achieve company goals, and identify employability and personal skills needed to obtain a career and be successful in the workplace. As students learn about different types of business ownership, they will interpret industry laws and regulations to ensure compliance, identify principles of business management, and analyze business practices to determine ethics and social responsibilities.

Course Title: **Principles of Marketing**

Prerequisite: None

Level of students: 10-12

Credit: 1

Principles of Marketing courses offer students insight into the processes affecting the flow of goods and services from the producer to the consumer. Course content ranges considerably as general marketing

principles such as purchasing, distribution, and sales are covered; however, a major emphasis is often placed on kinds of markets; market identification; product planning, packaging, and pricing; and business management.

Course Title: **Accounting**

Prerequisite: None

Level of students: 10-12

Credit: 1

Accounting courses introduce and expand upon the fundamental accounting principles and procedures used in businesses. Course content typically includes the full accounting cycle, payroll, taxes, debts, depreciation, ledger and journal techniques, and periodic adjustments. Students may learn how to apply standard auditing principles and to prepare budgets and final reports. Calculators, electronic spreadsheets, or other automated tools are usually used. Advanced topics may include elementary principles of partnership and corporate accounting and the managerial uses of control systems and the accounting process.

Course Title: **Business Economics**

Prerequisite: None

Level of students: 9-12

Credit: 1

Business Economics courses integrate economic principles (such as free market economy, consumerism, and the role of American government within the economic system) with entrepreneurship/business concepts (such as marketing principles, business law, and risk).

The following additional courses are offered online through FuelEd:

Accounting

General Accounting I

General Accounting II

Introduction to Entrepreneurship I

Introduction to Entrepreneurship II

Marketing I

Marketing II

FINE ARTS

Course Title: **Concert Band**

Prerequisite: None

Level of students: 9-12

Credit: 1

This course is oriented toward the performance of a variety of repertoire from different styles and periods of music. Each band member will work to demonstrate musicianship skills – reading notes, reading rhythms, and understanding musical terms. Students will work together to achieve performance goals while demonstrating and identifying the historical styles and periods of music the selections reflect, the way that music theory is utilized in the selection and using proper performance techniques – carriage, hand placement, posture etc. The Concert Band performs at three Concerts, League-Regional-State-Tri-State Festivals, the Kansas State Fair, the Christmas Parade, and athletic events. Members should expect to supply their own formal stage apparel. Members may enhance their learning experience by preparing solos and by being members of ensembles for Festivals.

Course Title: **Concert Choir**

Prerequisite: None

Level of students: 9-12

Credit: ½ for entire year

This course is oriented toward the performance of a variety of repertoire from different styles and periods of music. Each choir member will work to demonstrate musicianship skills – reading notes, reading rhythms, and understanding musical terms. Students will work together to achieve performance goals while demonstrating and identifying the historical styles and periods of music the selections reflect, the way that music theory is utilized in the selection and using proper performance techniques – balance, blend, facial expression, posture etc. The Mixed Chorus performs at three Concerts, League-Regional-State-Tri-State Festivals, and Graduation Exercises. Members should expect to supply their own formal stage apparel. Members may enhance their learning experience by preparing solos and by being members of ensembles for Festivals.

Course Title: **Main Street Singers**

Prerequisite: Member of Concert Choir, Audition

Level of students: 9-12

Credit: 0

Main Street Singers is Cunningham’s select Show Choir / Madrigal Ensemble that is limited to 24 members. Music for the group will be selected from standard Show Choir literature from Broadway tunes, Madrigals, Ballads, Spirituals to current “pop” tunes. Emphasis will be placed on choreography and how to sell a song to an audience through correct musical expression by perfecting harmonic and melodic lines, rhythm, style, tempo and texture. Main Street Singers must meet and maintain the high expectations and integrity of the group through attitude, performance, pride and public appearances. Main Street Singers perform at three Concerts, League-Regional-State-Tri-State Festivals, and community and organizations events. Members should expect to purchase their own performing apparel.

Course Title: **Forensics I**

Prerequisite: None

Level of students: 9-12

Credit: 1

The forensics course covers many areas including improvisation, prose, poetry, monologue, duet comedy acting and duet serious acting. The second semester focuses on memorized scene work, culminating in a one act performance.

The following additional courses are offered online through FuelEd:

Fine Art

Music Appreciation

FOREIGN LANGUAGE

Course Title: **Spanish I**

Prerequisite: None

Level of students: 9-12

Credit: 1

This is a beginning course emphasizing four areas of learning Spanish -- listening, speaking, reading, and writing. The student will learn: correct pronunciation and accent of Spanish, a working vocabulary, grammatical principles and appreciation of Spanish cultural backgrounds.

Course Title: **Spanish II**

Prerequisite: Spanish I

Level of students: 10-12

Credit: 1

This course is a continuation of Spanish I. Students will review skills in pronunciation and accent, basic vocabulary, and grammatical structure. New vocabulary and grammatical structures will be emphasized. Pair and group work is emphasized.

Course Title: **Spanish III**

Prerequisite: Spanish II

Level of students: 11-12

Credit: 1

A continuation of Spanish II, this course allows for increased development of skills. The student has some choice of reading and speaking materials. There is limited reading in Spanish stories, starting with

fables up to short stories, which will also include literary discussions. The cultural background of Spanish-speaking countries in America and the country of Spain are studied in relation to the Spanish language. Lessons are in units using a variety of textbooks, with special emphasis on Spanish art and artists, as well as the Inca, Aztec, and Maya cultures.

Course Title: **Spanish IV**

Prerequisite: Spanish III

Level of students: 12

Credit: 1

This course gives more experience in development of skills as in Spanish III. There will be an intensive study of more advanced grammar. Spanish literature is appreciated in selected classical stories. Students enjoy a study in depth in an imaginary trip through Spain, dealing with cultural background and travel expressions, history and geography. Students completing four years of Spanish are usually able to test out of two years in college, and in some colleges, to receive college credit for high school work. A review and continued use of literary terms and elements will be used as well.

The following courses are offered online through FuelEd:

Chinese I (Competency) (MIL)

Chinese I (Fluency) (MIL)

Chinese II (Competency) (MIL)

Chinese II (Fluency) (MIL)

French I (Competency) (MIL)

French I (Fluency) (MIL)

French II (Competency) (MIL)

French II (Fluency) (MIL)

French III (Competency) (MIL)

German I (Competency) (MIL)

German II (Competency) (MIL)

Latin I (Competency)

Latin II (Competency)

HEALTH AND PHYSICAL EDUCATION

Course Title: **Physical Education**

Prerequisite: None

Level of students: 10 (required)

Credit: 1

Physical Education will give each student the opportunity to develop a knowledge of life time activities, sports, physical fitness, and health. The class schedule is comprised of two weeks of P.E. followed by a chapter of health. P.E. units vary by class size and schedule.

P.E. Units: Volleyball, Spikeball, Soccer, Badminton, Pickleball, Tennis, Archery, Weight lifting, Basketball, Softball, and Various Social Games- Dodgeball, Gaga ball, 9 Square

Health Chapters: Personal Wellness, Developing a Healthy Personality, Healthy Emotions, Managing Stress, Healthy Relationships, Family and Community Health, Nutrition, Dietary Needs, Lifelong Activity, Tobacco, Alcohol, Psychoactive Drugs

Course Title: **Weight Training**

Prerequisite: none

Level of students: 9 – 12

Credit: ½

This is a full-body program, designed to exercise all muscles and to develop both strength and muscular endurance. Each student will have the opportunity to use free weights, med balls, plyo balls, jump rope, agility ladder, stationary bike, and resistance bands to enhance their growth and development of the major muscle groups and maintain muscle balance. Proper lifting techniques and safety elements shall be followed.

Major topics covered: Major muscle groups, Lifting techniques, Safety Awareness, Free Weights, 1) Bench Press 2) Military Press 3) Bent-Knee Sit-up 4) Lat Pull-Down 5) Bicep Curl 6) Toe Raises 7) Cleans 8) Full Squats 9) Leg Extension 10) Leg Curl.

The following additional course is offered online through FuelEd:
Skills for Health

FAMILY AND CONSUMER SCIENCE

Course Title: **Meal Management I**

Prerequisite: None

Level of students: 9 - 12

Credit: ½ per semester

The Meal Management course includes units on basic food preparation techniques and simple meal planning. Students will acquire a knowledge of My Plate and will be able to choose the more nutritious foods for their preparation. The class includes many laboratory experiences.

Major chapters or units: Planning your daily food, reading a recipe, basic equipment, cooking terminology, organizational skills, measuring techniques, baking principles, quick breads, cookies, and cakes.

Course Title: **Textiles I**

Prerequisite: None

Level of students: 9 - 12

Credit: ½ per semester

The Textiles course is designed for the beginning seamstress. Students will learn the basics of fabric care, machine operation and basic construction techniques necessary for the completion of a project. Students work at an individual pace. The students choose their projects according to their individual level of skill.

Major chapters or units: Seams and seam finishes, pattern layouts, reading the instruction sheet, reading the pattern envelope, and pressing techniques.

Course Title: **Meal Management II**

Prerequisite: None

Level of students: 10-12

Credit: ½ per semester

Meal Management II is a more in depth look at food preparation techniques and more detailed meal preparations. Concentration areas are yeast breads, pies, and meats other than beef. Students will use the My Plate Guidelines and the basic meal planning principles in order to plan nutritious and attractive meals. A nutrition unit is included in this class. Students will be able to define nutrients and identify the 6 classes of nutrients and the role each nutrient plays in our diet and well-being.

Course Title: **Textiles II**

Prerequisite: None

Level of students: 10-12

Credit: ½ per semester

Students who enroll in this class should have some background in construction. The course covers topics such as wardrobe planning, figure analysis, textiles, serger techniques and an update on new, time saving construction techniques. The students will choose and construct a project of their choice based on a

challenge system. This means that students must choose a project that presents at least two new challenges such as different types of fabric, buttonholes, zippers, etc

Course Title: **Parenting**

Prerequisite: None

Level of students: 9-12

Credit: ½ per semester

Parenting provides guidelines for good parenting. It takes students on a journey that begins with understanding parenting and includes information about becoming a parent; caring for, nurturing, and guiding children; and handling common parenting concerns.

Course Title: **Housing Decisions**

Prerequisite: None

Level of students: 9 – 12

Credit: ½ per semester

Housing Decisions is a one semester course which prepares you to make wise choices concerning your housing. It helps you understand your housing needs, and it shows you how to meet those needs. The basic principles of design such as color, balance and rhythm are used throughout the course. With this background, students design interiors for all types of "customers" and all types of rooms. The students will have numerous hands-on projects as well as some local field trips.

Course Title: **Nutrition and Wellness**

Prerequisite: None

Level of students: 10 – 12

Credit: ½ per semester

Nutrition and Wellness is designed for all students, athletic or non-athletic, concerned with weight control, diet, calories, exercise, body fat, bone structure, muscle tone, and diseases related to health. The course combines health, wellness and nutrition as a lifestyle. The course includes field trips to the grocery store for scavenger hunts on advertising, evaluating types of fat, amounts of fiber in foods, reading labels and identifying foods with high sodium and sugar. A fitness profile will be used in self-evaluation for each student as well as a 12 minute aerobic test.

Course Title: **International Cuisine**

Prerequisite: Meal Management preferred

Level of students: 11 – 12

Credit: ½ per semester

Students "travel" throughout the world by studying the culture, people, geography and climates of different countries. This study helps the students understand the food choices of the particular country. After locating and briefly studying the country, students plan and prepare foods typical to the area. The

class travels through at least 6 countries during the semester. Students will choose at least three of the countries to be studied. Basic cooking experience such as being able to read recipes, measure correctly and understand cooking terminology is helpful.

Course Title: **Balancing Work and Family**

Prerequisite: None

Level of students: 10 – 12

Credit: ½ per semester

Balancing Work and Family is a life skills course that is a must for juniors and seniors. It helps the student to deal with the changing roles in marriage, personal relationships, and adjustments to family crisis. Students explore individual and family concerns of contemporary living. Parenting concepts and skills are emphasized. Students learn through the use of panels, guest speakers, videos, journals, and discussion groups.

Course Title: **Life Planning**

Prerequisite: None

Level of students: 12

Credit: 1

This comprehensive course is designed for seniors who have not had previous experience in home economics. This course is designed to introduce the students to basic food and clothing skills. The course also includes basic consumer and housing skills for Life Planning.

Course Title: **Introduction to FACS**

Prerequisite: None

Level of students: 8

Credit: ½

This course is a semester course designed to introduce the students to two of many topics included in the Family and Consumer Science Program. Students will use problem solving techniques when working on the various projects throughout the course. Students will complete various projects in a 9 week sewing unit and then a 9 week foods unit.

TRADE AND INDUSTRY

Course Title: **Introduction to Trade & Industry**

Prerequisite: None

Level of students: 8

Credit: ½

Introduction to Industrial Technology is designed to introduce the students to the areas of technical drawing, Woodworking, and Metals. Students will create small projects woodworking and/or metals; and students will learn sketching and computer aided drawing (AutoCAD) in technical drawing.

Course Title: **Engineering (Drafting / CAD)**

Prerequisite: none

Level of students: 9 – 12

Credit: 1

This is a course using a step by step approach to computer aided design (CAD). Students will learn to use a variety of 2 dimensional and 3 dimensional computer programs to create technical designs. Students will build and test physical models of some designs (for example; bridges, electric vehicles, towers).

Course Title: **Engineering II (Advanced Drafting / CAD)**

Prerequisite: Engineering I

Level of students: 11 – 12

Level of students: 10 – 12

Credit: 1

An advanced, application level course designed to build on and apply the skills learned in Drafting/CAD. Students will learn to use a variety of 2 dimensional and 3 dimensional computer programs to create technical designs. Students will learn to create computer simulations to test mechanical strength, thermal dynamics, and fluid dynamics. Students will build and test physical models of some designs and compare these to computer simulations.

Course Title: **Woodworking Principles (Woodworking 1)**

Prerequisite: none

Level of students: 9 – 12

Credit: 1

This is a beginning course in woodworking technology. The student will learn hand and machine tool safety and the correct method of using hand tools and machine tools. The student will also be introduced to furniture construction techniques and finishing. Students will construct woodworking projects as to their capabilities.

Course Title: **Furniture & Cabinetry Fabrication (Woodworking 2)**

Prerequisite: Woodworking Principles

Level of students: 10-12

Credit: 1

This is an advanced level application course designed to provide students with experience in constructing cases, cabinets, counters, furniture and interior woodwork. All students will be required to make a higher skill project. Major chapters or units: Identifying materials, Wood shop safety, Machine safety, Hand tool operations, Machine tool operations, Types of wood joints, Finishing techniques.

Course Title: **Production Welding Processes I**

Prerequisite: none

Level of students: 9 – 12

Credit: 1

This course is designed to instruct students in the knowledge and skills needed to perform welding procedures. Students will also learn machining processes, sheet metal processes, and metal casting. Students will create projects using all of these processes.

Course Title: **Production Welding Processes II**

Prerequisite: Production Welding Processes I

Level of students: 10 – 12

Credit: 1

This is an advanced level application course that builds on skills learned in Production Welding Processes I and provides opportunities for applying welding skills. All students will be required to make a higher skill project.

Course Title: **Intro to Ag**

Prerequisite: None

Level of students: 9

Credit: 1

Introduction to Agriculture courses survey a wide array of topics within the agricultural industry, exposing students to the many and varied types of agriculture and livestock career opportunities and to those in related fields (such as natural resources). These courses serve to introduce students to the agricultural field, providing them an opportunity to identify an area for continued study or to determine that their interest lies elsewhere. They often focus on developing communication skills, business principles, and leadership skills.

Course Title: **Ag Science**

Prerequisite: None

Level of students: 9/10

Credit: 1

Provides an overview of the plant industry, careers and the anatomical, taxonomy, physiological structures of plants. Photosynthesis, respiration and transpiration of plants and the interdependence of plants and their growth. Soilless systems, Reproduction, plant diseases and marketing of plant products

Course Title: **Ag Business**

Prerequisite: Intro/Ag Science

Level of students: 10-12

Credit: 1

Agribusiness Management courses provide students with the information and skills necessary for success in agribusiness and in operating entrepreneurial ventures in the agricultural industry. These courses may cover topics such as economic principles, budgeting, risk management, finance, business law, marketing and promotion strategies, insurance, and resource management. Other possible topics include developing a business plan, employee/employer relations, problem-solving and decision making, commodities, and building leadership skills. These courses may also incorporate a survey of the careers within the agricultural industry.

Course Title: **Animal Science**

Prerequisite: Intro/Ag Science

Level of students: 11-12

Credit: 1

Animal Production/Science courses impart information about the care and management of domestic and farm animals. These courses may cover animal nutrition, health, behavior, selection, reproduction, anatomy and physiology, facilities, product processing, and marketing. Students may study a particular species (swine, cattle, horses, fowl, sheep, and so on), or they may learn how to care for and maintain livestock as a more inclusive study.

Course Title: **Adv. Animal Science**

Prerequisite: Animal Science

Level of Students: 11-12

Credit: 1

Adv Animal Science courses impart information about the causes, diagnosis, and treatment of diseases and injuries of animals, typically emphasizing domestic and farm animals. Course topics focus on anatomy and physiology, nutrition, behavior, and reproduction, but may also include other areas of study as appropriate.

Course Title: **Plant & Soil Science**

Prerequisite: Intro/Ag Science

Level of students: 11-12

Credit: 1

Courses expose students to the art and science of growing plants, shrubs, trees, flowers, fruits, agriculture crops and vegetables. In doing so, they cover a wide variety of topics, including greenhouse and nursery operations, soils & media mixtures, soil chemistry, fertility, mineralogy, hydrology, soil conservation, irrigation, fruit and vegetable production, turf/golf course management, interior and exterior plantscaping, irrigation systems, weed & pest control, & floral design.

Course Title: **Crop & Range Management**

Prerequisite: Intro/Ag Science + Plant & Soil Sci

Level of Students: 11-12

Credit: 1

Crop & Range Management course imparts the application and skills needed to bring plant products to market. It may cover a wide variety of topics, including plant production, quality selection and preservation, equipment care and sanitation, government regulations, and marketing and consumer trends. This course may present an overview of product processing or may specialize in specific plant products and challenges related to range and pasture management.

ENGLISH LANGUAGE ARTS

Requirements

In order to graduate, four and a half credits of English Language Arts are required.

Courses

Course Title: **English I**

Level of students: 9

Credit: 1

English I builds upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and includes the four aspects of language use: reading, writing, speaking, and listening. English I will cover various novels, Shakespeare's *The Tragedy of Romeo and Juliet*, short stories, Homer's *The Odyssey*, and various types of writing assignments.

Course Title: **English II**

Level of students: 10

Credit: 1

English II offers a balanced focus on composition and literature. Students learn about written compositions by writing persuasive, critical, and creative multi-paragraph essays and compositions. English II will cover Shakespeare's *A Midsummer Night's Dream*, poetry, short stories, a research paper, a novel, and several types of writing assignments.

Course Title: **English III/American Literature**

Level of students: 11

Credit: 1

Students will study American literature from the Puritans through the Contemporary period. The course will examine the relationships between American literature, history, and culture. Students will read novels, government documents, letters, essays, autobiographies, poetry, short stories, and an American play. Students will write a variety of essays and responses. Speaking skills will be required through discussion and presentations. Grammar and ACT preparation will also be covered.

Course Title: **Speech**

Prerequisite: none

Level of Student: 10-12 (required)

Credit: ½

Speech is a required semester course. Sophomores through Seniors can take the course. Students will write and perform various speeches in class. Students will also analyze speaking techniques and participate as an audience. Speech is also available through PCC for college credit.

Course Title: **English IV/British Literature**

Level of students: 12

Credit: 1

English IV provides a survey of English literature and history. Students will examine British texts throughout a variety of time periods. Students will read novels, poetry, short stories, and a play. Students will write several compositions, as well.

Course Title: **Composition I**

Prerequisites: 3 Credits ELA, Minimum 18 ACT Score or Accuplacer Test score of 69 or above

Level of students: 12

Credit: ½

Composition I is a semester course offered for college credit through PCC for seniors only. Students will write a variety of essays, complete a research project, and take a course midterm and final.

Course Title: **Composition II**

Prerequisite: Composition I

Level of Students: 12

Credit: ½

Composition II is a semester course offered for college credit through PCC for seniors only. Students will read short stories and write literary analysis essays. Students will also write a research paper and take a course midterm and final.

The following additional courses are offered online through FuelEd:

English Foundations I

English Foundations II

Grammar and Composition

Journalism

MATHEMATICS

Course Title: **Algebra I**

Prerequisite: earn a C or above in 8th grade math

Level of students: 9-12

Credit: 1

Course Rationale: Algebra 1 is the critical element in secondary mathematics education. Topics introduced in Algebra 1 provide the foundation students require for future success in high school mathematics, critical thinking, and problem solving. The primary goal in Algebra 1 is to help students transfer their concrete mathematical knowledge to more abstract algebraic generalizations.

Course Description: Algebra 1 topics include recognizing and developing patterns using tables, graphs and equations. In addition, students will explore operations on algebraic expressions, apply mathematical properties to algebraic equations. Students will solve problems using equations, graphs and tables to investigate linear relationships. Technology will be used to introduce and expand upon the areas of study listed above. Use of computers and graphing calculators will be incorporated into each module.

Course Title: **Algebra II**

Prerequisite: Algebra I

Level of Students: 9 – 12

Credit: 1

Course Rationale: Mathematics provides the conceptual basis for the structure of many things around us. This course is an extension of the Algebra 1 curriculum. Topics that were first introduced in Algebra 1 will be built upon and applied to problems that require higher order thinking skills. Additional topics will also be introduced in a variety of methods, including self-discovery activities, group project and presentations, and teacher led class discussions. Algebra 2 builds a foundation of mathematics for those students going on to Pre-Calculus and/or students who are college bound. Along with many colleges, a majority of careers require a successful completion of an Algebra 2 course.

Course Description: Fundamental skills of mathematics will be applied to such topics as functions, equations and inequalities, logarithmic and exponential relationships, quadratic and polynomial equations. Technology will be used to introduce and expand upon the areas of study listed above. Use of computers and graphing calculators will be incorporated into each chapter.

Course Title: **Pre-Algebra**

Prerequisite: None

Level of students: 9-12

Credit: 1

02051 - Pre-Algebra Pre-Algebra courses increase students' foundational mathematics skills and prepare them for Algebra I by covering a variety of topics, such as properties of rational numbers (i.e., number

theory), ratio, proportion, estimation, exponents and radicals, the rectangular coordinate system, sets and logic, formulas, and solving first-degree equations and inequalities.

Course Title: Math I

Prerequisite: None

Level of students: 9 – 12

Credit: 1

Math I provides the students with the introductory concepts and methods of Algebra. This course is a slowed down approach to the Algebra I class. The class covers the first two thirds of the Algebra I book.

Major chapters: Data and Patterns in Algebra, Patterns with Integers, Rational Numbers and Probability, Geometry Connections, Addition and Subtraction I Algebra, Multiplication and Division in Algebra, Solving Equations and Inequalities, Linear Functions, Applying Statistics, a Preview of Functions.

Course Title: Math II

Prerequisite: Math I

Level of students: 9 – 12

Credit: 1

Math II provides the students with the introductory concepts and methods of Algebra. This course is a slowed down approach to the Algebra I class. The class covers the last third of the Algebra I book the first semester and moves on to cover the basics of geometry the second semester.

Major chapters: Functions, Equations and Inequalities, Linear Functions and Systems, Matrices, Probability and Statistics, Transformations, Exponents, Polynomials and Factoring, Quadratic Functions, Radicals and Coordinate Geometry, Rational Functions.

Course Title: Geometry

Prerequisite: Algebra I or Pre-Algebra I and Pre-Algebra II

Level of students: 10-12

Credit: 1

Course Rationale: Geometry is a critical component of a mathematics education because students are required to relate concepts from Algebra I and Algebra II to geometric phenomena. This course requires students to focus on logical proof and critical thinking when solving problems or evaluating arguments. Much of the course is focused on preparation for Pre-Calculus, and thus several concepts and activities preview topics from these higher-level mathematics courses and analytic geometry. Most post-secondary institutions require students to take a geometry course in high school because this subject provides the necessary mathematical tools for complex reasoning and solving problems in the sciences, technology, engineering, and many skilled trades and professions.

Course Description: The Geometry course includes an in-depth analysis of plane, solid, and coordinate geometry as they relate to both abstract mathematical concepts as well as real-world problem situations. Topics include logic and proof, parallel lines and polygons, perimeter and area analysis, volume and surface area analysis, similarity and congruence, trigonometry, and analytic geometry. Emphasis will be placed on developing critical thinking skills as they relate to logical reasoning and argument. Students will be required to use different technological tools and manipulatives to discover and explain much of the course content.

Course Title: **Pre-Calculus / College Algebra** Prerequisites: Algebra I, Geometry, Algebra II

Level of students: 11 - 12 Credit: 1

Course Description: This course is designed to cover topics in Algebra ranging from polynomial, rational, and exponential functions to conic sections. The six trigonometric functions will be studied using a right triangles, unit circles and (x,y) coordinate planes. Students will also study analytic geometry. This class is important for any student planning to take Calculus or other college level math classes.

Course Title: **Calculus** Prerequisite: Pre-Calculus

Level of students: 11 - 12 Credit: 1

Calculus is a transition course to upper-division mathematics and computer science courses. Students will extend their experience with functions as they study the fundamental concepts of calculus: limiting behaviors, difference quotients and the derivative, Riemann sums and the definite integral, antiderivatives and indefinite integrals, and the Fundamental Theorem of Calculus. Students review and extend their knowledge of trigonometry and basic analytic geometry. Important objectives of the calculus sequence are to develop and strengthen the students' problem-solving skills and to teach them to read, write, speak, and think in the language of mathematics.

The following additional courses are offered online through FuelEd:

Consumer Math (Core)

Probability and Statistics (Comprehensive)

SCIENCE

Course Title: **Physical Science**

Prerequisite: None

Level of students: 9

Credit: 1

Physical Science is designed for students who are interested in obtaining a basic science background. This course deals with non-living systems, including basic concepts of chemistry and physics. Laboratory experiments and demonstrations accompany each unit.

Course Title: **Biology I**

Prerequisite: None

Level of students: 10 (required)

Credit: 1

Biology I deals with the study of life. Practical applications to life will be included. Also, select plants and animals will be studied representing general groups of organisms. The approach involves laboratory study.

Course Title: **Advanced Biology (Biology II)**

Prerequisite: Biology

Level of students: 11-12

Credit: 1

Advanced Biology is a continuation of the first course of biology. This course emphasizes basic human anatomy and physiology. Laboratory exercises accompany each unit. This course is designed for students who are interested in a related field of study as a profession.

Major chapters or units: Cellular structure(review), Hearing and equilibrium, Cellular chemistry (review), Food and nutrition, Human framework, Digestive system, Muscle tissue, Respiration, Nervous system, Transport system, Eye and vision, and Heredity.

Course Title: **Chemistry**

Prerequisite: Algebra I (Algebra II helpful)

Level of students: 11 – 12

Credit: 1

This course is designed to meet the various prerequisites of college chemistry and to be introduced to practical applications of chemistry to everyday life. Neither objective will be stressed over the other. A problem-solving approach will be used during lectures and class discussions. Job profiles in chemistry will be included.

Major chapters or units: Chemical measurements, Equations and mass relationships, Matter and its changes, Gas Laws, Atomic structure, Solutions, Periodic Law, Acids, bases, and salts, Chemical bonds, Chemical equilibrium, Chemical composition, Oxidation-Reduction, Introduction to Organic Chemistry (if time permits).

Course Title: **Physics**

Prerequisite: Algebra I and some Trigonometry

Level of students: 12

Credit: 1

This physics course will present you with the basic concepts and principles that will form a foundation for most of your studies of science and technology.

Major chapters or units: Physics: A Mathematical Science, Mathematical Relationships, Motion in a Straight Line, Graphical Analysis of Motion, Forces, Vectors, Motion in Two Dimensions, Universal Gravitation, Momentum and its Conservation, Work, Power, and simple Machines, Energy, Thermal Energy, Gas Laws, States of Matter, Waves and Energy Transfer, Electric Currents, Series and Parallel Circuits.

The following additional courses are offered online through FuelEd:

Anatomy and Physiology I
Anatomy and Physiology II
Earth Science
Environmental Science
Forensic Science

SOCIAL SCIENCE

Course Title: **World Geography**

Prerequisite: None

Level of students: 9 – 12

Credit: 1

This course explores how physical features of the earth, population settlement patterns, human activities, customs, and traditions contribute to defining a place, a culture, and a people. The course examines how the land, features, people and cultures of the world affect the social, political, and economic character of nations and regions.

Major Units/Chapters of Study: Latin America, Europe, North Africa and the Middle East, Sub-Saharan Africa, North Asia, South Asia, and Australia, Antarctica, and the Pacific World.

Course Title: **World History**

Prerequisite: None

Level of students: 10 – 12

Credit: 1

The World History course covers the time period from around 1300 C.E. through the fall of the Soviet Union in the early 1990s. The course will cover intellectual trends, revolutionary movements, social interactions, political ideologies, economic theories, and geographical impacts. Students will focus on critical events, people, and turning points during these centuries including the Renaissance, imperialism, and twentieth-century issues.

Major Units/Chapters of Study: The Medieval World (300 - 1500), Renaissance and Reformation (1300 - 1600), Exploration and Expansion (1450 - 1700), Changes in Europe (1550 - 1770), Revolution and Reform (1750 - 1850), Industrial Revolution (1750 - 1880), Nationalism and Imperialism (1800 - 1910), The World at War (1910-1950), and the Cold War and Beyond (1945 - present)

Course Title: **American History**

Prerequisite: None

Level of students: 11 (required)

Credit: 1

This class studies the development of the United States from the period after the Civil War through today. Students will study various political, social, religious, and economic developments to see how each have shaped the United States. Students will also look at major events and people who have impacted the development of the United States.

Major Units/Chapters of Study: Reconstruction Period; Immigration, Industrialization, and Progressives; Expansion and Imperialism; World War I; the Roaring 20s; Great Depression and the New Deal; World War II; Cold War Conflicts (Korean War, Vietnam War); Civil Rights Movement and Social Change; 21st Century.

Course Title: **American Government**

Prerequisite: American History

Level of students: 12 (required)

Credit: ½

This class will look at the American government from the perspective of political science. We will focus on the legal foundations and the major institutions of the state: constitutions, laws, executives, legislatures, bureaucrats, and judges. We will also study informal as well as formal governing institutions. We will look at political beliefs and behavior as well.

Major chapters or units: The Foundations of Government, American Federalism at Work, Political Participation and Influence, Policy Arenas in America, The Legislative Branch, The Executive Branch, the Judicial Branch, Civil Liberties and Civil Rights, State and Local Governments.

Course Title: **Psychology**

Prerequisite: None

Level of students: 11 – 12

Credit: ½

This course focuses on individual behavior and why an individual thinks, feels, and reacts to certain stimuli. Major emphasis will be placed on research methods, how the brain works, altered states of consciousness, learning and cognition, and current psychology trends.

Major chapters or units: What is Psychology, psychological methods, biology and behavior, sensation and perception, consciousness, learning, memory, thinking and language, intelligence, development, and social interaction.

The following additional courses are offered online through FuelEd:

Anthropology

Civics

Contemporary World Issues

Economics

Modern U.S. History

Modern World Studies

U.S. and Global Economics

MISCELLANEOUS

Course Title: **Driver's Education**

Prerequisite: Meet age requirement, Have a valid learner's permit

Level of students: 9-12

Credit: ½

Driver Education will introduce and develop the "beginning driver" with proper knowledge, proper skills, attitude, and knowledge of safety. As each part is necessary for the improvement of techniques. The course will consist of at least 30 hours of classroom instruction and at least 4 driving sessions behind the wheel. This course is offered during the summer.

Major chapter or units: The Driving Task, Controlling Your Vehicle, Driving in Different Environments and Situations, Being a Responsible Driver.

Course Title: **Student Aide**

Prerequisite: 2.5 G.P.A.

Level of students: 12

Credit: 1

Senior students may work in the school office, or for high school and grade school teachers.

CAREER-BASED EDUCATION

Course Title: **Career Based Occupations**

Prerequisite: Attendance/GPA

Level of students: 12

Credit: 1 to 3

This class is an integral part of USD 332's career education program. Its purpose is to integrate academic, career, and technological learning experiences, and to provide training at a point that is most beneficial to the student's learning. To participate the student must have successfully completed the pre-requisite courses in a program; demonstrate pre-requisite skills for employment; meet the hiring criteria and process of the employer; and be assigned to a partnership by a Work-based learning coordinator. Students must be on schedule to graduate; have 95% attendance in the prior semester; minimum GPA of 2.0; and successful completion of all entry level courses within a career pathway.

Students must be approved by the principal, with assistance from the guidance department. Final approval will be determined by the board of education. Each applicant will be considered on an individual basis.

What is the purpose of Career-Based Education (CBE) Training?

- Provide paid or unpaid work-site training in high skill careers
- Integrate academic, career, and technology learning experiences

- Transition students to post-secondary education and/or the workforce
- Provide credentials recognized by employers
- Provide training at a point that is most beneficial to the student's learning

Can I participate in the CBE Training Program?

There are four requirements. Participants must:

- **Successfully complete the pre-requisite courses in a program**
- **Demonstrate pre-requisite skills for employment**
Including these skills: good manners, have a business-like manner, be adaptable, be safety conscious, be adaptable, good attitude, self-confident, mature, honesty, punctuality, proper health and grooming habits, appropriate dress, appropriate use of language, dependable and responsible, and a willingness to learn
- **Be assigned to a partnership by a CBE Coordinator**
- **Meet the hiring criteria and process of the employer**

Pre-requisites:

- **On schedule to graduate**
- **95% attendance during the prior semester**
- **Approval of the Career-Based Training Coordinator and the Principal**
- **Successful completion of all entry level courses within a career pathway**
- **Minimum of a "C" GPA during the prior semester**
- **Acceptance by the employer**
- **Must be a senior at Cunningham High School**
- **Must be at least 16 years of age**
- **Must have an appropriate work site which is approved by the Career-Based Training Coordinator**
- **Must follow all school and company policies and procedures**
- **Must not have any unexcused absences from work**
- **Must meet weekly with the Work-based learning coordinator to report on activities**
- **Will receive a grade and credit towards graduation**

Student Responsibilities in the Career Based Occupation Program

- **Must be in regular attendance at the work site**
- **Must complete assigned work tasks**
- **Must notify adult supervisor if the student will be late or absent**
- **Must seek assistance with work site problems**
- **Must comply with CHS handbook policies as well as business place policies**
- **Must keep a daily log of worksite attendance and experiences**
- **Must complete any assignment that accompanies the program**
- **Must notify the high school counselor if any placement problems arise**
- **Must try to learn as much as possible about the supervisor's job and qualifications**

Each student will be considered on an individual basis by the USD 332 Board of Education.