

**BUNKER HILL HIGH SCHOOL
COURSE DESCRIPTION 2018-2019**

LANGUAGE ARTS

ENGLISH I

Grade 9

The first semester of English I is an intensive study of grammar, including parts of speech, sentences, composition, spelling, and vocabulary. The second semester of English I focuses on literature in a survey of genres--short story, drama, poetry, essay, speeches, novel, and biography. Literary terms and vocabulary will be studied in the selected works. Research techniques are covered and applied in a brief research report. An Accelerated Reading Program will be utilized, and writing assignments will be based upon the material read for class in both semesters.

(01001A000)

ENGLISH II

Grade 10

The principles of English grammar and structure will be applied to improve writing skills and adjust speech usage. Throughout this course, special emphasis will be placed on writing of all kinds. Students will write in all modes, beginning with a simple recording of personal experience. They will practice writing description, use comparison and contrast form, and finally, will use analytical, interpretative style to enhance the skills needed for a research paper. Vocabulary development and spelling skills are included as integral parts of the course. A general scope of literature is offered including units on the short story, drama, poetry, the essay, and the novel. Often, writing assignments will be based on ideas gained through the readings. **(01002A000)**

COLLEGE PREP ENGLISH I

Grade 9

CP English I is a college preparatory English course that places special emphasis on sentence structure, composition and literature, providing students with multiple opportunities to engage in a variety of reading, writing, viewing, speaking and research tasks, along with student-lead activities. The principles of English grammar and structure will be applied to improve writing skills and to adjust speech usage. Throughout this course, special emphasis will be placed on writing of all kinds. Students will write all modes, beginning with a simple recording of personal experience. They will practice writing description, use comparison and contrast, and will use analytical interpretive style to enhance the skills necessary for a research paper. Vocabulary development and spelling skills are included as integral parts of the course. Often, writing assignments will be based on ideas gained through the readings.

Prerequisite: B or above in 8th grade English, teacher recommendation

COLLEGE PREP ENGLISH II

Grade 10

CP English II is a college preparatory English course that places special emphasis on sentence structure, composition and literature, providing students with multiple opportunities to engage in a variety of reading, writing, viewing, speaking and research tasks. The principles of English grammar and structure will be applied to improve writing skills and adjust speech usage. Throughout this course, special emphasis will be placed on writing of all kinds. Students will write all modes, beginning with a simple recording of personal experience. They will practice writing description, use comparison and contrast form, and, finally, will use analytical interpretive style to enhance the skills necessary for a research paper. Vocabulary development and spelling skills are included as integral parts of the course. Often, writing assignments will be based on ideas gained through the readings. **(01005A000)**

Prerequisite: "C" or above in English I with teacher recommendation.

ENGLISH III**Grade 11**

This course includes a concentrated study of American writers and writings—including poetry, drama, essays, and the novel—representing virtually the entire history of the United States from the discovery of the new land to present day. This course is unique in that it examines American literature from an historical perspective as well as from a literary one. First semester is COMPOSITION 1 entailing the study of grammar, usage, sentence structure and an intensive application of writing skills. Students will compile essays for a variety of purposes to improve writing and research skills. Second semester consists of the study of American literature. Work (aside from the normal curriculum) includes team teaching, essays, newspaper work, and a variety of writing genres. Integrated within the study will be the reading of novels, approximately one novel per quarter plus the Accelerated Reading Program. **(01002A000)**

COLLEGE PREP ENGLISH III**Grade 11**

This course is the next step in the intensive college preparatory English program. The first semester includes a concentrated study of American writers and writings including poetry, drama, essays, and the novel – representing virtually the entire history of the United States from the discovery of the new land to present day. The second semester includes intensive work in grammar, sentence structure and writing skills to prepare and polish student skills for the ACT, SAT and PARCC exams. Students will write a number of essays in various modes and for various purposes, including a research paper. This course will examine American literature from an historical perspective as well as from a literary one. Work includes essays and a variety of writing genres. Integrated within the study will be the reading of novels, approximately one novel per quarter plus the Accelerated Reading Program requirements. **(01006A000)**

Prerequisite: CP English II or “C” or above in Eng. II with teacher recommendation.

ENGLISH IV**Grade 12**

During one semester, the class concentrates on integrating the study of British literature with the study of composition. Students will write four to five 2-3 page analytical essays on a particular aspect of a literary work. In addition, students are required to write an 8-10page, MLA formatted, research paper regarding Mary Shelley’s Frankenstein. Also, one semester’s emphasis will focus on the advanced study of grammar, usage, and composition through the writing of several essays and the final research paper. **(01004A000)**

COLLEGE PREP ENGLISH IV**Grade 12**

One semester the class concentrates on integrating the study of British literature with the study of composition. Students will write three to four 2-3 page analytical essays on a particular aspect of a literary work. In addition, students are required to write an 8-10 page poetry explication paper following the MLA format. One semester the emphasis is on an advanced study of grammar, usage, and composition through the writing of several essays and one research paper. Currently, the course matches the curriculum followed by ENGL 131 and 132 at Lewis and Clark Community College. Demanding and challenging course requirements reflect college level content and standards. **(01056A000) This is a Weighted Class**

Prerequisite: CP English III; Cumulative English Grade above “C”

ENGLISH 1 CONCEPTS

This course builds upon students’ prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and usually include the four aspects of language use: reading, writing, speaking, and listening. Typically, these courses introduce and define various genres of literature, with writing exercises often linked to reading selections. **(01001A000)Teacher recommendation**

ENGLISH/LANGUAGE ARTS 2

This course usually offers a balanced focus on composition and literature. Typically, students learn about the alternate aims and audiences of written compositions by writing persuasive, critical, and creative multi-paragraph essays and compositions. Through the study of various genres of literature, students can improve their reading rate and comprehension and develop the skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message. **(0102A000)Teacher Recommendation required**

ENGLISH/LANGUAGE ARTS 3

This course continue to develop students' writing skills, emphasizing clear, logical writing patterns, word choice, and usage, as students write essays and begin to learn the techniques of writing research papers. Students continue to read works of literature, which often form the backbone of the writing assignments. Literary conventions and stylistic devices may receive greater emphasis than in previous courses. **01003A000 Teacher recommendation required**

ENGLISH/COMPOSITION 3-4

This course blends composition and literature into a cohesive whole as students write critical and comparative analyses of selected literature, continuing to develop their language arts skills. Typically, students primarily write multi-paragraph essays, but they may also write one or more major research papers. **01004A000 Teacher recommendation required**

SPEECH

Grade 10-12

This one-semester speech class is designed to teach effective communication as it pertains to the individual speakers and listeners. The first nine weeks is interpersonal communications, and the second nine weeks is public speaking. Students will develop effective verbal and nonverbal skills through textbook information, lectures, group/class discussions, plus formal and informal speeches. Grades will be based upon class participation, tests, homework, speeches, and activities. **This is a required class usually taken during the 10th grade year. (01151A000)**

APPLIED ENGLISH & COMMUNICATIONS

Grade 11-12

Applied English and Communications courses teach students communication skills—reading, writing, listening, speaking—concentrating on “real-world” applications. These courses usually emphasize the practical application of communication as a business tool—using technical reports and manuals, business letters, resumes, and applications as examples—rather than emphasize language arts skills as applied to scholarly and literary materials. **(01156A000)**

ADVANCED COMMUNICATION

Grade 11-12

This semester speech course is designed to further enhance the comprehension of effective communication as it pertains to the individual in home, school, and/or work situations. Students will develop effective communication skills through speeches, interviews, resume work, group discussion, and other activities. **Prerequisite: Speech (01199A000)**

MYTHOLOGY

Grade 11-12

This one-semester course will focus primarily on the study of Greek and Roman mythology, plus additional cultural mythologies relevant to the study of history and literature. **(01999A000)**

CREATIVE WRITING

Grade 10-12

This semester- long course will involve a study of various types of prose and poetry and practice writing in a variety of forms and styles. **(01104A000)**

Prerequisite: "C" or above in the previous year's English course

LITERACY CONCEPTS

This course offers diagnostic and remedial activities designed to correct reading difficulties and habits that interfere with students' progress in developing reading skills and understandings. Activities are chosen to increase or improve students' reading comprehension, reading technique, and general literacy skills. **(01068A000) Teacher recommendation required.**

MATHEMATICS

ALGEBRA CONCEPTS

This course combines the study of some pre-algebra and algebra topics with introductory geometry topics. It includes the study of formulas, algebraic expressions, first degree 13 equations and inequalities, the rectangular coordinate system, area, perimeter, and volume of geometric figures, and properties of triangles and circles.

(02074A00) Teacher recommendation required

ALGEBRA 1A

Grade 9-10

This is a one-year course designed to cover the basic principles of algebra. It is helpful for students who may not yet be ready to handle the math operations of regular algebra. Topics include equations, graphs, exponents and inequalities.

This course or Algebra I is a graduation requirement. (02053A000)

ALGEBRA I

Grade 9-11

This is a one-year course designed to cover the principles of algebra. Topics include equations, graphs, exponents, and inequalities. **(02051A000)**

This course is a requirement for graduation.

GEOMETRY CONCEPTS

Grade 10-12

This is a yearlong course. Unlike traditional geometry courses, the construction of proofs will be at a minimum. Students will study the language and logic of geometry, triangles and properties of triangles, quadrilaterals, right triangle trigonometry, circles, area, and volume and coordinate geometry. **(02079A000)**

Prerequisite: Algebra I or passing grades in Algebra 1A

This course, or Geometry, is a requirement for graduation.

GEOMETRY

Grade 9-12

This course is a yearlong study of the language and logic of geometry. Topics that are studied include properties of triangles, quadrilaterals, right triangle trigonometry, and circles along with area, volume and coordinate geometry. Students will relate logic, theorems, postulates and definitions to construct two column proofs. Previously learned algebra skills will be used to problem solve. Students will be familiar with geometry terms and formulas.

(02072A000)

Prerequisite: Algebra I; This course, or Geometry Concepts, is a requirement for graduation.

ALGEBRA II**Grade 10-12**

In this class, review in the topics of Algebra I is provided while middle-level / advanced algebra skills are introduced and practiced. Emphasis is given to systems of linear equations, quadratic equations, and polynomial functions.

(02056A000)

Prerequisite: Geometry or permission of teacher. Sophomores, juniors, and seniors who wish to enroll in this course and take Geometry at the same time may do so if they have demonstrated strength in mathematics AND obtain permission from both math teachers.

ALGEBRA IIA**Grade 11-12**

This class is designed to review the basic topics of Algebra II. It is helpful for 10th or 11th grade students who struggled in other math classes and who may not yet be ready to handle the math operations of regular algebra II. Topics include systems of linear equations, quadratic equations, and polynomial functions. **(02054A000)**

ALGEBRA ADVANTAGE**Grade 12**

This class is designed for high school seniors with a math ACT score of 21 or below who plan to enroll at Lewis & Clark Community College upon graduation. This class can also be taken by any student who has not passed Algebra II. Successful completion of this course (earning a grade of C or higher both semesters) would waive a math placement exam and allow students to enroll directly in MATH 137, MATH 145, MATH 131, or MATH 142 at Lewis & Clark Community College. **(02069A000)**

COLLEGE PREP MATH LAB**Grade 11-12**

This class can be taken as a 4th year math option or prior to PreCalculus/Trigonometry as an intermediate step from Algebra II or taken after PreCalculus/Trigonometry as a college bound option to Calculus. Students will review, practice, and explore topics in elementary, intermediate and college algebra along with trigonometry topics. The goal is to give students the opportunity to prepare for appropriate math placement at a college or university.

(02069A000)

Prerequisite: Junior or Senior standing and Algebra II or concurrent enrollment in Algebra II

TRIG/PRE-CALCULUS**Grade 11-12**

Advanced mathematics will be studied, and students will be introduced to new topics in the area of trigonometry, logarithmic algebra, and equations / graphs involving trigonometric functions. Curve sketching, conic sections, polar coordinates and combinatorics are also discussed. The goal is to acquire a mastery of algebraic skills and prepare for calculus topics. This course may be taken for dual credit and Lewis and Clark. **(02110A000)**

Prerequisite: Algebra II with a C or better

CALCULUS**Grade 12**

The concepts of calculus including limits, derivatives, integrals, and their applications are the general focus. This course is designed to cover those topics in a first semester college calculus class. Students will be prepared to enroll in a second semester of college calculus, or they will be prepared for successful completion of first semester calculus on a college campus. Students are introduced to the standard concepts and language needed for college mathematics courses. Intermediate algebra, analytic geometry, and trigonometry are integrated. This course is available for college credit through LCCC. **(02110A000) This is a weighted class.**

Prerequisite: Trig/Pre-Calculus with a C or better

TECHNICAL MATH

Grade 11-12

Technical Math courses extend students' proficiency in mathematics, and often apply these skills to technical and/or industrial situations and problems. Technical Math topics may include but are not limited to rational numbers, systems of measurements, tolerances, numerical languages, geometry, algebra, statistics, and using tables, graphs, charts, and other data displays. Technology is integrated as appropriate. This course may be available for college credit through LCCC as Math 122 and Math 125. **(02153A000)**

SCIENCE

CHEMICAL/PHYSICAL SCIENCE

Grade 9-10

This course offers students the opportunity to learn about the physical world around them through hands-on activities. The concepts are linked to life experiences, as well as world events that pertain to physical science principles. The areas of study include atoms, the periodic table, compounds, and classification of matter, Earth's composition, space science, Earth events, force, motion, work, power and waves. Research projects will be a part of the course work. Previous or concurrent enrollment in Algebra I strongly recommended. **(03159A000)**

Recommended for freshmen

BIOLOGY

Grade 9-12

This course provides the students with a basic understanding of general biology topics. These topics include the following: biological themes and processes; cell structures and functions; plus, history, evolution, classification, animal systems, genetics, biodiversity, and plants. This is a lab-oriented course, which provides students with an opportunity to learn basic laboratory procedures and dissection skills; this course is accepted as a college-entrance requirement. **(03051A000)**

ENVIRONMENTAL SCIENCE

Grade 11-12

Environmental Science courses examine the mutual relationships between organisms and their environment. In studying the interrelationships among plants, animals, and humans, these courses usually cover the following subjects: photosynthesis, recycling and regeneration, ecosystems, population and growth studies, pollution, and conservation of natural resources. **(03003A000)**

MICROBIOLOGY

Grade 11-12

Microbiology is a one-year course that provides students with a general understanding of the basic groups of microbes, including Archaea, bacteria, viruses, and fungi. Specifically, the course will cover microbial replication and reproduction, growth patterns, symbiotic relationships, diseases caused by microbes, and microbial uses. Lab experiments using microscope observations will be conducted to study antibiotic effectiveness and microbial action in global health issues. Microbiology will benefit students interested into pursuing a career in the biological sciences as well as a medical profession. **(03060A000)**

Prerequisite: Biology with a "C" or better

GENETICS

Grade 11-12

Genetics is the study of the science of heredity. It is a one-semester course that will cover the molecular nature of the genetic material, how genes control metabolism and development, and the distribution and behavior of genes in populations. Students will use technology and learn more advanced lab skills. **(03059A000)**

Prerequisite: Biology with a 'C' or better

ECOLOGY**Grade 11-12**

Ecology is the study of relationships between organisms and the environment. This one-semester class will include the study of biomes, cycles in nature, symbiotic relationships, population dynamics, effects of pollution and environmental management. This class will incorporate technology, labs and fieldwork. Basic lab skills & fieldwork techniques will be taught.

Prerequisite: Biology with a 'C' or better. (03059A000)

HUMAN PHYSIOLOGY & ANATOMY**Grade 11-12**

This one-year course is the study of the structure of the human body and how it performs vital functions. We will cover cellular functions more extensively. Each body system (nervous, muscular, skeletal, digestive, excretory, respiratory, reproductive, immune, and endocrine) will be studied. Students will dissect organs and a mammal. The class includes labs and the use of biotechnology. Concepts learned in Biology and Genetics are applied to the human body. **(03053A000)**

Prerequisite: Biology and Genetics or teacher recommendation.

CHEMISTRY**Grade 10-12**

An introductory course in inorganic chemistry including classification of matter, atomic structure, types of chemical reactions, writing of chemical equations, stoichiometry (chemical arithmetic), acids, bases and salts, plus concentrations of solutions. **(03101A000)**

Prerequisite: Algebra I

PHYSICS**Grade 11-12**

This is a course involving the study of the fundamentals of matter and energy and the interactions between the two. Concepts are developed with applications from everyday experiences. Topics include motion, forces, energy, work, power, sound, and light. Research projects play a significant role in curriculum, including projects on force, momentum, and energy. Full participation with hands-on activities is expected. **(03151A000)**

Prerequisite: Trig/PreCalculus or Teacher Recommendation. This class is offered even years.

SOCIAL STUDIES/HISTORY**GEOGRAPHY****Grade 9-12**

This one-year course is designed for students to expand their understanding of cultural and physical geography and their relation to one another, political and government systems, global economics, and human behavior. Students will explore the different regions of the world and gain an understanding of differences in cultural norms, religion, immigration patterns and historical background. Students will develop maps, charts, graphs, and projects, which reinforce geographical skills and concepts. **(04001A000)**

WORLD HISTORY**Grade 9-12**

This is a yearlong course that provides students with a broad range of background historical knowledge. Some of the interesting topics covered will be describing key schools of thought among various world religions, early civilizations/empires, global unrest, change, and revolution. This class is a basis for an overall understanding of different world cultures. **(04051A000)**

ILLINOIS HISTORY

Grade 10-12

This one-semester course is ideal for those students wanting to learn more about local occurrences. Discovery, exploration, settlement and development of Illinois from past to present are all covered. Students will be involved in a wide variety of activities: reading, oral reports, illustrations, map reading, lecture, and discussion. **(04105A000)**

PSYCHOLOGY

Grade 11-12

This course gives an overview of the basic theories and principles of behavior and mental processes. This will include psychology as a science, physiology and behavior, states of consciousness, emotion and motivation; heredity and experience; perception and personality dynamics, social aspects, and learning and memory. Students will be involved in activities such as reading, oral reports, lecture, discussions, and research papers. This is a one-semester course and offered for dual credit with LCCC as General Psychology 131. **(04254A000)**

US HISTORY

Grade 11-12

U.S. History—Comprehensive courses provide students with an overview of the history of the United States, examining time periods from discovery or colonialism through World War II or after. These courses typically include a historical overview of political, military, scientific, and social developments. Course content may include a history of the North American peoples before European settlement. **(04101A000)** **This class is required of all junior students.**

CIVICS

Grade 10-12

Civics courses examine the general structure and functions of American systems of government, the roles and responsibilities of citizens to participate in the political process, and the relationship of the individual to the law and legal system. These courses do not typically delve into the same degree of detail on constitutional principles or the role of political parties and interest groups as do comprehensive courses in U.S. Government. Graduation requirement for all students starting with incoming class of 2016-2017 **(04161A000)**

MODERN US HISTORY

Grade 10-12

This is a one-semester class that focuses on the post-World War II era to the present. Learning includes analyzing historical trends of US foreign policy, evaluating contemporary events and demonstrating comprehensive knowledge. **(04103A000)**

WESTERN CIVILIZATION I

Grade 11-12

This semester course explores the emergence of leading political, economic, social and cultural institutions that characterize Western Civilization beginning with the emergence of Greek civilization through 18th century Europe. This course is designed to aid the student in understanding the modern world in which she/he lives. Students will be able to identify the various influences and events, as well as the significance of these events and influences on the modern world. In addition, students will utilize and develop an awareness of the history of Western Europe as a means of reflecting and evaluating the human experience.

CURRENT EVENTS

Grades 10-12

This course is designed to give students the opportunity to study, research, analyze, and discuss major issues that are affecting their lives today. Students will increase their awareness levels on local, state, national, and international issues by exploring and utilizing newspapers, news magazines, television, and radio as text material. **(04064A000)**

HOLOCAUST**Grade 10-12**

This one-semester class will cover Pre-World War II, National Socialism, racism, plus the events and ideology leading to and through the Holocaust. Students will examine the historical, literary, and psychological effects of the Holocaust. **(04065A000)**

AP EUROPEAN HISTORY

AP European History Following the College Board's suggested curriculum designed to parallel college-level European History courses, AP European History courses examine European civilization from the High Renaissance period to the recent past and also expose students to the factual narrative. In addition, these courses help students develop an understanding of some of the principal themes in modern European history and the abilities to analyze historical evidence and to express that understanding and analysis in writing. **(04056A000) This is a weighted class.**

HONORS US HISTORY

U.S. History—Comprehensive courses provide students with an overview of the history of the United States, examining time periods from discovery or colonialism through World War II or after. These courses typically include a historical overview of political, military, scientific, and social developments. Course content may include a history of the North American peoples before European settlement. This course is dual credit through Lewis and Clark as Hist 231 and Hist 232. **(04101A000) This is a weighted class.**

FINE ARTS**ART I****Grades 9-12**

This course is designed to give students a comprehensive introduction to both the creation of studio art and art history. This includes learning the fundamental principles and elements of art and gaining the ability to identify various masterpieces, artists, tools, and techniques. This course will help students acquire the language necessary to articulate reasoned opinions about art and knowledge of basic skills in the production of a variety of media. **(05156A000)**

ART II**Grades 10-12**

This course is designed to give students a more in-depth look at both studio art and art history. Students should know the principles and elements of art and be able to identify various masterpieces, artists, tools, and techniques. This course will help students expand their art vocabulary and language by actively participating in class critiques and discussions about aesthetics. Students will refine their skills in a variety of media. The focus of the course is to provide students with the opportunity to explore art down avenues that interest them as they continue to create individual works of their own. **(05155A000)**

PREREQUISITE: Art I**SPANISH I****Grade 9-11**

A one-year course designed to guide students toward functional communicative proficiency while developing a general insight into how languages work. Students will develop the ability to speak Spanish, learn about the personal and cultural experiences of young people from Spanish-speaking countries and explore career opportunities offered to speakers of Spanish. **(06101A000)Pre-requisite: C or above in English**

SPANISH II**Grade 10-12**

A one-year course offering a continuation of Spanish I. **(06102A000)**

Prerequisite: C or above earned in Spanish I.

SPANISH III**Grade 11-12**

A one -year course offering a continuation of Spanish II, including study of Spanish literature. **(06103A000)**

Prerequisite: C or above earned in Spanish II.

SPANISH IV**Grade 12**

A one- year course offering a continuation of Spanish III. **(06104A000)**

Prerequisite: C or above earned in Spanish III. This will be a weighted class starting 2018-2019

BAND**Grade 9-12**

To give students an opportunity to perform band literature of all types and to further their enjoyment of music.

(05101A000) Attendance at all performances is required. All members of the band are members of the Pep Band. Attendance at all home games is required.

AGRICULTURE**INTRODUCTON TO AGRICULTURE****Grade 9-12**

This course provides an opportunity for students to learn how the agricultural industry is organized; its major components; the economic influence of agriculture at state, national and international levels; and the scope and types of job opportunities in the agricultural field. Basic concepts in animal science, plant science, soil science, horticulture, natural resources, agribusiness management, and agricultural mechanics, will be presented. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. **(18001A001)**

BASIC AGRICULTURAL MECHANICS**Grade 9-12**

In this course, theory and hands-on experiences provide opportunities for students to develop basic knowledge and skills in agricultural mechanics. Instructional areas include the basic fundamentals of maintaining and repairing small gasoline engines, basic electricity, welding, construction, cold metal work, and operating agricultural equipment safely. Improving workplace and computer skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. **(18401A001)**

AGRICULTURAL CONSTRUCTION AND TECHNOLOGY**Grade 10-12**

This advanced course focuses on the knowledge, hands-on skills, and work place skills applicable to construction in the agricultural industry. Major units of instruction include: personal safety, hand tools, power tools, blue print reading, surveying, construction skills in carpentry, plumbing, electricity, concrete, block laying, drywall and painting. Careers such as agricultural engineers, carpenter, plumber, electrician, concrete and block layers, finishers, safety specialists, and other related occupations will be examined. Improving workplace and computer skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. **(18403A001) Prerequisite: Basic Ag Mechanics**

AGRICULTURAL METAL FABRICATION (WELDING)

Grade 11-12

This course will emphasize the development of basic welding and metalworking skills necessary to succeed in agricultural careers in the agricultural metal fabrication industry. Topics of instruction include: metal identification and properties, metal preparation, use of oxy-acetylene torch, plasma cutting and cutting operations, arc welding, MIG welding, TIG welding, and project design and construction. Improving workplace and computer skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. This course is available for college credit through LCCC (Welding 191 and Welding 193—3 credits).

(18404A000)

Prerequisite: Introduction to Technology I or Introduction to Agriculture or Basic Agriculture Mechanics with a “C” or better.

HORTICULTURE SCIENCE

Grade 11-12

This course is designed to introduce students to the horticulture industry and provide them with basic plant science knowledge that can be further developed in advanced horticulture courses. Major units of instruction include horticulture research, horticultural careers, plant anatomy, seed germination, plant propagation, growing media, pest management, hydroponics, identifying horticultural plants, growing greenhouse crops, and floral design. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

This course is available for college credit through LCCC (ECOLOGY 101 and ECOLOGY 102—3 credits).

(18052A001)

Prerequisite: Introduction to Agriculture or consent from the instructor.

PRE-VETERINARY STUDIES

Grade 10-12

This course will develop students' understanding of the small and companion animal industry, animal anatomy and physiology, animal ethics and welfare issues, animal health, veterinary medicine, veterinary office practices, and animal services to humans. Career exploration will focus on veterinarian, veterinary lab technicians, office lab assistant, small animal production, research lab assistant, and animal nutrition lab technician. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic co

(18105A000) Prerequisite: Introduction to Agriculture or consent of the instructor.

AGRUCULTURE BUSINESS

Grade 11-12

This course will provide students with the basic knowledge and skills necessary to manage personal finances and develop into a successful entrepreneur and/or businessperson. Instructional units include: business ownership types, starting an agribusiness, managing and operating an agribusiness, financing an agribusiness, managing personal finances, record keeping and financial management of an agribusiness, local, state, and federal taxes, agricultural law, and developing employability skills. Student skills will be enhanced in math, reading comprehension, and writing through agribusiness applications,

Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. **(18201A001)**

BUSINESS EDUCATION

ADVERTISING

Grade 11-12

This course exposes students to the varied concepts underlying the promotion of products. The topics included in Principles of Advertising courses range considerably, but typically include the psychology of advertising, a study of various media, advertising planning and budgeting, and advertising layout and design principles. Course topics may also include an overview of commercial art and packaging. **(12165A000)**

ACCOUNTING I

Grade 10-12

Accounting I is a course assists students pursuing a career in business, marketing, and management. This course includes planned learning experiences that develop initial and basic skills used in systematically computing, classifying, recording, verifying and maintaining numerical data involved in financial and product control records including the paying and receiving of money. Instruction includes information on keeping financial records, summarizing them for convenient interpretation, and analyzing them to provide assistance to management for decision making. Accounting computer applications should be integrated throughout the course where applicable. In addition to stressing basic fundamentals and terminology of accounting, instruction should provide initial understanding of the preparation of budgets and financial reports, operation of related business machines and equipment, and career opportunities in the accounting field. Processing employee benefits may also be included. **(12104A000)**

Prerequisite: Cumulative math grade of “C” or above

BUSINESS & TECHNICAL CONCEPTS

Grade 11-12

This Introductory Business course surveys an array of topics and concepts related to the field of business. These courses introduce business concepts such as banking and finance, the role of government in business, consumerism, credit, investment, and management. They usually provide a brief overview of the American economic system and corporate organization. Introductory Business courses may also expose students to the varied opportunities in secretarial, accounting, management, and related fields. **This course meets the state requirements for consumer education. Graduation Requirement (12001A001)** Students take this their Junior year.

COMPUTER CONCEPTS & APPS I

Grade 9-12

Computer Concepts and Software Applications is an orientation-level course designed to develop awareness and understanding of application software and equipment used by employees to perform tasks in business, marketing and management. Students will apply problem-solving skills to hands-on, real-life situations using a variety of software applications, such as word processing, spreadsheets, database management, presentation software, and desktop publishing. Students will explore topics related to computer concepts, operating systems, telecommunications and emerging technologies. The development of employability skills, as well as transition skills, will be included in the course as well as an understanding of the ethical considerations that arise in using information processing equipment and gaining access to available databases.

This is a one-semester class open to any student and is required for graduation. This course may be taken for college credit through LCCC (OTEC 026 - 3 credits). **(10004A001)**

Prerequisite: Word Processing I

ADVANCED COMPUTER CONCEPTS & SOFTWARE II—Desktop Publishing**Grade 10-12**

A one-semester class dealing in the fundamentals of page layout and design plus typography. Students will create documents such as stationery, newsletters, multi-page booklets, manuals, brochures, advertisements, business forms, etc. This course may be taken for college credit through LCCC (OTEC 115 - 1 credit). **(11152A000)**

Prerequisite: Word Processing I & Computer Concepts/Apps I

MULTIMEDIA**Grade 10-12**

This course prepares students to use web 2.0 tools and business-standard software applications to complete projects and solve problems. It is based upon media literacy and will provide the framework to access, analyze, evaluate, create and participate in real-life projects using media in a variety of forms. The applications include blogs, podcasts, videos, audacity audio manipulation, animation, and stop-animation videos. **(10203A000)**

Prerequisite: Word Processing I and Computer Concepts/Apps I

PRESENTATION GRAPHICS**Grade 10-12**

This course will spend one quarter on the application of presentation graphics using the program PowerPoint. Students will learn to make easy to complex graphic presentations. The second quarter will be spent on Adobe PhotoShop. Students learn the techniques of optimizing graphic files, creating backgrounds, inline and button graphics, and GIF animations. This course may be taken for college credit through LCCC (OTEC 114 - 1 CREDIT and WEB 145 - 1 CREDIT). **(10249A000)**

Prerequisite: Word Processing I & Computer Concepts/Apps. I

PRODUCT-ORIENTED MARKETING**Grade 10-12**

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. **(12164A001)**

WEB DESIGN I**Grade 10-12**

Web Page and Interactive Media Development I is a skill-level course designed to prepare students to plan, design, create and maintain web pages and sites. Students will learn the fundamentals of web page design using HTML, HTML editors, and graphic editors as well as programming tools such as JavaScript. Students will work in a project-based environment to create a working website. Students will learn to create pages, add hyperlinks, make tables and frames, create forms, integrate images, and set styles. Students will use image-editing programs to manipulate scanned images, computer graphics, and original artwork. Instruction will include creating graphical headers, interactive menus and buttons, and visually appealing backgrounds.

Students will use hardware and software to capture, edit, create, and compress audio and video clips.

This course will also use CSS and Microsoft Expressions. Students will create web pages using both HTML and WYSIWYG languages. **(10201A001)**

Prerequisite: Word Processing I & Computer Concepts/Apps. I

WEB DESIGN II**Grade 10-12**

Web Page and Interactive Media Development II is a skill-level course for students who have completed Web Page and Interactive Media Development I. Instruction will include using multimedia authoring applications and programming tools such as JavaScript to create a web site that combines text, hyperlinks, images, video, and sound. Instruction will include using hardware and software to capture, edit, create, and compress audio and video clips as well as create animated text, graphics, and images. Other topics will include using tables to align images with text, creating newspaper -style columns, and inserting side menus and call-outs. Students will learn how to use templates, cascading style sheets and interactive elements to enhance web pages. Students will learn to create dynamic forms that include multiple-choice questions, comment boxes, and buttons. Students will learn how to

connect to a database and retrieve and write data. Students are encouraged to develop a portfolio project that demonstrates their expertise in areas such as multimedia authoring, web development, audio and video editing, and advanced JavaScript applications to create interactive web pages. Students will work on the school website second semester along with completing Web projects. **(10201A002)**

Prerequisite: Word Processing I, Computer Concepts/Apps. I & Web Design I

WORD PROCESSING I

Grade 9-12

Information Processing I is a skill-level course that includes the concepts and terminology related to the people, equipment, and procedures of information processing as well as skill development in the use of information processing equipment. Students will operate computer equipment to prepare memos, letters, reports, and forms. Students will create rough drafts, correct copy, process incoming and outgoing telephone calls and mail, and transmit and receive messages electronically. Students will create, input, and update databases and spreadsheets. Students will create data directories; copy, rename, move, and delete files, and perform backup procedures. In addition, students will prepare files to merge, as well as create mailing labels and envelopes from merge files. Students will learn to locate and retrieve information from hard copy and electronic sources, and prepare masters for a presentations using presentation software. Students will apply proper grammar, punctuation, spelling and proofreading practices. Accuracy will be emphasized. Workplace skills as well as communication skills (thinking, listening, composing, revising, editing, and speaking) will be taught and integrated throughout this course. Students will use at least two different word processing programs (Word Perfect 6.1 and Word 7.0). This course may be taken for college credit through LCCC (OTEC 111 - 1 credit). **(10005A001)**

WORD PROCESSING II

Grade 10-12

Information Processing II is a skill-level course for students who have completed Information Processing I. Students will create and update documents using word processing and desktop publishing programs and put together slideshows, speaker notes and handouts using presentation software. Students will revise data in a stored database and use queries to create customized reports. Students will edit and utilize calculation functions in spreadsheets, integrate graphics, spreadsheets, tables, text and data into documents and reports, and create graphs and charts from spreadsheets. Students will learn to conduct research on the internet and/or intranet, prepare and answer routine correspondence, organize and maintain a filing system, maintain an appointment calendar, make travel arrangements, prepare itineraries and expense reports, and prepare and process timesheets. In addition, students will maintain inventory, order equipment and supplies, and perform routine equipment maintenance. Students will apply proper grammar, punctuation, spelling and proofreading practices to documents and reports. Accuracy will be emphasized. Workplace skills as well as communication skills will be taught and integrated throughout this course. A simulated information processing center or work based learning experience may be used to provide students with the experience of working in the environment of an information processing center. This course may be taken for college credit through LCCC (OTEC 145 - 3 credits). **(10005A002)**

Prerequisite: Word Processing I

AP COMPUTER SCIENCE PRINCIPLES

Grade 10-12

This course provides an introduction to basic principles of computer science (CS), including programming in App Inventor, a graphical programming language for Android mobile devices. This is a projects-based course. Students will learn CS principles by building socially useful mobile apps and reflecting on the impacts of their work. This course involves a strong writing component. Students will maintain a portfolio of their work, which will include several performance tasks in the areas of programming, data analysis, and the impact of computing technology. Note: This is an AP level course and will be offered every other year. **Pre-requisites: C or better in Computer Concepts (10161A000)**

INTERRELATED COOPERATIVE PROGRAM

COOPERATIVE WORK

Grade 11-12

Cooperative Education is a capstone course designed to assist students in the development of effective skills and attitudes through practical, advanced instruction in school and on the job through cooperative education. Students are released from school for their paid cooperative education work experience and participate in 200 minutes per week of related classroom instruction. Classroom instruction focuses on providing students with job survival skills and career exploration skills related to the job and improving students' abilities to interact positively with others. For skills related to the job, refer to the skill development course sequences, the task list or related occupational skill standards of the desired occupational program .

The course content includes the following broad areas of emphasis: further career education opportunities, planning for the future, job-seeking skills, personal development, human relationships, legal protection and responsibilities, economics and the job, organizations, and job termination. A qualified career and technical education coordinator is responsible for supervision. Written training agreements and individual student training plans are developed and agreed upon by the employer, student and coordinator. The coordinator, student, and employer assume compliance with federal, state, and local laws and regulations.

This is the job portion of the program. Acceptance into this program is by application only. An application must be made to the Co-op Coordinator. The coordinator must design a training program that will take into consideration not only the employer(s) needs but also the special needs of the student, such as course requirements, previous education and training, student's specific schedule and time available, and the student(s) future training plans. This program has a limit of 20 junior and senior level students. **(22153A001) Student registration is with instructor approval only.**

INDUSTRIAL TECHNOLOGY

INTRODUCTION TO TECHNOLOGY I (SHOP)

Grade 9-10

This course focuses on the three dimensions of technological literacy: knowledge, ways of thinking and acting, and capabilities, with the goal of students developing the characteristics of technology literate citizens. The course employs teaching /learning strategies that enable students to build their own understanding of new ideas. It is designed to engage students in exploring and deepening their understanding of "big ideas" regarding technology and makes use of a variety of assessment instruments to reveal the extent of understanding in the following areas: engineering design, manufacturing technologies, construction technologies, energy & power, information & communication technologies. **(21052A001)**

DRAFTING

Grade 11-12

Drafting—General courses, usually offered as a sequence of courses, introduce students to the technical craft of drawing illustrations to represent and/or analyze design specifications and then refine the skills necessary for this craft. Drafting—General courses use exercises from a variety of applications to provide students with the knowledge and experience to develop the ability to perform freehand sketching, lettering, geometric construction, and multiview projections and to produce various types of drawings (working, detail, assembly, schematic, perspective, and so on). Computer-aided drafting (CAD) systems (if available) are typically introduced and used to fulfill course objectives. **(21102A001)**

Prerequisite: Successful completion of Introduction to Technology with C or better or instructor approval.

CAD (COMPUTER AIDED DRAFTING)

Grade 11-12

AutoCAD (computer aided drafting) will introduce students to the AutoCAD 2013 software. Students will learn, understand, and be able to use AutoCAD 2013 to complete mechanical and architectural drawings.. **(21107A000)**

Prerequisite: Successful completion of Drafting with C or better or instructor approval.

CONSTRUCTION I

Grade 10-12

This course provides experiences related to the erection, installation, and maintenance of residential buildings and related fixtures. Planned learning activities allow students to understand fundamental principles and methods, and develop technical skills related to masonry, carpentry, and finish work. Instruction includes safety principles and practices, recognition of standard lumber sizes, foundation layout methods, building concepts and procedures, local, state, and national codes, cost estimating, and blueprint reading. **(17001A001)**

Prerequisite: Introduction to Technology I with a 'C' or better

CONSTRUCTION II

Grade 10-12

This course provides learning experiences related to the erection, installation, maintenance, and repair of building structures and related utilities. Student technical skill experiences include instruction and activities in safety principles and practices, performing maintenance control functions, joining pipes, building water distribution lines and drains, installing and maintaining plumbing fixtures and systems, installing switch and outlet boxes, light fixtures, service entrances, roughing in and trimming out electrical devices and appliances, preparing foundations and footings, constructing residential chimneys and fireplaces, laying, jointing and pointing brick, and advanced building and construction methods and codes. All learning experiences are designed to allow the student to acquire job-entry skills and knowledge. **(17002A002)**

Prerequisite: Construction I with a 'C' or better.

CONSTRUCTION TRADES I

Grade 10-12

This course provides experiences related to the erection, installation, and maintenance of residential buildings and related fixtures. Planned learning activities allow students to understand fundamental principles and methods, and develop technical skills related to masonry, carpentry, and finish work. Instruction includes safety principles and practices, recognition of standard lumber sizes, foundation layout methods, building concepts and procedures, local, state, and national codes, cost estimating, and blueprint reading. **(17002A001)**

OTHER COURSES

DRIVER EDUCATION

Grade 10-12

Sophomores who have passed 8 courses over the previous two semesters of high school work may enroll in Driver Education. Freshmen will be allowed if there is sufficient space and must also have the necessary 8 passing courses over the previous two semesters. Students will be assigned by birth date and availability. The driver education course will consist of 30 classroom hours and 6 hours of behind-the-wheel training. **(08152A000)**

****To be enrolled in Driver Education, you must have the following items on file in the office: (1) a copy of your social security card, (2) a copy of your birth certificate, and (3) \$200 assessed by the school district.****

PHYSICAL EDUCATION

Grade 9-12

This course provides students with knowledge, experience, and an opportunity to develop skills in more than one of the following sports or activities: team sports, individual/dual sports, recreational sports, and fitness/conditioning activities. **(08001A000)**

YEARBOOK**Grade 11-12**

Early in the semester this course will focus on advertising. Students will learn the criteria, procedure and importance of effective advertising. They will conduct advertising sales within the community to help offset the annual yearbook production costs. The course will continue with students applying practical writing and artistic techniques to further develop skills in publication development, design and layout. Some content will focus on basic photographic skills and photographic design. Reporting skills including information gathering, interviewing and polling will also be practiced throughout the semester. Heavy emphasis will be placed on proofreading, revision and other editing skills. The above listed skills will be applied to the creation of the school annual yearbook.

(11104A000)**Prerequisite: Successful completion of English I and English II****HEALTH I****Grade 10-12**

This is a one-semester course designed to provide students with a general understanding of good physical, mental and social health, its importance and ways of maintaining it. A general understanding of various health problems and their prevention and treatment is covered. This course will also provide a general understanding of how to properly administer CPR and AED use as per Illinois law (Public Act 098-0632). **(08051A000)**

This course is required for graduation and recommended for sophomores.**RESOURCE**

This class is by assignment only and is established to help students who have learning disabilities. Study may be assigned on an hourly basis or student may be moved from a class for a temporary time to help overcome specific problems. This program is a part of the South Macoupin County Special Education Cooperative. Assignment is made only after the student has been referred and tested. **(22005A000)**

CREATING ENTREPRENEURIAL ORGANIZATIONS (CEO)**Grade 12**

CEO is a year-long course designed to utilize partnerships that provide an overview of business development and processes. Our local business community partners with area schools to create project-based experiences for students by providing funding, expertise, meeting space, business tours and one-on-one mentoring. Students visit area businesses, learn from guest speakers, participate in a class business, write business plans, and start and operate their own businesses. Business concepts learned through the experiential CEO class are critical; the 21st century skills of problem solving, team work, self motivation, responsibility, higher order thinking, communication and inquiry are at the heart of a student's development throughout the course.

This is a 2 credit course. **(12053A001)**

CAREER AWARENESS**Grade 11-12**

This course is designed to help students learn about the career selection process. It is also designed to teach them how to get a job by actually going through the various steps of the job search: interviewing for information, writing letters of inquiry and application, filling out the application form, constructing a resume packet, and going on a personal interview. It also exposes them to an array of occupations. This course may be taken for college credit through LCCC (CDEV130-3 credits). **(22151A000)**

Recommended for Juniors or Seniors