



Cedar Hill High School

Course Descriptions

2015-2016

Table of Contents

Click the CH logo to return to Table of Contents at any time

Language Arts.....	3
Social Studies.....	7
Science.....	12
Languages Other Than English.....	14
Physical Education/Health.....	16
Fine Arts.....	17
Career and Technical Education.....	21
Miscellaneous Electives.....	32



Language Arts

Advanced Journalism (2)

Prerequisite: Journalism I and/or Teacher Recommendation

Students enrolled in this course learn all the skills required to develop a school yearbook. Students learn advanced publishing skills, interviewing techniques, design and layout expertise, and sophisticated writing skills. They become adept at using complex software that is used in the professional publishing industry. In addition, they learn how to work as leaders and as a team as they manage this production process.

Debate (1)

Prerequisite: None

Speech and Debate aims to develop students' skills and confidence in the areas of public speaking, research, debate, and creative performance through exposure to the competitive events of California Speech and Debate. The course will cover logic and argumentation as well as the fundamentals of effective public speaking: preparation, pace, tone, facial and vocal expressiveness, and anxiety management. **This course is highly recommended for students who wish to compete with the UIL Speech and Debate team.** Students in this class will be prepared for successful competition in local, state-wide, and even national competition. Though students in the class may choose not to compete, they will still participate in in-class debates, performances, and all other activities required of students preparing for competition.

Debate II (1)

Prerequisite: Debate

Speech and Debate aims to develop students' skills and confidence in the areas of public speaking, research, debate, and creative performance through exposure to the competitive events of California Speech and Debate. The course will cover logic and argumentation as well as the fundamentals of effective public speaking: preparation, pace, tone, facial and vocal expressiveness, and anxiety management. **This course is highly recommended for students who wish to compete with the UIL Speech and Debate team.** Students in this class will be prepared for successful competition in local, state-wide, and even national competition. Though students in the class may choose not to compete, they will still participate in in-class debates, performances, and all other activities required of students preparing for competition.

Debate III (1)

Prerequisite: Debate II

Speech and Debate aims to develop students' skills and confidence in the areas of public speaking, research, debate, and creative performance through exposure to the competitive events of California Speech and Debate. The course will cover logic and argumentation as well as the fundamentals of effective public speaking: preparation, pace, tone, facial and vocal expressiveness, and anxiety management. **This course is highly recommended for students who wish to compete with the UIL Speech and Debate team.** Students in this class will be prepared for successful competition in local, state-wide, and even national competition. Though students in the class may choose not to compete, they will still participate in in-class debates, performances, and all other activities required of students preparing for competition.

Debate IV Honors (1)

Prerequisite: Debate III

Speech and Debate aims to develop students' skills and confidence in the areas of public speaking, research, debate, and creative performance through exposure to the competitive events of California Speech and Debate. The course will cover logic and argumentation as well as the fundamentals of effective public speaking: preparation, pace, tone, facial and vocal expressiveness, and anxiety management. **This course is highly recommended for students who wish to compete with the UIL Speech and Debate team.** Students in this class will be prepared for successful competition in local, state-wide, and even national competition. Though students in the class may choose not to compete, they will still participate in in-class debates, performances, and all other activities required of students preparing for competition.



Language Arts

English I (1)

Prerequisite: None

Through a survey of various types of world literature, the student will learn to analyze selected writings through both oral and written methods. The course also focuses on the attainment of grammar and vocabulary skills and places emphasis on literary and expository writing which combines analytical thinking skills and the basics of grammar. (English I SOL may be substituted for this class on all graduation plans only for immigrant students with limited English proficiency.)

End of Course (EOC) tested.

English II (1)

Prerequisite: English I

This comprehensive course covers world literature according to literary types--fiction, nonfiction, poetry, drama, integrates literature, composition, and grammar, stresses vocabulary mechanics and usage, and focuses on selected expository and persuasive writings. (English II SOL may be substituted for this class on all graduation plans only for immigrant students with limited English proficiency.)

End of Course (EOC) tested.

English III/ English III Honors (1)

Prerequisite: English II

This course, a chronological survey of American literature, integrates literature, composition, grammar, and vocabulary through representative readings from historical documents, essays, dramas, short stories and novels of significant American writers. Research skills and literature analysis are stressed. There is a focus on persuasive writing.

English III Advanced Placement (1)

Prerequisite: English II (Passing Score on State Examination)

This course, which focuses on rhetoric, challenges advanced students to complete college preparatory work by integrating units according to chronology, genre, and theme in American Literature and by utilizing those writing skills necessary to respond to literary and nonfiction works extemporaneously. The necessary components of grammar, persuasion, and argumentation needed for success in college are reviewed. Application of abstract and analytical thinking skills, advanced vocabulary, and research skills are stressed. After completing this course, students are encouraged to take the Advanced Placement English Language and Composition exam.

English IV (1)

Prerequisite: English III

This course, a survey of British literature, integrates writing and language concepts and skills and literature and reading concepts and skills. This course includes intensive writing instruction, which focuses on informative and analytical writing. The course provides the critical thinking, reading, and writing skills necessary for college entrance.

English IV Advanced Placement (1)

Prerequisite: English III (Passing Score on State Examination)

This advanced, college-level course is a chronological study of world and European literature presented from college level texts. Through analytical, oral, and written examinations of poetry, essays, short stories, drama, and the novel, the student explores the nature of society. After completing this course, students are encouraged to take the Advanced Placement English Literature and Composition exam given by the College Board.

English 1301 (.5) Dual Credit

Prerequisite: English IV (Passing Score on State Examination and TSI)

Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis.



Language Arts

English 1302 (.5) Dual Credit

Prerequisite: English 1301(Passing Score on State Examination and TSI)

Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions.

English 2327 (.5) Dual Credit

Prerequisite: English 1302(Passing Score on State Examination and TSI)

A survey of American literature from the period of exploration and settlement through the Civil War. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character.

English 2328 (.5) Dual Credit

Prerequisite: English 2327(Passing Score on State Examination and TSI)

A survey of American literature from the Civil War to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character.

English SOL I (for Speakers of Other Languages) (1)

Prerequisite: None

This course introduces students to basic structures and vocabulary of the English language through the skills of reading, writing, speaking, and listening. Students learn strategies in order to advance their reading, listening, and pronunciation skills. They expand oral comprehensibility and write complete sentences, a standard paragraph, and short content-based essays. They utilize level-appropriate conventions of grammar and punctuation with a minimum of errors.

English SOL II (for Speakers of Other Languages) (1)

Prerequisite: ESOL I

This course is an extension of the skills learned previously as a Basic User. It focuses on syntax, continued vocabulary development, reading, listening comprehension, speaking and pronunciation skills, and writing multiple-paragraph compositions that demonstrate organization of ideas, use of a thesis statement, and supportive elements. Intensive grammar instruction that supports academic writing skills is emphasized. This course contributes to skills needed in mainstream classes and universities.

English SOL III (for Speakers of Other Languages) (1)

Prerequisite: ESOL II

In this course, advanced English language learners discover how to use and extend their vocabulary, grammar, and communication skills more consciously and effectively for academic purposes. This course is similar to a mainstream English course in that students analyze classic literature and write multi-draft essays of various forms. Students participate in whole-class and small-group academic discussions.

Journalism (1)

Prerequisite: None

This full-year course, an introduction to all forms of mass media, emphasizes the type of writing necessary for publishing a school newspaper. The class trains the student in advertising and business management of a publication, helps the student to evaluate news happenings, develops the student's awareness of his responsibility in learning to meet deadlines, and introduces desktop publishing using Macintosh computers. Students also learn public relations skills. The class publishes a newspaper in the spring.



Language Arts

Professional Communications (.5)

Prerequisite: None

Professional Communications blends written, oral, and graphic communication in a career based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research.

Reading (1)

Prerequisite: English I

Reading I offers students instruction in fluency, word study, vocabulary, and comprehension strategies. The curriculum emphasizes the six critical reading processes that are part of the state secondary reading curriculum. Students are given opportunities to locate information in varied sources, to read critically, to evaluate sources, and to draw supportable conclusions. Students learn how various texts are organized, and how authors choose language for effects. All of these strategies are applied, using reading material from all subject areas.



Social Studies

Sociology (1)

Prerequisite: None

Sociology is designed for students who are interested in enhancing their understanding of themselves and the society in which they live. The course deals with typical situations which people meet in their daily lives. Institutions, which are found in all societies, are studied, and emphasis is placed on the relationships people have within them. Study is also made of societal problems, including such topics as growing up, divorce, current events, etc.

United States Government (.5)

Prerequisite: United States History and World History

The primary objective of this required one-semester course is to prepare the student for decision-making within the framework of the American political system. The course begins with an overview of basic concepts found in all political systems, the philosophical background which led to our constitutional development, and the basic concepts found in the Constitution. The executive, legislative, and judicial branches of the federal government, including current issues of interest such as foreign affairs, will be studied. In addition, students study the fields of civil rights and liberties, political parties and suffrage, the Texas Constitution, and state and local government.

United States History (1)

Prerequisite: World History

This course is a required one-year study of the United States from 1877 to the present. The time span of the course is divided into units such as the Progressives, Civil Rights, and the Cold War. Within each unit events are looked at from several perspectives such as geographic, political, economic, social, and international influences. Emphasis is placed on relating the effects of past events to the present. The course is enriched with various activities which help students learn social studies skills as well as historical content.

World History (1)

Prerequisite: World Geography

The purpose of this required one-year course is to provide students with a chronological study of world history. The major emphasis of this course is on the study of significant people, events, and issues from the earliest times to the present. Students will examine historical points of reference, evaluate the causes and effects of economic imperialism, the historic origins of contemporary economic systems, trace the historical development of law, and analyze the impact of major religious and philosophical traditions. Students will analyze the connections between major developments in science and technology and the growth of industrial economies.

African American History (.5)

Prerequisite: None

This course addresses the continued struggle for political, educational, and economic equality by African Americans. Emphasis is placed on the contributions of African Americans in the development of an industrialized United States as well as their place in the historical record.

Economics (.5)

Prerequisite: World History and United States History

This one-semester required course deals with the way that individuals and societies, particularly our society, have chosen to use scarce resources for the production of alternative goods. Students will learn how these scarce resources are distributed among the various peoples and groups in society. The course emphasizes the economic principles upon which the free enterprise system is based. Students will study the role government plays in this system and compare the American economic system to other types of economic systems. Students will also receive practical information in the field of personal finance.



Social Studies

History 1301 (.5) –(Dual Credit)

Prerequisite: United States History and passing scores on state examination and TSI.

A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. United States History I includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/Reconstruction eras. Themes that may be addressed in United States History I include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government.

History 1302 (.5) –(Dual Credit)

Prerequisite: United States History, History 1301, passing scores on state examination and TSI.

A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present. United States History II examines industrialization, immigration, world wars, the Great Depression, Cold War and post-Cold War eras. Themes that may be addressed in United States History II include: American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy.

Psychology (1)

Prerequisite: None

This course will explore historical and contemporary theories and research about grief and death issues. The course will examine death and grief from psychological, sociological, biological and cultural perspectives. It will include topics such as the understanding of death across the lifespan, legal definitions of death, advance directives, religious and cultural death rituals, and grief trajectory research.

Advanced Placement Psychology (1)

Prerequisite: None

Surveys the major principles of psychology. Introduces the history of psychology, human development, personality, abnormal behavior, social psychology, feelings and emotions, research methodologies, experimental psychology, psychophysiology, learning and memory, altered states of awareness, sleep and dreams, and industrial and organizational psychology.

Advanced Placement United States History (1)

Prerequisite: World History

The United States Government Advanced Placement course is designed to provide students with an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. Students will also engage in an in-depth study of the various institutions, groups, beliefs and ideas that constitute the U.S. political system. Students are guided to use specific information critically to evaluate general propositions about government and politics, as well as to present basic data relevant to government and politics in sustained written arguments. This course of study is the equivalent of a college introductory course and is available to seniors interested in taking the Advanced Placement examination in U.S. Government.

Advanced Placement United States Government and Politics (.5)

Prerequisite: United States History and World History

The United States Government Advanced Placement course is designed to provide students with an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. Students will also engage in an in-depth study of the various institutions, groups, beliefs and ideas that constitute the U.S. political system. Students are guided to use specific information critically to evaluate general propositions about government and politics, as well as to present basic data relevant to government and politics in sustained written arguments. This course of study is the equivalent of a college introductory course and is available to seniors interested in taking the Advanced Placement examination in U.S. Government.



Social Studies

Advanced Placement World History (1)

Prerequisite: World Geography

The purpose of the Advanced Placement World History course is to develop greater understanding of world processes and contacts, in interaction with different types of human societies. Building on a short summary of cultural and institutional world history prior to 1000 C.E. (AD), the course focuses primarily on the last 1000 years of global experience. Using a chronological approach, the curriculum uses six major themes as unifying threads, helping students to put what is particular about each time period or society into a larger framework. Knowledge of major developments that illustrate or link the six thematic areas and of major civilizations in Asia, sub-Saharan Africa, Europe, and the Americas is expected. **This course may be substituted for World History Studies.**



Mathematics

Algebra I (1)

Prerequisite: Pre-Algebra

Algebra 1 is a first year course in the study of algebraic expressions, equations, inequalities, and functions. Some of the topics covered include simplifying expressions, real numbers, solving equations/inequalities, graphing equations/inequalities, writing linear equations/inequalities, absolute value equations/inequalities, systems of equations/inequalities, direct and inverse variation, exponents and exponential functions, polynomials, factoring, quadratic equations, rational expressions/equations, radicals, and connections to geometry.

Algebra II (1)

Prerequisite: Geometry or Algebra I

Algebra 2 is a math course in the study of algebraic expressions, equations, inequalities, and functions. This course complements and expands the mathematical content and concepts of Algebra 1 and Geometry. Some of the topics covered include complex numbers, exponents, radicals, matrices, systems of linear equations, functions (absolute value, exponential, logarithmic, quadratic, radical, polynomial, and rational) and their behavior, solving nonlinear equations, conic sections, combinatorics, probability, and sequences/series.

Algebra II (1) (Honors)

Prerequisite: Geometry or Algebra I

Algebra 2 is a math course in the study of algebraic expressions, equations, inequalities, and functions. This course complements and expands the mathematical content and concepts of Algebra 1 and Geometry. Some of the topics covered include complex numbers, exponents, radicals, matrices, systems of linear equations, functions (absolute value, exponential, logarithmic, quadratic, radical, polynomial, and rational) and their behavior, solving nonlinear equations, conic sections, combinatorics, probability, and sequences/series.

Geometry (1)

Prerequisite: Algebra I

Geometry is a course in logic, proof, and measurement. Students will develop their ability to construct formal, logical arguments and proofs in geometric settings and problems. Some of the topics covered include definitions, postulates, and theorems regarding angles, segments and lines, arcs, congruent triangles, similar triangles, special quadrilaterals, parallel lines, circles, coordinate geometry, area and volume formulas, transformations, constructions, and right triangle trigonometry.

Pre-Calculus (1)

Prerequisite: Geometry or Algebra II

This pre-calculus course consists of one academic year of work in advanced mathematics and a preparation for calculus. The course is intended for superior mathematics students who have completed three years of Regents level courses designed for college-bound students. Course topics are listed below. Graphing calculator technology will be emphasized to enhance and support the mathematics in all units of study. Students must be able to use a variety of techniques to solve problems: graphical, numerical, algebraic/analytic, and verbal. Students are to develop an appreciation of all these methods of representation, understand how they are connected in a given problem, and learn how to choose the most appropriate method(s) to solve a problem.

Quantitative Reasoning (1)

Prerequisite: Geometry or Algebra II

The goal of these courses is to teach students how to reason using the language and strategies of mathematics. Students analyze data, find connections among and between quantitative relationships, and communicate their findings using a variety of formats within different settings and to diverse audiences. By using a variety of strategies, students solve problems in a variety of real world contexts.



Mathematics

Advanced Placement Statistics (1)

Prerequisite: Pre-Calculus

AP Statistics is a college level mathematics course. The purpose of the Advanced Placement course in statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Four major themes are covered in the course:

- 1) Exploring data – observing patterns and departures from patterns
- 2) Planning a study – deciding what and how to measure
- 3) Anticipating patterns in advance – producing models using probability and simulation
- 4) Statistical inference – confirming models

While exploring these themes, some of the topics that will be covered include distributions of data, measures of center, standard deviation, linear regression, correlation, data collection, sampling, randomization, probability and discrete random variables, binomial distributions, Central Limit Theorem, confidence intervals, tests of significance using large samples, small samples, means, and proportions, and Chi-square test.

Calculus AB (1)

Prerequisite: Pre-Calculus

High School Calculus is a first year calculus course. Some of the topics covered include limits, continuity, derivatives, applications of derivatives (related rates, curve-sketching, optimization), integrals, applications of integrals (volumes, accumulation of change, differential equations), and techniques of integration.

Advanced Placement Calculus BC (1)

Prerequisite: Calculus AB

Calculus BC includes all of the Calculus AB topics as well as applications using parametric, polar and vector forms, the geometric interpretation and numerical solution of differential equations, improper integrals, series, and Taylor polynomial approximations of functions.

College Algebra (Math 1314) (Dual Credit) (.5)

Prerequisite: Pre-Calculus, passing scores on state examination and TSI

This course is a functional approach to algebra that incorporates the use of appropriate technology. Emphasis will be placed on the study of functions, and their graphs, inequalities, and linear, quadratic, piece-wise defined, rational, polynomial, exponential, and logarithmic functions. Appropriate applications will be included.

College Trigonometry (Math 1316) (Dual) (.5)

Prerequisite: College Algebra, passing scores on state examination and TSI

In depth study and applications of trigonometry including definitions, identities, inverse functions, solutions of equations, graphing, and solving triangles. Additional topics such as vectors, polar coordinates, and parametric equations may be included.



Science

Integrated Physics and Chemistry (1)

Prerequisite: None

I P & C is a lab-oriented course that introduces basic concepts of physics and chemistry. The two disciplines are integrated in the topics of motion, waves, energy transformation, properties of matter, changes in matter, and solution chemistry. This course serves as a background for subsequent courses in chemistry and physics.

Biology (1)

Prerequisite: Middle School Science

Biology is the study of the living world, including microscopic organisms, fungi, plants, and animals. In Biology I it is important to attempt to understand life and life processes. This biology course, therefore, is aimed at introducing principles and concepts that apply to life at all levels of organization, no matter how simple or complex they may be. Our study begins by examining those general characteristics that are shared by all living things. These include similarities in chemical makeup, energy usage, ability to reproduce and community involvement.

Chemistry (1)

Prerequisite: Biology

In Chemistry, students conduct laboratory and field investigations, use of scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include characteristics of matter, use of Periodic Table, development of atomic theory and chemical bonding, chemical stoichiometry, gas laws, solution chemistry, thermochemistry, and nuclear chemistry. Students will investigate how chemistry is an integral part of our daily lives.

Chemistry (1) (Honors)

Prerequisite: Biology

In Chemistry, students conduct laboratory and field investigations, use of scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include characteristics of matter, use of Periodic Table, development of atomic theory and chemical bonding, chemical stoichiometry, gas laws, solution chemistry, thermochemistry, and nuclear chemistry. Students will investigate how chemistry is an integral part of our daily lives. Students are also expected write term papers and participate in competitions.

Physics (1)

Prerequisite: Chemistry

In Physics, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: laws of motion; changes within physical systems and conversion of energy and momentum; forces; thermodynamics; characteristics and behavior of waves; and atomic, nuclear, and quantum physics. Students who successfully complete Physics will acquire factual knowledge within a conceptual framework, practice experimental design and interpretation, work collaboratively with colleagues, and develop critical thinking skills.

Advanced Placement Environmental Science (1)

Prerequisite: Biology and Chemistry

The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study. Yet there are several major unifying constructs, or themes, that cut across the many topics included in the study of environmental science.



Science

Anatomy Physiology (1)

Prerequisite: Three Credits of Science

To receive credit in science, students must meet the 40% laboratory and fieldwork requirement identified in §74.3(b)(2)(C) of this title (relating to Description of a Required Secondary Curriculum). In Anatomy and Physiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

Anatomy Physiology (Honors) (1)

Prerequisite: Three Credits of Science

To receive credit in science, students must meet the 40% laboratory and fieldwork requirement identified in §74.3(b)(2)(C) of this title (relating to Description of a Required Secondary Curriculum). In Anatomy and Physiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

Biology 1406 (Dual Credit) (.5)

Prerequisite: Passing score on state examination, TSI and administrator recommendation.

An introductory survey of contemporary biology for students majoring in the sciences. Topics emphasized will include the chemical basis of life, structure and function of cells, energy transformations, and molecular biology and genetics.

Biology 1407 (Dual Credit) (.5)

Prerequisite: Passing score on state examination, TSI and administrator recommendation and 1406.

An introductory survey of current biological concepts for students majoring in the sciences. Emphasis will be placed on topics which include evolution, biological diversity, ecology, and comparative structure and function of organisms.



Languages Other Than English

French I (1)

Prerequisite: None

This course introduces the students to basic vocabulary and fundamental sentence structures in the present and past. Pronunciation, grammar, and everyday vocabulary are stressed as indispensable tools for comprehension and expression. French customs, culture, and everyday life are also highlighted.

French II (1)

Prerequisite: French I

This course completes the basics of the language and includes simplified readings highlighting French customs, culture, and everyday life.

French III (1)

Prerequisite: French II

This course reviews French grammar emphasizing idiomatic construction and expressions. Oral discussion and conversation are based on selected readings from contemporary French literature.

French III (1) (Honors)

Prerequisite: French II

This course continues the review of functional French grammar with emphasis upon idiomatic construction and expressions. Oral discussion and conversation are based on selected readings from contemporary French literature.

Spanish 1 (1)

Prerequisite: None

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

Spanish 2 (1)

Prerequisite: Spanish 1

Spanish 2 builds on the foundation of Spanish 1. Students learn to communicate in everyday situations, such as in schools, restaurants, stores, hotels, doctor's offices, banks, airports, and at sporting events. They learn key grammatical principles including reflexive verbs, direct and indirect object pronouns, and preterit and imperfect tenses.

Spanish 2 (Honors) (1)

Prerequisite: Spanish 1

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

Spanish 3 (Honors) (1)

Prerequisite: Spanish 2

This course builds upon knowledge gained in Spanish 1 & 2. The course is a continuation and recycling of knowledge acquired in Spanish 1 and Spanish 2, as well as an introduction to new vocabulary, structures and expressions. Students will be expected to expand their vocabulary range to include more sophisticated terms, use advanced language expressions, verb tenses and grammatical concepts such as the pluperfect and the subjunctive mood. Students will view Spanish language films and read selected Spanish literature.



Languages Other Than English

Spanish 3 -1311 (Dual Credit) (.5)

Prerequisite: Spanish 2 and passing score on TSI.

This is the first semester of academic transfer Spanish. It is an introductory course intended for students with little or no knowledge of the language. Its aim is to present essential vocabulary and grammar, and to develop the pronunciation, listening, reading, and writing skills necessary for basic communication and comprehension. Customs and cultural insights are also presented.

Spanish 3 -1312 (Dual Credit) (.5)

Prerequisite: Spanish 2 and passing score on TSI.

This is the second semester of academic transfer Spanish. It continues the oral practice, reading, writing, grammar and cultural studies begun in SPAN 1311. Students are expected to acquire a substantial amount of vocabulary and begin to deal with idiomatic language and more advanced syntax.

Spanish 4 (Honors) (.5)

Prerequisite: Spanish 3

Spanish IV aims at developing and improving student's oral and written communication through the continued study of the language, literature and culture of Spain, Latin America and Hispanic communities in the United States. It also seeks to improve students' ability to read and appreciate literary and non-literary texts in Spanish, deepening this way students' awareness and understanding of the cultural diversity of the Spanish-speaking world. The course is organized by themes based on contemporary social, political and cultural issues of Spanish-speaking societies such as: cultural identity, the changing roles of women and family, economic development and its effects on cultural heritage and environment.



Physical Education/Health

Athletics (.5-4) Baseball I-IV, Basketball I-IV, Cross Country I-IV, Football I-IV, Golf I-V, Powerlifting I-IV, Soccer I-IV, Softball I-IV, Swimming I-IV, Tennis I-IV, Track I-IV, Volleyball I-IV)

Prerequisite: *Administrator Recommendation and Sequence Order*

Athletics is offered each year of high school and includes choices from twenty different sports for both men and women. A student enrolled in Athletics may earn a maximum of four credits toward graduation. Athletics is an instructional model designed to provide athletes with an authentic, in-depth sport experience. It is intended to move isolated skill practice into sequential, progressive, and realistic game situations with the primary objective of developing highly competitive team members. Taking responsibility for personal and social behavior, and respecting differences among people in sport settings are all inherent within the team model. Athletes are actively engaged in the sport of choice, working on skills for game play situations under the direction of their head coach. Students are placed in athletics as the result of student performance criteria conducted in pre-season tryout sessions and ultimate recommendation from the head coach. Students elected to participate must maintain academic eligibility as mandated by the University Interscholastic League.

Foundations of Personal Fitness (.5-1)

Prerequisite: *None*

This course enables students to incorporate health and physical behaviors into their lifestyles. Emphasis will be on giving students knowledge and skills in the following areas: components of physical fitness, consumer issues, biomechanical and physiological principles, safety practices, lifestyle assessment, assessment of individual fitness levels, and design of a personal fitness program.

Outdoor Adventure (.5-1)

Prerequisite: *None*

Students enrolled in adventure outdoor education are expected to develop competency in outdoor education activities that provide opportunities for enjoyment and challenge. Emphasis is placed upon student selection of activities that also promote a respect for the environment and that can be enjoyed for a lifetime. Knowledge and skills will be gained through activities such as: camping, backpacking, canoeing, orienteering, basic first aid and CPR, casting and angling, participating in the challenge course and developing creative thinking with outdoor activities, and correlating nature and the environment with different subject areas.

Recreational Sports (1)

Prerequisite: *None*

Instruction and skill development are offered in a variety of individual, dual and leisure sports. This instruction is planned to meet the needs of the individual students. The emphasis will be for students to develop and demonstrate physical skills, stamina, and an interest in physical activity and overall wellness. This curriculum framework will allow every student to become a physically-educated person.

ROTC I, II, III, IV (1)

Prerequisite: *Class Sequence*

The course of study includes military science classes, which develop leadership, confidence, maturity, responsibility and dependability.



Fine Arts

Advanced Placement Art History (1)

Prerequisite: Supplies Required, 11th and 12th only

Students will explore and examine the concepts of creativity, originality, self-expression, style, and aesthetics. Students will identify art elements and design principles, applying them to the studies of ancient and modern civilizations. Preparation for the College Board examination is integrated throughout the course for the AP candidates.

Applied Voice and Movement I-II (.5)

Administrator Recommendation, Class Sequence and Auditions

Study of processes of vocal and physical performance, and recognition of controllable elements in speech and the body. Drill work for improvement of flexibility, strength, physical and vocal expression, pronunciation, and articulation.

Art I Drawing/Painting (1)

Prerequisite: A course fee may be required

Art I Drawing and Painting is a foundation course that uses primarily drawing and painting materials to teach the elements and principles of design. A variety of problems and other media are also incorporated as well as history and criticism. Students will develop a portfolio that shows their skill in media and problem-solving.

Art II (1) Drawing/Painting

Prerequisite: A course fee may be required, Art I

This second-year art course provides students who have successfully completed an Art I course an opportunity to further develop their drawing and painting skills through the use of advanced concepts and processes. Development of a portfolio is required.

Art III (1) Drawing/Painting

Prerequisite: A course fee may be required, Art II

This third-year course provides an in-depth study of the concepts, techniques, and self-expression of drawing and painting on an advanced level. Completion of a cohesive portfolio is required.

Art IV (1) Drawing/Painting

Prerequisite: A course fee may be required, Art III

This fourth-year course provides an in-depth study of the concepts, techniques, and self-expression of drawing and painting on an advanced level. Completion of a cohesive portfolio is required.

Art I (1) Sculpture/Ceramics

Prerequisite: A course fee may be required

Art I Sculpture is a foundation course that uses primarily three-dimensional materials to teach the elements and principles of design. A variety of problems and other media are also incorporated as well as history and criticism. Students will develop a portfolio that shows their skill in media and problem-solving.

Art II (1) Sculpture/Ceramics

Prerequisite: A course fee may be required, Art I

This second-year art course provides students who have successfully completed an Art I course an opportunity to further develop their three-dimensional skills through the use of advanced concepts and processing in clay and a variety of other media. Development of a portfolio is required.

Art III (1) Sculpture/Ceramics

Prerequisite: A course fee may be required, Art II

This third-year course provides an in-depth study of the concepts, techniques, and self-expression of 3D artwork on an advanced level. Completion of a cohesive portfolio is required.



Fine Arts

Art IV (1) Sculpture/Ceramics

Prerequisite: A course fee may be required, Art IV

This fourth-year course provides an in-depth study of the concepts, techniques, and self-expression of 3D artwork on an advanced level. Completion of a cohesive portfolio is required.

Art 2D Design (1)

Prerequisite: A course fee may be required and Level II course

The Two-Dimensional Design portfolio is intended to address a very broad interpretation of two-dimensional design issues. This type of design involves purposeful decision-making about how to use the elements and principles of art in an integrative way. For this portfolio, students are asked to demonstrate proficiency in two-dimensional design using a variety of art forms. These could include, but are not limited to, photography, mixed media, digital art and media, painting, and printmaking. The portfolio is submitted as both original pieces and as digital images of selected pieces that represent the student's best works and includes a written statement defining the student's focus of concentration.

Art 3D Design (1)

Prerequisite: A course fee may be required and Level II course

The 3D Design portfolio course is intended to address a very broad interpretation of sculptural issues in depth and space. Such elements and concepts can be articulated through additive, subtractive, and/or fabrication processes. A variety of approaches might include jewelry, traditional sculpture, architectural models, apparel, ceramics, fiber arts, or metal works. The portfolio is submitted as digital images of selected pieces that represent the student's best works and includes a written statement defining the student's focus of concentration.

Art Studio I-IV (1)

Prerequisite: A course fee may be required, Sequence must be followed

The experiences given and skills developed in the first three levels of art courses prepare students for in-depth study of special problems based on their previous credits. They will produce a body of artwork in their chosen area of art (drawing, painting, sculpture, ceramics, electronic media, photography, printmaking) and develop evaluative criteria for selecting artworks to include in a portfolio. Preparation of a portfolio is required.

Band (Concert, Symphonic, Jazz, Wind) (.5-4)

Prerequisite: Administrator Recommendation, Class Sequence and Auditions

The high school band program provides four to five levels of band classes during the school day. Instructional priorities include instrumental technique, musicianship, critical listening, cultural growth, basic music theory, creative self-expression, rehearsal and concert etiquette, self-discipline, responsible citizenship, effective communication, problem solving, and production of quality products. Band students receive instruction on both marching and concert fundamentals. During marching season, students learn marching fundamentals, marching chart reading, how to play and march simultaneously, spatial awareness, kinesthetic awareness and movement memory. A variety of musical styles are performed. Physical conditioning is also emphasized. Students should be in good physical condition to participate. Concert season is ongoing and provides students an opportunity to continue musical growth and experience music literature. Individual, small, and large ensemble concepts and skills are emphasized. Three or more levels of performing bands are offered at each school. Students are placed in each level by specific performance criteria including an audition. Performances during the concert season include 3-5 concerts and 3-5 festival performances. Students may also participate in a series of auditions related to the all state process as well as solo and ensemble contests. Attendance at after school, section rehearsals is required.



Fine Arts

Choir I-IV (.5) (Cantare, Acapella, Forte)

Prerequisite: Administrator Recommendation, Class Sequence and Auditions

This course is designed to develop and refine music reading skills and to encourage artistic expression through choral singing. Rehearsals focus on choral techniques through proper vocal production. Theory and sight-reading techniques are also emphasized with continued development of the knowledge and skills in musicianship and performance. Students will sing literature from the Renaissance to popular and show choir music. This enables the students to gain an appreciation for different vocal styles, composers, form, periods, and cultures. Choir classes are ability-based and placement is determined by various performance criteria developed by the choral staff and may include an audition. A student with no prior experience may enroll in the program and will be placed in the appropriate group by the director. Attendance at after-school rehearsals and performances is a requirement for the performing choirs. Students will participate in three to four concerts per year, solo and ensemble contest, UIL concert and sight-reading contest, and a music festival.

Color Guard (1)

Prerequisite: Auditions, Administrative Recommendation

The color guard class offers instruction for all beginning and intermediate level members of the Cedar Hill Color Guard. Instruction will include movement basics, equipment basics on flag and rifle, performance observation and analysis, and basic design and choreography.

Dance I-IV (1)

Prerequisite: Administrator Recommendation, Class Sequence and Auditions

Dance students will learn fundamental skills in these dance techniques: ballet, modern, jazz, tap, folk, character, and ethnic. In addition, course objectives will emphasize (1) creative expression through movement; (2) awareness of space, time, and energy in dance technique and improvisational studies; (3) development of self-confidence through the use of the body as an expressive instrument; and (4) appreciation of dance as an art form.

Dance II-IV (Drill Team) (1)

Prerequisite: Administrator Recommendation, Class Sequence and Auditions

Instructional priorities of the high school dance program include development of dance techniques learned in Dance I, creative expression, improvisation, and appreciation of dance as an art form. Qualities of movement are also explored. These include swinging, percussion, suspension, sustained, collapsing, and vibrancy. Kinesthetic awareness and movement memory is emphasized as well. Dance techniques explored may include ballet, modern, jazz, tap, folk, character, and ethnic. As students progress from Dance II to IV more advanced techniques and skills are acquired. Placement of students in Dance II-IV (Drill Team) is determined by various criteria including a tryout. Drill Team will meet the requirement of 1 PE credit for after school participation.

Music Theory Dual Credit (.5)

Prerequisite: Course Sequence, Passing score on TSI

The main objective of the Music Theory Course is for students to develop aural, sight singing, written, composition, and analytical skills in music. This course covers material typically taught at the college freshman level with emphasis placed on basic pitch and rhythmic notation or scale structures, pitch intervals, chord structure and movement, part writing, ear training, harmonization, and music composition.

Musical Theater I (1)

Prerequisite: Course Sequence, Audition

Students present songs and scenes in class and learn techniques for both speaking and singing in character. Musical theater history and legends of the Broadway stage are also discussed.



Fine Arts

Musical Theater II Dual Credit (.5)

Prerequisite: Course Sequence, Passing score on TSI

This performance-oriented class is for those interested in improving stage presence, singing skills, audition techniques and movement/dance skills. Students work on excerpts from standard musical theater repertoire.

Orchestra (.5-4)

Prerequisite: Administrator Recommendation, Class Sequence and Auditions

The high school orchestra program provides one to four levels of classes during the school day. Instructional priorities include instrument technique, musicianship, critical listening, cultural growth, basic music theory, creative self-expression, rehearsal and concert etiquette, self-discipline, responsible citizenship, effective communication, problem solving, and production of quality products. Orchestra students are given an opportunity to continue musical growth and experience quality music literature. Several large ensemble, small ensemble, and individual performance opportunities are provided for students in performing orchestras. Performances include 3-5 concerts and 3-5 festival performances. Students may also participate individually in a series of auditions related to the all-state process as well as solo and ensemble contests.

Technical Theater Arts I-IV (Honors) (1)

Prerequisite: Administrator Recommendation, Class Sequence and Auditions

These courses include further development and application of skills and basic theories of design in color, drawing, lighting, costuming, props, and interpretation in stage design.

Theater Arts I (1)

Prerequisite: Administrator Recommendation and Auditions

This is a course in the fundamentals of theatre production designed to acquaint the student with pantomime, improvisation, and the rudiments of acting, as well as the technical aspects of theatre such as sets, props, costumes, and makeup.

Theater Production I-IV (Honors) (1)

Prerequisite: Administrator Recommendation, Class Sequence and Auditions

The purpose of these courses is to continue to study the theatre in relation to the total theatrical process and to apply good acting techniques to actual productions. Topics and activities included will be design and construction of scenery including lighting, costume design, production of sound effects, and actual production of dramatic events.

Vocal Ensemble I- II (Dual Credit) (.5)

Prerequisite: Administrator Recommendation, Class Sequence, Auditions and passing scores on state examination and TSI

The Vocal Ensemble Curriculum provides a program of studies that prepares students to enter college, conservatory and career programs in vocal music performance. Studies are geared toward the acquisition of artistic and academic skills necessary for success in the real world of the professional artist.



Career and Technical Education

Accounting I (1)

Prerequisite: *Principles of Business Marketing, and Finance*

Accounting concepts and techniques essential to the administration of a business enterprise: analyzing and recording financial transactions; accounting valuation and allocation practices; preparation, analysis and interpretation of financial statements; international accounting issues.

Accounting II (1)

Prerequisite: *Accounting I*

Introduction to managerial accounting; product costing; budgetary control and responsibility accounting; analysis and techniques for aiding management planning and control decisions; basic income tax concepts for planning business transactions.

Advanced Audio Video Production (2)

Prerequisite: *Audio Video Production*

This advanced course provides job-specific instruction for careers in the film and television industries. The course integrates advanced video and audio techniques with the art of computer graphics and electronic instrumentation. The focus of the course is on the creation of visual and special effects and green screen studio production. Students will further their knowledge of cinema history and analysis with discussions and selected film examples screened during the year. Sample projects include: 1 minute films, commercials, short films, production packages, audio synch, movie trailers, etc.

Advanced Biotechnology (1)

Prerequisite: *Biotechnology*

Students enrolled in this course will apply advanced academic knowledge and skills to the emerging fields of biotechnology such as agricultural, medical, regulatory, and forensics and also have the opportunity to use sophisticated laboratory equipment, perform statistical analysis, and practice quality-control techniques. Students will conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Advanced Biotechnology study a variety of topics that include structures and functions of cells, nucleic acids, proteins, and genetics. Scientific inquiry, science and social ethics and scientific systems will also be covered. This course meets the requirements for the 4th science credit.

Advanced Computer Programing (1)

Prerequisite: *Computer Programing*

Students acquire knowledge of structured programming techniques and concepts appropriate to developing executable programs and creating appropriate documentation. Students will also analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as it relates to computer programming. Students should, by course's end, be able to apply technical skills to address business applications of emerging technologies as they relate to computer programming.

Advanced Graphic Design and Illustration (2)

Prerequisite: *Graphic Design*

A continuing examination of elements of design, spatial relation relationships, typography and imagery as they apply to practical visual solutions for print and Web applications. Students are introduced to operating procedures in the art department, design studio, and printing plant.



Career and Technical Education

Advanced Welding (2)

Prerequisite: Welding

Advanced Welding builds on knowledge and skills developed in Welding. Students will develop advanced welding concepts and skills as they relate to personal and career development. This course integrates academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

Audio Video Production (1)

Prerequisite: Principles of Arts, A/V Technology & Communications

This introductory course will teach students the basics of photography, camera functions, video editing, media analysis, and filmmaking. Students will work in groups to write, shoot, and edit their own projects. Sample student projects during the year include PSA's, commercials, short films, music video, and a 10 page screenplay in proper format. Selected films are screened during class throughout the year to enhance socratic seminars every six weeks.

Biotechnology (1)

Prerequisite: Concepts of Engineering and Technology

This course provides an overview of biotechnology, bioengineering, and related fields. Topics include genetics, cell structure, proteins, nucleic acids, and the impact of immunological events in biotechnology. Students further study the increasingly important agricultural, environmental, economic, and political roles of bioenergy and biological remediation; the roles of Nano-science and nanotechnology in biotechnology medical research; and future trends in biological science and biotechnology.

Business Information Management I (1)

Prerequisite: Principles of Business, Marketing, and Finance

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.

Business Information Management II (Honors) (1)

Prerequisite: Business Information Management I

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies, create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs, and make an electronic presentation using appropriate multimedia software.

Business Information Management II (Dual Credit) (1)

Prerequisite: Business Information Management I

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies, create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs, and make an electronic presentation using appropriate multimedia software.

Business Law (.5)

Prerequisite: Human Resource Management

Students analyze the social responsibility of business and industry regarding the significant issues relating to the legal environment, business ethics, torts, contracts, negotiable financial instruments, personal property, sales, warranties, business organizations, concept of agency and employment, and real property. Students apply technical skills to address business applications of contemporary legal issues. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.



Career and Technical Education

Computer Programing (.5)

Prerequisite: Principles of Information Technology

Students acquire knowledge of structured programming techniques and concepts appropriate to developing executable programs and creating appropriate documentation. Students will also analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as it relates to computer programming. Students should, by course's end, be able to apply technical skills to address business applications of emerging technologies as they relate to computer programming.

Computer Maintenance (1)

Prerequisite: Principles of Information Technology

Computer Maintenance provides students with knowledge and skills regarding the maintenance, upgrading, and configuration of PC hardware, components, and peripherals. Upon successful completion of this course, students are able to maintain, upgrade, and configure PC systems. Students receive both classroom instruction and hands-on laboratory experiences. A strong emphasis is placed on proper safety practices and industry ethics.

Concepts of Engineering and Technology (.5)

Prerequisite: None

Concepts of Engineering and Technology provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will use a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will have an understanding of the various fields and will be able to make informed decisions regarding a coherent sequence of subsequent courses. Further, students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course assignments.

Court Systems and Practices (1)

Prerequisite: Law Enforcement

Court Systems and Practices is an overview of the federal and state court systems. The course identifies the roles of judicial officers and the trial processes from pretrial to sentencing and examines the types and rules of evidence. Emphasis is placed on constitutional laws for criminal procedures such as search and seizure, stop and frisk, and interrogation.

Culinary Arts I (1)

Prerequisite: Restaurant Management

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification, a Texas culinary specialist certification, or any other appropriate industry certification. This course may be offered as a laboratory-based or internship course. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Culinary Arts II (1)

Prerequisite: Restaurant Management and Culinary Arts I

Culinary Arts II includes management and production skills and techniques. Students can pursue a national sanitation certification, a Texas culinary specialist certification, or any other appropriate industry certification. This course may be offered as a laboratory-based or internship course. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.



Career and Technical Education

Digital and Interactive Multimedia (.5)

Prerequisite: Principles of Information Technology

Students study digital and interactive media and its application in information technology and analyze/assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students use personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Knowledge and skills acquired and practiced enables students to successfully perform and interact in a technology-driven society. Students enhance reading, writing, computing, communication, and reasoning skills applied to the information technology environment.

Engineering Mathematics (1)

Prerequisite: Principles of Technology

Engineering Mathematics is a course where students solve and model robotic design problems. Students use a variety of mathematical methods and models to represent and analyze problems involving data acquisition, spatial applications, electrical measurement, manufacturing processes, materials engineering, mechanical drives, pneumatics, process control systems, quality control, and robotics with computer programming. This course meets the requirements for the 4th mathematics credit.

Entrepreneurship (.5)

Prerequisite: Principles of Business Marketing, and Finance

Students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students understand the capital required, the return on investment desired, and the potential for profit.

Food Science (1)

Prerequisite: Three Units of Science

To receive credit in science, students must meet the 40% laboratory and fieldwork requirement identified in §74.3(b)(2) (C) of this title (relating to Description of a Required Secondary Curriculum). In Food Science students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Food Science is the study of the nature of foods, the causes of deterioration, the principles underlying food processing, and the improvement of foods for the consuming public.

Forensic Science (1)

Prerequisite: Biology and Chemistry

To receive credit in science, students must meet the 40% laboratory and fieldwork requirement identified in §74.3(b) (2)(C) of this title (relating to Description of a Required Secondary Curriculum). Forensic Science is a course that uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis. Students will learn the history, legal aspects, and career options for forensic science.

Global Business (.5)

Prerequisite: Human Resource Management

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce and postsecondary education. Students apply technical skills to address global business applications of emerging technologies. Students develop a foundation in the economical, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment.



Career and Technical Education

Graphic Design and Illustration (1)

Prerequisite: Principles of Arts, A/V Technology & Communications

An introduction to elements of design, spatial relationships, typography and imagery as they apply to practical visual solutions for self-promotion, resumes, logo design, Web design, and sequential systems. This course instructs the student in graphic design skills employing traditional and digital tools, materials and procedures employed in the communication arts industry. The focus will be on finding creative visual solutions to communication problems using technical skills.

Health Science (1)

Prerequisite: None

In Health, students develop skills, including CPR, that will make them health-literate adults. Students gain a deeper understanding of the knowledge and behaviors they use to safeguard their health, particularly pertaining to health risks. Students are taught how to access accurate information that they can use to promote health for themselves and others. Students use problem-solving, research, goal-setting and communication skills to protect their health and that of the community. Specific topics in the abstinence-based sex education curriculum include decision-making concerning dating, love, relationships, and marriage and family. Other issues addressed are the problems of teen pregnancy and parenthood, sexually transmitted diseases, sexual harassment and abuse, rape prevention and the failure rate of contraceptive methods when used either to prevent pregnancy or disease. Parents will have an opportunity to attend a preview night of the curriculum. Also, take-home assignments will provide avenues for parent/student communication.

Human Growth Development (1)

Prerequisite: Principles of Education and Training

Human Growth and Development is an examination of human development across the lifespan with emphasis upon research, theoretical perspectives, and common physical, cognitive, emotional, and social developmental milestones. The course covers material that is generally taught in a postsecondary, one semester introductory course in developmental psychology or human development.

Human Resource Management (.5)

Prerequisite: Principles of Business, Marketing, and Finance

Students recognize, evaluate, and prepare for a rapidly evolving global business environment that requires flexibility and adaptability. Students analyze the primary functions of human resources management, which include recruitment, selection, training, development, and compensation. Topics will incorporate social responsibility of business and industry. Students develop a foundation in the economical, financial, technological, international, social, and ethical aspects of human resources in order to become competent managers, employees, and entrepreneurs. Students incorporate a broad base of knowledge that includes the legal, managerial, financial, ethical, and international dimensions of business to make appropriate human resources decisions.

Internetworking Technologies 1 (1)

Prerequisite: Principles of Information Technology

Describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks.

Internetworking Technologies 2 (1)

Prerequisite: Internetworking Technologies 1

Students will obtain the necessary skills to compete in the global economy. Students will learn hands-on technical skills to help them prepare for IT careers as well as post-secondary IT-related degrees. This course provides students with practical skills in networking. Students will use the skills learned in Internetworking Technologies I and participate in an internship with IBM.



Career and Technical Education

Instructional Practice in Education and Training (1)

Prerequisite: Human Growth Development

Instructional Practices in Education and Training is a field-based internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators or trainers in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.

Law Enforcement (1)

Prerequisite: Principles of Law, Public Safety, Corrections and Security

Law Enforcement I is an overview of the history, organization, and functions of local, state, and federal law enforcement. This course includes the role of constitutional law, the United States legal system, criminal law, law enforcement terminology, and the classification and elements of crime.

Manufacturing Engineering (2)

Prerequisite: Principles of Manufacturing

In Manufacturing Engineering, students gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. Knowledge and skills in the proper application of Manufacturing Engineering, the design of technology, the efficient production of technology, and the assessment of the effects of technology prepare students for success in the global economy. The study of Manufacturing Engineering allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting.

Marketing Dynamics (2)

Prerequisite: Entrepreneurship

Marketing is a series of dynamic activities that focus on the customer to generate a profitable exchange. Students gain knowledge and skills that help them to be proficient in one or more of the marketing functional areas associated with distribution, financing, marketing information management, pricing, product planning, promotion, purchasing, risk management, and selling skills. Students integrate skills from academic subjects, information technology, interpersonal communication, and management training to make responsible decisions. This course may include paid or unpaid career preparation experience.

Medical Terminology (.5)

Prerequisite: Health Science

This course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, combining forms, and singular and plural forms, plus medical abbreviations and acronyms. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

Pathophysiology (.5)

Prerequisite: Three Credits of Science

To receive credit in science, students must meet the 40% laboratory and fieldwork requirement identified in §74.3(b) (2)(C) of this title (relating to Description of a Required Secondary Curriculum). In Pathophysiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology.



Career and Technical Education

Practicum in Audio Video Production (2)

Prerequisite: Advanced Audio Video Production

The Practicum in Audio Video Production course is designed and structured to work as an open and largely self-directed lab course that allows students to expand and deepen the skills they learned in Advanced Audio Video Production. Practicum students are able to take on the leadership roles in all of the real production projects. Instructors work with students to create and develop individual learning plans focused on each student's individual artistic or technical passions and interests. Each student identifies personal academic goals for the semester, and specific projects, assignments, and courses of study are developed to achieve those academic goals.

Practicum in Business Management (2)

Prerequisite: Business Law, Global Business or Business Management

Practicum is designed to give students supervised practical application of previously studied knowledge and skills. Experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. Students develop a foundation in the economical, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.

Practicum in Culinary Arts (2)

Prerequisite: Culinary Arts II

This course is a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Culinary Arts integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace. Students are taught employability skills, which include job-specific skills applicable to their training plan, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Practicum in Culinary Arts is relevant and rigorous, supports student application of academic standards, and effectively prepares students for college and career success. Instruction may be delivered through school-based laboratory training or through work-based delivery arrangements such as cooperative education, mentoring, and job shadowing. Students are encouraged to participate in extended learning experience such as career and technical student organizations and other leadership or extracurricular organizations.

Practicum in Education and Training (2)

Prerequisite: Instructional Practice in Education and Training

Practicum in Education and Training is a field-based internship that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and complete other responsibilities of classroom teachers, trainers, paraprofessionals, or other educational personnel.

Practicum in Engineering (2)

Prerequisite: Manufacturing Engineering or Advanced Welding

This course will enable students to examine technology and engineering fundamentals related to solving real-world problems. To do so, students examine ethics and intellectual property and design a practicum project, a culmination of knowledge and skill they gained in the previous engineering courses. In addition, students continue to investigate a variety of engineering specialty fields and related careers to determine whether they are good candidates for postsecondary educational opportunities in engineering.



Career and Technical Education

Practicum in Graphic Design and Illustration (2)

Prerequisite: Advanced Graphic Design

Careers in graphic design and illustration span all aspects of the advertising and visual communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio Video Technology, and Communications career cluster, students will be expected to develop a technical understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

Practicum in Health Science (2)

Prerequisite: Medical Terminology

The practicum is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

Practicum in Law, Public Safety, Corrections and Security (2)

Prerequisite: Court Systems and Practices

The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Law, Public Safety, Corrections, and Security cluster. The Practicum is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

Practicum Marketing Dynamics (2)

Prerequisite: Marketing Dynamics

Through course required employment, students gain knowledge and skills that help them become proficient in one or more of the marketing functional areas. Students will illustrate appropriate management and research skills to create the marketing mix. This course covers technology, communication, and customer-service skills. The practicum is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. The practicum course is a paid or unpaid experience for students participating in a coherent sequence of career and technical education courses in marketing education.

Principles of Arts, A/V Technology & Communications (.5)

Prerequisite: None

Careers in the Arts, Audio Video Technology and Communications career cluster require, in addition to creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities. The goal of this course is to create a culture of high expectation and continuous improvement that provides students with a foundation for success in high school, future studies, and careers. Students explore college and career planning within specific career cluster(s). The students research labor market information, learn job-seeking skills, and create documents required for employment. Students use self-knowledge to explore and set realistic goals.

Principles of Business, Marketing, and Finance (.5)

Prerequisite: None

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing, and finance.



Career and Technical Education

Principles of Education and Training (.5)

Prerequisite: None

Principles of Education and Training is designed to introduce learners to the various careers available within the education and training career cluster. Students use self-knowledge and educational and career information to analyze various careers within the education and training career cluster. Students will also gain an understanding of the basic knowledge and skills essential to careers within the education and training career cluster. Students will develop a graduation plan that leads to a specific career choice in the student's interest area.

Principles of Health Science (.5)

Prerequisite: None

The Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry.

Principles of Hospitality and Tourism (.5)

Prerequisite: None

The hospitality and tourism industry encompasses lodging; travel and tourism; recreation, amusements, attractions, and resorts; and restaurants and food beverage service. The hospitality and tourism industry maintains the largest national employment base in the private sector. Students use knowledge and skills that meet industry standards to function effectively in various positions within this multifaceted industry. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Principles of Information Technology (.5)

Prerequisite: None

Students develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment.

Principles of Law, Public Safety, Corrections and Security (.5)

Prerequisite: None

Principles of Law, Public Safety, Corrections, and Security introduces students to professions in law enforcement, security, corrections, and fire and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, security, and corrections.

Principles of Manufacturing (.5)

Prerequisite: None

In Principles of Manufacturing, students gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. Knowledge and skills in the proper application of principles of manufacturing, the design of technology, the efficient production of technology, and the assessment of the effects of technology prepare students for success in the modern world. The study of technology allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting. In addition to general academic and technical knowledge and skills, students gain an understanding of career opportunities available in manufacturing and what employers require to gain and maintain employment in these careers.

Practicum In Manufacturing (2)

Prerequisite: Advanced Welding or Manufacturing Engineering

Practicum in Manufacturing is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.



Career and Technical Education

Principles of Technology (1)

Prerequisite: Robotics and Automation

In Principles of Technology, students will conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Various systems will be described in terms of space, time, energy, and matter. Students will study a variety of topics that include laws of motion, conservation of energy, momentum, electricity, magnetism, thermodynamics, and characteristics and behaviors of waves. Students will apply physics concepts and perform laboratory experimentations for at least 40% of instructional time using safe practices. Scientific inquiry, science and social ethics and scientific systems will also be covered.

Research in IT Solutions (2)

Prerequisite: Advanced Computer Programming

In information technology, students gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and technology concepts and standards are essential to prepare students for success in a technology-driven society. The critical thinking, information technology experience, and product development may be conducted in a classroom setting with an industry mentor, as an unpaid internship, or as career preparation.

Restaurant Management (.5)

Prerequisite: Principles of Hospitality and Tourism

This course will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Robotics and Automation (1)

Prerequisite: Concepts of Engineering and Technology

Robotics & Automation is a lab-based, hands-on curriculum combining electrical, mechanical and engineering principles. Students will learn to design, build, program and control robotic devices by applying science, technology, engineering and math concepts. A rigorous study and application of electrical concepts will include: sources of energy, electrical safety, use and identification of basic electronic components, sensors and actuators. Engineering concepts will include: mechanical design, prototype development, design testing, programming, and proper engineer documentation. Industrial automation, robotic applications and career opportunities will also be discussed.

Scientific Research & Design (1)

Prerequisite: Advanced Biotechnology

In this course, students conduct laboratory investigations and fieldwork, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving. The student actively formulates a problem related to health science, designs the research and procedures to be used, and plans a final product that will involve a formal presentation to representatives of the scientific community. The course may be conducted in the classroom setting or as an independent seminar. The course must include at least 40% laboratory investigation and fieldwork using appropriate scientific inquiry. This research-based course meets one of the Distinguished Achievement Program advanced measures. This course meets the requirements for the 4th science credit.

Statistics and Risk Management (1)

Prerequisite: Accounting II

Students will use a variety of graphical and numerical techniques to analyze patterns and departures from patterns to identify and manage risk that could impact an organization. Students will use probability as a tool for anticipating and forecasting data within business models to make decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid.



Career and Technical Education

Web Technologies (.5)

Prerequisite: Digital and Interactive Multimedia

Through the study of web technologies and design, students learn to make informed decisions and apply the decisions to the field of information technology.

Welding (1)

Prerequisite: Principles of Manufacturing

Rapid advances in technology have created new career opportunities and demands in many industries. Welding provides the knowledge, skills, and technologies required for employment in metal technology systems. Students develop knowledge and skills related to this system in order to apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer their knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success.



Miscellaneous Electives

ACT/SAT Preparatory Strategies

Prerequisite: None

The course is designed to provide students with strategies to meet the academic requirements and demands of post-high school studies and to prepare students to successfully take college entrance exams. Units of study include preparation for college entrance exams (SAT and ACT), vocabulary expansion, objective test-taking skills, research and critical thinking, attitudes, goal setting, and time management. Strategies necessary for successfully reading, comprehending, and studying advanced-level content textbooks both in high school and in college will also be addressed. *Class is only offered during 8th hour and on the weekends.

Business Education Cooperative

Prerequisite: Employment and Administrative Recommendation

Students take a career-related classroom seminar each week while working a minimum number of hours during the semester at a job in the area of their interest. Successful completion of the seminar and a minimum number of work experience hours in any one semester entitle a student to receive credit hours.

ITSC (.5) (Introduction to Computers) (Dual Credit)

Prerequisite: Passing score on TSI.

Overview of computer information systems. Introduces computer hardware, software, procedures, and human resources.

MRKG (.5) (Dual Credit) (Cooperative Education-Marketing/Marketing Management, General)

Prerequisite: Passing score on TSI.

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

Plato (Virtual Classes)

Prerequisite: Administrator Recommendation

Plato is a standards-based online learning program grounded in a tradition of solid research, sound pedagogy, and applied innovation. It is founded in rigorous, relevant curriculum that challenges your students with a 21st century approach - engaging them with interactive, media-rich content.

POFI 1301 (.5) (Computer Applications) (Dual Credit)

Prerequisite: Passing score on TSI.

Overview of computer office applications including current terminology and technology. Introduction to computer hardware, software applications, and procedures. This course may be repeated if topics and learning outcomes vary.

Student Aide (.5-1)

Prerequisite: Administrator Recommendation

Students will provide assistance to office staff, administrators or provide library support.

Student Leadership (1)

Prerequisite: Administrator Recommendation

Through a series of lectures, guided interaction, and group exercises, students will explore the principles of relational leadership and learn to develop individual and group leadership skills to impact their lives and their communities. Content areas include decision-making, goal setting, effective communication, servant leadership, organization and time management skills, and concrete strategies to implement change.



Miscellaneous Electives

Supportive Peers (.5-1)

Prerequisite: Administrator Recommendation

Provides support to special needs students. Instruction and skill development are offered in a variety of team sports. This instruction is planned to meet the needs of the individual students. The emphasis will be for students to develop and demonstrate physical skills, stamina, and an interest in physical activity and overall wellness. This curriculum framework will allow every student to become a physically-educated person.