

English I 1211/1212
Grade Level: 9
Two semesters—1.0 Credit
In this course, students will refine close reading, writing, speaking, and listening skills. They will write narrative, informative, explanatory, and argumentative essays for various tasks, audiences, and purposes. These writing pieces will include well-chosen and properly integrated support from texts. The class will provide multiple opportunities to read, comprehend, and write about multicultural literary and informational texts.

English 2 1221/1222
Grade Level: 10
Two semesters—1.0 Credit
Prerequisite: English 1
In this course, students will expand their application of close reading, writing, speaking, and listening skills. They will write well-organized narrative, informative, explanatory, and argumentative essays appropriate to task, purpose, and audience. Writings will center on analyzing complex literary and informational texts, incorporating textual evidence, and building increasingly more sophisticated writers and thinkers.

English 3 1231/1232
Grade Level: 11
Two semesters—1.0 Credit
Prerequisite: English 1 & 2
In this course, students will further cultivate close reading, writing, speaking, and listening skills by reading and responding to increasingly more difficult literary and informational text, as well as multi-media sources, to build independence and proficiency. They will produce clear and coherent narrative, informational/explanatory, and argumentative writing that effectively incorporates textual evidence for support.

English 4 1561/1562
Grade Level: 12
Two semesters—1.0 Credit
Prerequisite: English 1, 2, & 3
In this course, students will enhance reading, writing, verbal communication, and critical thinking skills essential for college, career, and life success. Students will read a variety of fiction/nonfiction from classical and contemporary texts. Students will also develop practical skills in technology, research, and communication in preparation to seek employment, apply for post-secondary education, and fulfill life goals.

Algebra I 2111/2112
Grade Level: 9, 10, 11, 12
Two semesters—1.0
Credit Prerequisite: Math 8
Students will learn to use algebraic tools to represent problem situations. They will gain an understanding of functions and their multiple representations. Emphasis will be placed on developing a

solid understanding of rate change. Students will model and solve important problems with linear, exponential, and quadratic functions and related equations. Students will also learn data analysis tools.

Geometry

2421/2422

Grade Level: 9, 10, 11, 12

Two semesters—1.0 Credit

Prerequisite: Algebra I (for single block course)

In this course, students will develop the tools of geometry including transformations, proof, and constructions. They will formalize geometric relationships involving angles, lines, triangles, quadrilaterals, and circles. Students will also learn to solve geometric modeling problems and analyze characteristics of three-dimensional shapes, including plane sections and solids of revolution. Throughout the course, students focus on developing logical arguments and use geometry to model their world.

Algebra II

2121/2122

Grade Level: 9, 10, 11, 12

Two semesters—1.0 Credit

Prerequisite: Geometry

Students will continue to study concepts introduced in Algebra I and Geometry such as linear functions, exponential functions, and quadratic functions. Students will learn about additional function families by identifying key features using multiple representations, average rate of change, and interpreting domain and range. The function families studied will include square root, cube root, piece-wise defined, polynomial logarithmic, rational, and inverse functions. Topics also include: rational exponents, arithmetic with rational expressions, arithmetic with polynomial expressions, function composition and transformation, and the complex number system.

Precalculus/Trigonometry

2151/2152

Grade Level: 11, 12

Two semesters—1.0 Credit

Prerequisite: Algebra II/Honors Algebra II

Students will extend the concepts of Algebra II to include theories of functions, systems of equations, matrices, exponential and logarithmic functions, trigonometric equations, and trigonometric applications.

Algebra III

2021/2022

Grade Level: 11, 12

Two semesters—1.0 Credit

Prerequisite: Algebra II

Algebra III reviews and extends algebraic concepts for students who have already taken Algebra II. Course topics include (but are not limited to) operations with rational and irrational expressions, factoring of rational expressions, linear equations and inequalities, quadratic equations, solving systems of linear and quadratic equations, properties of higher degree equations, and operations with rational and irrational exponents.

Math Applications

2154/2155

Grade Level: 12

Two semesters – 1.0 Credit

Math Applications has a focus on the application of algebra and geometry concepts. Students will apply concepts and skills learned in those courses to a wide variety of contexts. This course will provide students with an additional option for their third math credit.

Earth/Space Science

4351/4352

Grade Level: 10, 11, 12

Two semesters—1.0 Credit

Earth Science offers insight into the environment on Earth and the Earth's environment in space. Students in this laboratory-oriented survey course study selected topics from the sciences of astronomy, geology, meteorology, and oceanography. Students will utilize science and engineering practices and the cross cutting concepts to study the disciplinary core ideas found in the Next Generation Science Standards.

Biology 1

4251/4252

Grade Level: 9, 10, 11, 12

Two semesters—1.0 Credit

Biology provides information regarding the fundamental concepts of life and life processes. Students will study a variety of topics including structure and function of organisms, ecosystems, heredity, and evolution. Students will utilize science and engineering practices and the cross cutting concepts to study the disciplinary core ideas found in the Next Generation Standards.

Chemistry 1

4321/4322

Grade Level: 10, 11, 12

Two semesters—1.0 Credit

Recommended Prerequisite: Algebra I

This course involves studying the composition, properties, and reactions of substances. Topics include atomic structure, chemical bonding, chemical reactions, chemical formulas, acids and bases, and nuclear reactions. Class- work is supplemented by extensive laboratory work. Students will utilize science and engineering practices and the cross cutting concepts to study the disciplinary core ideas found in the Next Generation Science Standards.

Global and Environmental Studies

4827/4828

Grade Level: 10, 11, 12

Two semesters—1.0 Credit

This course examines the mutual relationships between organisms and their environment with emphasis on the interrelationships among plants, animals, humans, and the environment. It is a study of how individuals and societies utilize resources and the influence in their attempts to satisfy human wants. Students will utilize science and engineering practices and the cross cutting concepts to study the disciplinary core ideas found in the Next Generation Standards.

Physical Science

4811/4812

Grade Level: 10, 11, 12

Two semesters—1.0 Credit

This course is designed for all students to meet the physical science standards found in the KCCRS for Science (NGSS). Students will study topics in both physics and chemistry including structures and states of matter, energy, waves, electromagnetism, and physical/chemical interactions. The course may also provide a foundation for further study into physics, chemistry, and earth-space science. Students with passing grades in any Chemistry or Physics class are not to be enrolled in this course.

Zoology

4951/4952

Grade Level: 10, 11, 12

Two semesters—1.0 Credit

Prerequisite: Passing grade in Biology

In this course, students make comparative studies of animals, the niche they occupy in their environment or habitat, their life cycles, and their evolutionary relationship to other organisms.

Students should also develop an awareness and understanding of biotic communities.

World History 3451/3452 Grade Level: 9 Two semesters—1.0 Credit Students will take at least one semester of World History as part of the 3 social studies units required for graduation. To prepare for the state assessment in social studies, a full year of World History is recommended. Course emphasis is placed on gaining historical perspective and applying good reading and writing skills in the study of world history from the Renaissance to the present. Students learn to compare and contrast cultures and religions by applying the social, political, geographic, and economic tools of the historian.

United States History 1

3361/3362

Grade Level: 10

Two semesters—1.0 Credit

In this required course, students will study the period of American history from Reconstruction through the Roaring Twenties, including issues of the Nineteenth Century as they impacted the issues and events of the Twentieth Century.

United States History 2

3641/3642

Grade Level: 11, 12

Two semesters—1.0 Credit

This required course is a continuation of United States History 1. The scope of the course is from the Great Depression to the present. The study of economic concepts will be integrated throughout the course. Course emphasis is placed upon World War II and its aftermath, the Cold War, the struggle for Civil Rights, the changing American society, the rise of technology, and major political issues.

United States Government

3350

Grade Level: 12

One semester—0.5 Credit

Students in this required semester course will focus on the federal level of the American political system.

Psychology 3700

Grade Level: 11, 12

One semester—0.5 Credit

In this course, students will study the mind, consciousness, and behavior. Students will learn and apply basic theories of psychology, study the nervous system, psychobiology, perception, and personality. Emphasis will be placed on the importance of the experimental method in relation to the study of psychology. Students will write and perform approved experiments in social perception.

Economics 3200

Grade Level: 12

One semester—0.5 Credit

In this course, students will study conditions and laws which affect the production, distribution, and consumption of wealth. Elements include prices, supply and demand, market structure, monetary and fiscal policy, economic fluctuations, and basic economic problems with an emphasis on learning and applying tools of economic analysis.

World Geography 3307/3308

Grade Level: 9, 10, 11, 12

One semester—0.5 Credit

Students will study the relationship between people and the land. They will learn about the Earth's physical features and how culture is influenced by physical environment. Throughout the course the five fundamental themes of geography will be emphasized: location, place, human-environment interactions, movement, and regions. This course will satisfy the World Studies requirement.

Sociology 3800

Grade Level: 11, 12

One semester—0.5 Credit

In this course, students will study the forms, functions and institutions of human groups. Special emphasis will be placed on the studies of family relationships, and of contributory factors of improving relationships between individuals and groups.

Lifetime Sports 9207/9208

Grade Level: 10, 11, 12

Two semester—1.0 Credit

Prerequisite: Physical Education & Health Foundations

In this course, students will actively participate in skill development, lead-up games and lifetime sports with an emphasis on individual and dual activities. May include but is not limited to the following activities as per class decision: tennis, aerobics, archery, badminton, bowling, fencing, Frisbee, golf, hand- ball, jogging, racquetball, shuffleboard, softball, swimming, table tennis, volleyball, weight training, basketball, hockey, flag football, soccer, and/or speedball. This course may be repeated for credit.

Physical Education & Health Foundations

8748/8749

Grade Level: 9, 10, 11, 12

Two semester—1.0 Credit

This required course provides opportunities for students to acquire the knowledge and skills needed to engage in a physically active, healthy lifestyle throughout life. Three areas of focus in the course are: 1) health related fitness, 2) lifetime physical activity, and 3) health/wellness concepts and skills. The intended outcomes of the course are that students will be able to: a) assess and interpret personal health/fitness status, b) design, implement, and evaluate a personal health/fitness plan for developing and maintaining a physically active healthy lifestyle, c) analyze current health/fitness issues impacting youth and adults, d) demonstrate effective use of personal and social skills to enhance health/fitness behavior, and e) utilize a variety of physical activities to engage in a healthy lifestyle.

Drawing/Painting 1

8251/8252

Grade Level: 9, 10, 11, 12

Two semesters—1.0 Credit Drawing/Painting 1 courses focus on drawing and painting together in a foundational presentation. Attention is given to two-dimensional work and utilizes one or more mediums, such as pen-and-ink, pencil, chalk, watercolor, tempera, oils, and acrylics. As students advance and become more adept, the instruction regarding the creative process becomes more refined and students are encouraged to develop their own artistic styles. Design fundamentals, art history and art criticism are integral components of the course.

Introduction to Art

8201/8202

Grade Level: 9, 10, 11, 12

Two semesters—1.0 Credit

Introduction to Art are basic courses in the fundamentals of artistic expression taught in grades 9-12. The courses may include experiences in drawing, painting, two and three-dimensional design, and ceramics and sculpture. The courses emphasize observations, interpretation of the visual environment, visual communication, imagination and symbolism, and an introduction to various visual arts media. The focus of the course is on application of the elements of art and principles of design. A study of historical and contemporary art and artists from a world-wide perspective, and instruction and practice in the critique process are included.

Art History

8010/8011

Grade Level: 9, 10, 11, 12

Two semester—1.0 Credit

Art history courses introduce students to significant works of art, artists and artistic movements that have shaped the art world and have influence or reflected various periods of history. Course content emphasizes the sequential evolution of art forms, techniques, symbols, and themes. The course covers the relationship of art to historical events throughout the world, while covering multiple artists, contemporary aesthetic issues, and the development of art. Critical analysis of visual images, as they communicate and express the history, needs, and ideals of society and individuals is included.

Group Dynamics

9016/9017

Grade Level: 9, 10, 11, 12

One or Two semesters—0.5 or 1.0 Credit

This class is designed to assist students in developing positive, productive life skills. The life skills curriculum will focus on such areas as self-esteem, decision-making, personal control, and interpersonal communication. This course may be repeated for credit.

Accounting

6013/6014

Grade Level: 10, 11, 12

Two semesters—1.0 Credit

Accounting is a technical level course in the Business Entrepreneurship & Management and Business Finance pathways, and the Marketing Management strand of the Marketing pathway. It introduces the fundamental accounting principles and procedures used in businesses. Course content typically includes the full accounting cycle, payroll, taxes, debts, depreciation, ledger and journal techniques, and periodic adjustments. Students may learn how to apply standard auditing principles and to prepare budgets and final reports. Calculators, electronic spreadsheets, or other automated tools are used.

Audio/Visual Production Fundamentals

5744

Grade Level: 9, 10, 11, 12

One semester—0.5 Credit

Prerequisite: Computer Essentials Recommended

Audio/Video Production Fundamentals is a technical level course in the A/V strand of the A/V Communications pathway. It is designed to provide students with a basic understanding of producing video for a variety of uses. Topics include analyzing the pre-production, production and post-production process, as well as exploring the equipment and techniques used to develop a quality audio video product.

Business Essentials

6720

Grade Level: 9, 10, 11, 12

One semester—0.5 Credit

Business Essentials is an introductory course designed to give students an overview of business, marketing, and finance careers. Students will participate in a variety of learning activities in the areas of economics, entrepreneurship, marketing, finance, and business law. In the final unit of study, students will identify employability and personal skills needed to obtain a career and be successful in the workplace as well as explore specific career and post-secondary education opportunities

Banking and Finance

6049

Grade Level: 11, 12

One semester—0.5 Credit

Prerequisite: Accounting or Youth Entrepreneurs of KS

Banking and Finance is an application level course in the Finance strand of the Business Finance pathway. It provides students with an overview of the American Business Finance pathway. It provides students with an overview of the American monetary and banking system as well as types of financial institutions and the services and products they offer. Course content may include government

regulations; checking, savings, and money market accounts; loans; investments; and negotiable instruments.

Computer Essentials

5735

Grade Level: 9, 10, 11, 12

One semester—0.5 Credit

Computer Essentials is an introductory level course in the A/V Communications, Network Systems, Programming & Software Development, Web & Digital Communications, and Visual Arts pathways. Students will acquire knowledge of and experience in the proper and efficient use of software commonly used in business and industry. This course explores a wide range of applications, including (but not limited to) word-processing, spreadsheet, graphics, and database programs, and they may also cover the use of electronic mail and desktop publishing.

Computer Graphics

5741/5742

Grade Level: 9, 10, 11, 12

Two semesters—1.0 Credit

Prerequisite: Computer Essentials Recommended

Computer Graphics is a technical level course in the Web & Digital Communications pathway, and the Graphic Design strand of the Visual Arts pathway. It is also recommended for students in the A/V strand of the A/V Communications pathway. Students will explore the capability of the computer to produce visual imagery and to apply graphic techniques to various fields, such as advertising, TV/video, and architecture. Typical course topics include modeling, simulation, animation, and image retouching.

Digital Media Design & Production

5745/5746

Grade Level: 11, 12

Two semesters—1.0 Credit

Prerequisite: Digital Video Production Digital Media Design & Production is an application level course in the A/V strand of the A/V Communications pathway. It is designed to provide students with the opportunity to apply the fundamental techniques learned in the Digital Video Production and Audio/Video Production Fundamentals courses through the production of a multi-media project for public presentation. Topics include developing a production schedule, working as a team, utilizing composition principles, and embedding audio video or other content in digital formats.

Digital Media Project Management

7253F/7254F

Grade Level: 11, 12

Two semesters—1.0 Credit

Prerequisite: Digital Media Technology or Teacher Approval

An application level course in which students are taught the skills necessary for success in managing projects in a professional manner. The course covers effectively using time and resources, problem-solving and decision-making, and leadership skills.

Digital Media Technology

5713/5713T

Grade Level: 11, 12

Two semesters—1.0 Credit

Prerequisite: 21st Century Journalism or Fundamentals of Graphic Design

Digital Media Technology is a technical level course in the Communications strand of the A/V Communications pathway. Students learn the technical skills needed to work with electronic media. Topics include exploring the use of digital imaging and video today and in the future, a study of the relationship of work flow to project planning and completion and the software, equipment and tools used in the industry.

Digital Video Production

5725/5726

Grade Level: 10, 11, 12

Two semesters—1.0 Credit

Prerequisite: Audio/Visual Production Fundamentals

Digital Video Production is an application level course in the A/V strand of the A/V Communications pathway. Students apply the technical skills learned in Audio/Video Production Fundamentals by planning projects from setting the objectives to the post-production evaluation. The subject of the presentations will address authentic needs in the school or community.

Entrepreneurship

6906

Grade Level: 9, 10, 11, 12

One semester—0.5 Credit

Entrepreneurship is a technical level course in the Marketing Communications strand of the Marketing pathways. It acquaints students with the knowledge and skills necessary to own and operate their own businesses. Topics from several fields are typically from the course content: economics, marketing principles, human relations and psychology, business and labor law, legal rights and responsibilities of ownership, business and financial planning, finance and accounting and communications.

Fundamentals of Graphic Design

5712

Grade Level: 10, 11, 12

One semester—0.5 Credit

Fundamentals of Graphic Design is a technical level course in the Communications strand of the A/V Communications pathway and in the Graphic Design strand for the Visual Arts Pathway. Students will gain a basic understanding of the graphic design process. Topics include analyzing the design elements and principles, exploring industry tools, software and equipment and learning composition techniques to develop a quality product.

Graphic Design

5781/5782

Grade Level: 10, 11, 12

Two semesters—1.0 Credit

Prerequisite: Principles of Illustration or Fundamentals of Graphic Design

Graphic Design is a technical level course in the Graphic Design strand of the Visual Arts pathway. It emphasizes design elements and principles in the purposeful arrangement of images and text to communicate a message, ideas, or other information through digital or printed media. Focus of the course will be on creating art products such as advertisements, product designs, and identity symbols. Eligible for Fine Arts credit.

Graphic Design Project Management

7255F/7256F

Grade Level: 11, 12

Two semesters—1.0 Credit

Prerequisite: Graphic Design

An application level course in which students are taught the skills necessary for success in managing projects in a professional manner. The course covers effectively using time and resources, problem-solving and decision-making, and leadership skills.

Introduction to Drawing

5769

Grade Level: 9, 10

One semester—0.5 Credit

Introduction to Drawing is an introductory level course in the Visual Arts pathway. It emphasizes the development of fundamental drawing skills. Focus will be on the application of art theory, processes and techniques that increase the power of observation. Instruction includes the elements and principles of design as applied in composition through hard copy and/or electronic software. This course may be taken for Fine Arts credit.

Media & Public Relations

5714

Grade Level: 10, 11, 12

One semester—0.5 Credit

Prerequisite: 21st Century Journalism & Fundamentals of Graphic Design

Media & Public Relations is a technical level course in the Communications strand of the A/V Communications pathway. Students will build skills needed to communicate messages to the public as it relates to topics of concern. Topics will include conflict awareness, reliability of sources, creating publicity materials, public relations campaigns and working with media.

Photo Imaging

5715

Grade Level: 9, 10, 11, 12

One semester—0.5 Credit

Photo Imaging is a technical level course in the Communications strand of the A/V Communications pathway and in the Graphic Design strand of the Visual Arts pathway. Students learn the technical skills needed to produce quality images for use in a variety of applications. Topics include use of equipment, software and techniques to take, edit and manipulate digital images. Eligible for Fine Arts Credit.

Principles of Illustration

5778

Grade Level: 9, 10, 11, 12

One semester—0.5 Credit

Principles of Illustration is a technical level course in the Visual Arts pathway. Students explore a variety of media, tools and supports as a means to communicate ideas. Topics include an understanding of traditional and digital illustration as it applies to careers in graphic design, animation, fashion/ textile design, industrial design, web design, architecture, interior design and/ or fine arts. This course may be taken for Fine Arts credit.

Principles of Marketing

6611/6612

Grade Level: 10, 11, 12

Two semesters—1.0 Credit

Principles of Marketing is a technical level course in the Marketing pathway. This course offers students insight into the processes affecting the flow of goods and services from the producer to the consumer. Course content ranges considerably in general marketing principles such as purchasing, distribution, and sales. As an added component to classroom learning, students will engage in hands-on, real world activities through a variety of instructional methods including guest speakers, computer simulations, and DECA activities. Student participation in co-curricular DECA is strongly encouraged.

Postsecondary Studies

Postsecondary courses provide the opportunity for students to pursue post-secondary CTE studies with a regional community or technical college through courses that are eligible for student tuition support through the Kansas Board of Regents.

Grade Level: 11, 12

One semester—0.5 Credit

Postsecondary Studies

A/V Communications 9099

Architecture & Construction 9078

Business and Marketing Management 9106

Engineering & Applied Mathematics 9109

Health Science 9111 Human Services 9113

Information Technology 9132

Visual Arts Postsecondary Studies 9428

LPSS 9140

Manufacturing Production 9186

Mobile Equipment Maintenance 9195

Restaurant & Event Management 9197