

Rock Creek High School

Course Description Guide

2022-2023



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USD 323 GRADUATION REQUIREMENTS

Departments	Required Credits
English	4.0
Math	3.0
Science	3.0
Social Studies	3.0
PE/Health	1.0
Speech/Fine Arts	1.0
Financial Literacy	.5
Computer Applications	1.0
Electives	8.5
Total	25.0
EXIT PROJECT – Successful completion	

¹ Credit of Fine Arts must include a semester of Speech, Debate, or Forensics.
Other Fine Arts classes include Art, Band, Choir, Journalism, and Public Speaking.

KANSAS BOARD OF REGENTS QUALIFIED ADMISSIONS

Five of the six state universities in Kansas, including Emporia State University, Fort Hays State University, Kansas State University, Pittsburg State University, and Wichita State University, use the standards below to review applicants for undergraduate admission. The University of Kansas has different admission standards (visit admissions.ku.edu for more information). Standards are set by the Kansas Board of Regents. For complete information regarding admissions standards, please see: <https://www.kansasregents.org/students/admissions>

Please refer to the following table, courtesy of Kansas Board of Regents, for a clear outline of the requirements.



Qualified Admissions

Current Freshman Criteria – Under 21 Requirements for Accredited High School Graduate	Amendments Accredited High School Graduate	
	ESU, PSU, FHSU, KSU, and WSU	K-State
ACT: 21+ <u>or</u> Rank in top third of class	ACT: 21+ <u>or</u> Cumulative GPA of 2.25	ACT: 21+ <u>or</u> Cumulative GPA of 3.25
Complete Precollege Curriculum with a 2.0 GPA (Resident)/2.5 GPA (Nonresident). Curriculum consists of: -English (4 units); Math (3 units with ACT benchmark of 22 or 4 units with one taken in senior year); Natural Science (3 units with one unit in chemistry or physics); Social Science (3 units); Electives (3 units) <i>Note: As part of the admission application, students list each high school course taken along with the grade.</i>	Units (but not specific courses) are recommended; units are not required.	Units (but not specific courses) are recommended; units are not required.
2.0 cumulative GPA on any college courses taken while in high school	2.0 cumulative GPA on any college courses taken while in high school	2.0 cumulative GPA on any college courses taken while in high school

Current Freshman Criteria – Under 21 Requirements for Accredited High School Graduate	Amendments Accredited High School Graduate	
	KU	
Cumulative GPA of 3.25 and ACT 21+ <u>or</u> Cumulative GPA of 3.0 and ACT 24+	Cumulative GPA of 3.25 and ACT 21+ <u>or</u> Cumulative GPA of 3.0 and ACT 24+	
Complete the Precollege Curriculum as described above	Units (but not specific courses) are recommended; units are not required.	
2.0 cumulative GPA on any college courses taken while in high school	2.0 cumulative GPA on any college courses taken while in high school	

High School Graduating Class of 2020	High School Graduating Class of 2021
Current QA Criteria Apply	Amended QA Criteria Apply

KANSAS SCHOLARS PROGRAM

If a student completes the Kansas Scholars Curriculum, they will be recognized as a Kansas Scholars Curriculum Completer their senior year. Based on ACT score and GPA, a top portion of the State's completers will be designated as State Scholars. State Scholars have the opportunity to apply for the Kansas State Scholarship through the Kansas Board of Regents.

English – 4 years

One unit to be taken each year. Must include substantial recurrent practice in writing extensive and structured papers, extensive reading of significant literature, and significant experience in speaking and listening.

Mathematics – 4 years

Algebra I, Algebra II, Geometry, and one unit of advanced mathematics -- suggested courses include: Analytic Geometry, Trigonometry, Advanced Algebra, Probability and Statistics, Functions or Calculus. Completion of Algebra I in 8th grade is acceptable for the Kansas Scholars Curriculum, but not for Qualified Admissions.

Science – 3 years

One year each in Biology, Chemistry, and Physics, each of which include an average of one laboratory period a week. Applied/technical courses may not substitute for a unit of natural science credit.

Social Studies - 3 years

One unit of US History; minimum of one-half unit of US Government and minimum of one-half unit selected from: World History, World Geography or International Relations; and one unit selected from: Psychology, Economics, US Government, US History, Current Social Issues, Sociology, Anthropology, and Race and Ethnic Group Relations. Half unit courses may be combined to make this a whole unit.

Foreign Language - 2 years

Two years of one language. Latin and Sign Language are accepted.

ADVANCED PLACEMENT PROGRAM

As a nationally recognized cooperative educational endeavor linking secondary and post-secondary schools, the AP program affords students an opportunity to complete college level courses (English, math, natural science) and demonstrate their subject matter mastery via comprehensive final exams. Those individuals successfully completing AP exams qualify for advanced credit at various colleges and universities. Current AP classes offered at RC include:

- AP English Language
- AP Calculus
- AP Biology

CONCURRENT CREDIT CLASSES

Interested and eligible Rock Creek juniors and seniors are extended an opportunity to generate college credit via Highland Community College. Participating students will be awarded high school and college credit classes completed at Rock Creek High School. Enrollment details, payment schedules, and transfer options are outlined for all junior and senior students each semester. The following concurrent credit courses are available annually:

- Public Speaking = SP106
- College Algebra = MAT104
- Basic Statistics = MAT203

NCAA/NAIA ELIGIBILITY

Students interested in pursuing post-secondary athletic opportunities should alert the counselor early in their high school career to ensure all eligibility requirements are met.

All NCAA requirements can be reviewed at: <http://www.ncsasports.org/ncaa-eligibility-center/eligibility-requirements>

All NAIA requirements can be reviewed at: <https://www.playnaia.org/eligibility-center>

Division I academic eligibility

To be eligible to compete in NCAA sports during your first year at a Division I school, you must graduate high school and meet ALL the following requirements:

Complete 16 core courses:

- Four years of English
- Three years of math (Algebra 1 or higher)
- Two years of natural/physical science (including one year of lab science if your high school offers it)
- One additional year of English, math or natural/physical science
- Two years of social science
- Four additional years of English, math, natural/physical science, social science, foreign language, comparative religion or philosophy

Complete 10 core courses, including seven in English, math or natural/physical science, before your seventh semester.

- Once you begin your seventh semester, you may not repeat or replace any of those 10 courses to improve your core-course GPA.

Earn at least a 2.3 GPA in your core courses.

Earn an SAT combined score or ACT sum score matching your core-course GPA on the Division I sliding scale, which balances your test score and core-course GPA.

- If you have a low test score, you need a higher core-course GPA to be eligible. If you have a low core-course GPA, you need a higher test score to be eligible.

Division II academic eligibility

To be eligible to compete in NCAA sports during your first year at a Division II school, you must graduate high school and meet ALL the following requirements:

Earn a core course GPA of 2.2 or higher

Complete 16 core courses

- 3 years of English
- 2 years of math (Algebra 1 or higher)
- 2 years of natural/physical science, 1 year must be lab science if your school offers it
- 3 additional years of English, math or natural/physical science
- 2 years of social science
- 4 additional years of English, math, natural/physical science, social science, foreign language, comparative religion or philosophy

Earn an SAT combined score or ACT sum score matching your core-course GPA on the Division II sliding scale.

NAIA academic eligibility

To be eligible to compete in NAIA sports during your first year, you must graduate high school and **meet two** of the following three requirements:

1. Minimum 2.0 GPA or higher on a 4.0 scale
2. Minimum ACT or SAT score - Only one qualifying test score is needed

-18 composite score on the ACT for tests taken before March 2016*

*EXCEPTION: Per NAIA Bylaws V.C.2a, "For ACT tests taken beginning March 2016, a minimum score of 16 will satisfy this requirement. This exception will apply through the 2018-19 academic year, after which time the exception will expire." Have your ACT scores sent to the NAIA Eligibility Center

OR

- 860 on the SAT (Evidence-Based Reading and Writing & Math)
- 3. Graduate in the top half of your high school class

ROCK CREEK HIGH SCHOOL - COURSE DESCRIPTIONS

ADVISOR

Intended grade level: 9-12
Prerequisite: None
Length of course: 2 semesters
Credit: 0

Advisor period is designed as an opportunity for students (under the direct supervision of their Advisor teachers) to work on coursework, meet with classroom teachers regarding current assignments, and to complete make-up work during school hours. This is also an opportunity for Advisor teachers to work with their students in setting goals, teaching organizational strategies, and assisting their students in being prepared for upcoming assignments and events.

TEACHER AIDE

Intended grade level: 12
Prerequisites: Teacher approval
Length of course: 1 or 2 semesters
Credit: .25 per semester on pass/fail basis

Students may enroll as Teacher Aides with the permission of the teacher. An application process is available at the beginning of each semester.

FRESHMAN ORIENTATION

Intended grade level: 9
Prerequisites: None
Length of course: 1 semester
Credit: .5 elective credit

Freshman Orientation will provide students with an introduction to the culture of Rock Creek so that they understand Staff expectations and the school's structure and conventions. Topics might include by are not limited to: study habits, time management, social skills, relationship building, and self-advocacy.

ACT TEST PREP

Intended grade level: 11-12 fall semester; 10-11 spring semester
Prerequisites: None
Length of course: 1 semester
Credit: .5 (elective credit)

This course will prepare students for national standardized tests such as the ACT. Information and preparation on each of the sections tested on the ACT (English, Reading, Math and Science), test taking strategies, skills and vocabulary practice may all be covered in this course. Additionally, other topics covered may include mathematical concepts and rules, problem-solving strategies, and English grammar skills.

CORE

Intended grade level: 9-12

Prerequisites: None

Length of course: 2 semesters

Credit: 0

CORE (Communication, Organization, Responsibility, Expectations) time is a designated time for students and teachers to build relationships, set goals, and discuss current academic performance and personal functioning. This time will serve as a recurring check in opportunity for students

SEL/CAREER EXPLORATION

Intended grade level: 9-12

Prerequisites: None

Length of course: 2 semesters

Credit: 0

“Social Emotional Learning (SEL) is the process through which all young people and adults acquire and apply the knowledge, skills, and attitudes to develop healthy identities, manage emotions and achieve personal and collective goals, feel and show empathy for others, establish and maintain supportive relationships, and make responsible and caring decisions” (CASEL, 2022). Career Exploration is a time for students to work on their Individual Plan of Study (IPS), research post-secondary opportunities and career opportunities.

AGRICULTURAL EDUCATION DEPARTMENT

<u>Courses</u>	<u>Prerequisite</u>	<u>Year</u>	<u>Credit</u>
Agriscience	Ag Explorations	9-10	1.0
Ag Mechanics	Agriscience	10-12	1.0
Ag Structures	Agriscience	10-12	1.0
Animal Science	Agriscience	10-12	1.0
Horticulture	Agriscience	10-12	1.0
Ag Fabrication	Ag Mechanics, Ag Structures	11-12	1.0

AGRISCIENCE

Intended grade level: 9-10

Prerequisite: Ag Explorations

Length of course: 2 semesters

Credit: 1

The Agriscience course provides students an introduction to agriculture that is focused on the career clusters model. Students will gain experience and basic skills in all seven areas of agriculture. Students will gain hands-on experience through student projects, introduction to FFA and SAE programs.

AG MECHANICS (Rotates yearly with Ag Structures – even years)

Intended grade level: 10-12

Prerequisite: Agriscience

Length of course: 2 semesters

Credit: 1

The Ag Mechanics course focuses on careers, autocad, hydraulics, small gas engines, DC electricity, shop skills, and metal fabrication projects and continued development in FFA and SAE.

AG STRUCTURES (Rotates yearly with Ag Mechanics – odd years)

Intended grade level: 10-12

Prerequisite: Agriscience

Length of course: 2 semesters

Credit: 1

The Ag Structures course focuses on careers, autocad, concrete, surveying, soil and water conservation, electricity, plumbing, building structures, metal fabrication, projects and continued development in FFA and SAE.

ANIMAL SCIENCE (Rotates yearly with Horticulture – odd years)

Intended grade level: 10-12

Prerequisite: Agriscience
Length of course: 2 semesters
Credit: 1

The Animal Science course focuses on all aspects of animal and livestock production including breeding, selection, health management and care. Students will gain hands-on experience through student projects, introduction to FFA and SAE programs. ****This course qualifies as a science course.**

HORTICULTURE (Rotates yearly with Animal Science – even years)

Intended grade level: 10-12
Prerequisite: Agriscience
Length of course: 2 semesters
Credit: 1

The Horticulture course focuses on all aspects of plant development and production. Students will learn plant growth and reproduction and then utilize this information in the greenhouse setting. Students will gain hands-on experience through student projects, introduction to FFA and SAE programs. ****This course qualifies as a science course.**

AG FABRICATION

Intended grade level: 11-12
Prerequisites: Ag Mechanics & Ag Structures, one can be taken concurrently
Length: 2 semesters
Credit: 1

The Ag Fabrication course focuses on advanced shop skills, metal fabrication, projects and continued development in FFA and SAE.

ARCHITECTURE AND CONSTRUCTION EDUCATION DEPARTMENT

<u>Courses</u>	<u>Prerequisite</u>	<u>Year</u>	<u>Credit</u>
Intro. to Industrial Technology/Drafting	None	9-12	1.0
Drafting CAD	Intro to Tech/Drafting	10-12	1.0
Carpentry I	Intro to Tech/Drafting	10-12	1.0
Carpentry II	Carpentry I	11-12	1.0
Woodworking Principles	Intro to Tech/Drafting	10-12	1.0
Furniture and Cabinetry Fabrication	Woodworking Principles	11-12	1.0

INTRODUCTION TO INDUSTRIAL TECHNOLOGY AND DRAFTING

Intended grade level: 9-12

Prerequisite: None

Length of Course: 2 Semesters

Credit: 1

An introductory Level course designed to instruct students in the basic skills necessary to all occupations in the Construction, Manufacturing and Transportation areas and expose students to both architectural and mechanical drafting skills. Identify causes of accidents. Recognize and identify some of the basic hand tools and their proper uses in industrial trades. Perform the drafting principles needed to draw the basic geometric shapes. Demonstrate critical thinking skills and the ability to solve problems using those skills, recognize hazards, and follow safety procedures required for materials handling.

DRAFTING CAD

Intended grade level: 10-12

Prerequisite: Intro to Industrial Technology and Drafting

Length of course: 2 semesters

Credit: 1

This course will focus on intermediate drafting skills. The student will complete both manual and Computer Aided Drafting (CAD).

CARPENTRY I

Intended grade level: 10-12

Prerequisite: Introduction to Industrial Technology and Drafting

Length of Course: 2 semesters

Credit: 1

A comprehensive course designed to instruct students in the basic knowledge and skills required for construction of residential structures. Demonstrate blueprint reading skills including the interpretation of plans, elevations, schedules, sections, and details. Estimate building materials and cost for a project.

CARPENTRY II

Intended grade level: 11-12

Prerequisite: Carpentry I

Length of course: 2 semesters

Credit: 1

This course will focus on advanced carpentry skills and design. Students will continue to learn new skills and be expected to play a leadership role with the Carpentry I class. Course topics will include: efficient building design, alternative materials, cost analysis, ordinances and codes, basic surveying, basic plumbing, basic electrical, customer relations, business planning.

WOODWORKING PRINCIPLES

Intended grade level: 10-12

Prerequisite: Introduction to Industrial Technology and Drafting

Length of Course: 2 semesters

Credit: 1

A comprehensive course designed to instruct students in the basic knowledge and skills required for cabinetmaking and furniture design.

FURNITURE AND CABINETRY FABRICATION

Intended grade level: 11-12

Prerequisite: Woodworking Principles

Length of course: 2 semesters

Credit: 1

This course will focus on advanced woodshop skills. Students will learn advanced joinery techniques and machining processes and be expected to produce high quality works. The student will, in large part, be self-directed. Student will also play an advisory role for the woodworking class. Course topics include: project selection, cost analysis, safe/efficient tool usage, advanced lathe techniques, CNC router, customer relations, business planning.

ART DEPARTMENT

<u>Courses</u>	<u>Prerequisite</u>	<u>Year</u>	<u>Credit</u>
2D/3D Design	None	9-12	.5
Advanced 2D/3D Design	2D/3D Design with a C-	10-12	1.0
Ceramics I	2D/3D Design with C-	9-12	.5
Ceramics II	Ceramics I with C-	10-12	.5
Ceramics III	Ceramics II with C-	11-12	.5
Drawing I	2D/3D Design with C-	10-12	.5
Drawing II	Drawing I with C-	11-12	.5
Drawing III	Drawing II with C-	12	.5
Graphic Design I	2D/3D Design with C-	9-12	.5
Graphic Design II	Graphic Design I with C-	10-12	.5
Graphic Design III	Graphic Design II with C-	11-12	.5
Painting I	2D/3D Design with C-	9-12	.5
Painting II	Painting I with C-	10-12	.5
Painting III	Painting II with C-	11-12	.5
Photography I	2D/3D Design with C-	10-12	.5
Photography II	Photography I with C-	11-12	.5
Photography III	Photography II with C-	12	.5
Metalsmithing I	2D/3D Design with C-	10-12	.5
Metalsmithing II	Metalsmithing I with C-	11-12	.5
Metalsmithing III	Metalsmithing II with C-	11-12	.5

- **With the exception of 2D/3D Design, students will need to pass any previous art course with a C– or better to advance to the next course.**
- **Students need instructor’s permission to take more than two art classes in one semester.**

2D/3D DESIGN

Intended grade level: 9-12

Prerequisite: None

Length of course: 1 semester

Credit: .5

This class is the introductory course for the high school level. The class will examine and deal with concepts and principles of art. Students will work in 2-Dimensional and 3-Dimensional formats. The focus will be on basic design elements and principles of art dealing with flat 2-D surfaces such as drawing and painting, and 3-D surfaces from a sculptural format. Students will explore multiple media such as graphite, colored pencil, tempera painting, and sculpture formats. Students must complete this semester course with a C– or better to move on to other art classes.

ADVANCED 2D/3D DESIGN

Intended grade level: 10-12

Prerequisite: 2D/3D Design with a C- or better

Length of course: 2 semesters

Credit: .1.0

Advanced 2D/3D Design students will expand upon pre-requisite 2D/3D Design through further instruction and projects involving a variety of mediums. As a year-long course, advanced students will be able to further expand upon their interests through in-depth projects.

CERAMICS I

Intended grade level: 9-12

Prerequisite: 2D/3D Design or C- in last art class taken

Length of course: 1 semester

Credit: .5

Ceramics I will explore hand-building techniques as well as the use of the potter's wheel. Clay preparation, texturing techniques, decoration, and glazing will be included. Students will need to draw projects before building.

CERAMICS II

Intended grade level: 10-12

Prerequisite: Ceramics I with a C- or better

Length of course: 1 semester

Credit: .5

Students will spend more time working the wheel and will expand on basic knowledge of clay into decorative non-functional pieces as well as multiple projects based on the same theme. Decorative glaze techniques will also be used. This is a course to explore one's creativity in a 3 dimensional medium.

CERAMICS III

Intended grade level: 10-12

Prerequisite: Ceramics II with a C-

Length of course: 1 semester

Credit: .5

This course will work sculpturally in clay. Students will work on non-functional sculpture projects and functional projects. Students will be given the freedom to explore glass ornamentation, such as making glass handles for clay vessels. This is an advanced class in sculpture using the mediums of clay and glass.

DRAWING I

Intended grade level: 10-12

Prerequisite: 2D/3D Design with a C- or better

Length of course: 1 semester

Credit: .5

This course will concentrate on drawing skills and graphic skills. Students will work cutting edge drawings skills that deal with current Urban Art movements and graphic artist styles. Students will use pencil, colored pencil, ink, and computer media.

DRAWING II

Intended grade level: 11-12

Prerequisite: Drawing I with a C- or better

Length of course: 1 semester

Credit: .5

This course is an advanced course in drawing and graphic design. Students will study and apply to their own artwork what is being done in illustration, styles of current extraordinary drawing artist, and urban art. This is an exciting creative experience in drawing and graphic art.

DRAWING III

Intended grade level: 12

Prerequisite: Drawing II with a C- or better

Length of course: 1 semester

Credit: .5

This course is an advanced course in drawing concepts. Students will be allowed more freedom to choose different kinds of media to explore as well as delving deep into advanced concepts.

GRAPHIC DESIGN I

Intended grade level: 9-12

Prerequisite: 2D/3D Design with a C- or better

Length of course: 1 semester

Credit: .5

This course produces visual solutions to communication needs of commercial art. Students will learn how to communicate with art. They will use a mix of creative skills and media (Adobe Photoshop as well as fine art media) to create art that communicates to an audience. Students will develop an imaginative flair, awareness of current fashions in the visual arts, working knowledge of the latest computer packages and an understanding of material costs and time limits, all of which can impact on a design in a real world setting. Screen printing, photography, computer art, painting, and drawing will all be used in this course to explore communication.

GRAPHIC DESIGN II

Intended grade level: 10-12

Prerequisite: Graphic Design I with a C- or better

Length of course: 1 semester

Credit: .5

This course will expand on ways to communicate with an audience through art. Students will

explore advanced concepts in illustration, visual arts, and commercial design. Students will have more freedom to pick media to expand awareness of visual arts and what is current in the field today. Students will work with painting, drawing, illustration, computer art, and all types of visual communications media.

GRAPHIC DESIGN III

Intended grade level: 11-12

Prerequisite: Graphic Design II with a C– or better

Length of course: 1 semester

Credit: .5

In this course students will be responsible for two or more possible outstanding subject ideas. These topics need to be unusual, challenging, and substantial enough to use as a theme for class project work. Students need project ideas that can be approached in an individual and innovative way and students are able to work through multiple projects of study in differing media on these Themed Project ideas.

PAINTING I

Intended grade level: 9-12

Prerequisite: 2D/3D Design with a C– or better

Length of course: 1 semester

Credit: .5

This course deals with painting and drawing techniques and styles. The medias used will be acrylic, watercolor, oil pastel, graphite, charcoal, and pen and ink. Techniques that will be taught involve learning how to use each media, blending styles, artist tips, and a variety of canvas sizes. When weather permits in the late spring, we will be painting and drawing outside from nature.

PAINTING II

Intended grade level: 10-12

Prerequisite: Painting I with a C– or better

Length of course: 1 semester

Credit: .5

This course deals with advanced painting and drawing techniques and styles. Students will work large, in several medias and students will work on developing their own style and their own techniques. A portfolio will be developed for publishing and scholarship use. When weather permits, we will be painting and drawing outside from nature. Any student planning on a career in an art field should take this course.

PAINTING III

Intended grade level: 11-12

Prerequisite: Painting II with a C– or better

Length of course: 1 semester

Credit: .5

This course will be tailored to student-driven exploration in media of choice. This is more of an individual exploration of media and concepts. Students will create a portfolio of work and work on developing advanced skills.

PHOTOGRAPHY I

Intended grade level: 10-12

Prerequisite: 2D/3D Design with C- or better

Length of course: 1 semester

Credit: .5

This course is designed to introduce students to basic photography skills and digital imaging techniques using Adobe Photoshop 6.0. Students will work with film cameras and digital cameras. Students will learn to develop black and white photos and how to edit and print digital photos. Techniques studied will deal with the basics of how to take good photos, what makes good photos, and different styles for portrait, landscape, and artistic shots. Artistic styles will be explored by hand coloring and sepia toning black/white photos and digital imaging techniques for digital photos.

PHOTOGRAPHY II

Intended grade level: 11-12

Prerequisite: Photography I with a C-

Length of course: 1 semester

Credit: .5

This course will expand on photography and digital imaging skills learned in Photography & Digital Imaging I. students will use photos as fine art, graphic art and commercial art applications. You will also explore hand coloring of photos with oil pastels and water color. This is an advance exploration in photography with a finished portfolio by the end of class.

PHOTOGRAPHY III

Intended grade level: 12

Prerequisite: Photography II with a C-

Length of course: 1 semester

Credit: .5

This course will be tailored to student-driven exploration in cutting edge techniques of photography in the fine arts field, the digital field, and the commercial field. This is more of an individual exploration of media and concepts. Students will create a portfolio of work and work on developing advanced skills.

METALSMITHING I

Intended grade level: 10-12

Prerequisite: 2D/3D Design or Ceramics with a C-

Length of course: 1 semester

Credit: .5

Metalsmithing is a technique of creating jewelry by soldering metals together to create creative and decorative jewelry. Students will learn to create intricate jewelry out of different types of metals and they will incorporate stone, glass, and pewter. Projects will include setting stones, creating pendants, rings, pewter casting, and wire techniques used to create chains for pendants. Students will be responsible for bringing a toolbox that they can lock to keep track of their metal, stones, and tools.

METALSMITHING II

Intended grade level: 11-12

Prerequisite: Metalsmithing I with a C-

Length of course: 1 semester

Credit: .5

This course will expand on concepts mastered in Metalsmithing I by working with pewter casting in cuttlebone and plaster. You will also do lampworking, which is creating your own glass beads and cabochons. Students will refine their own individual style in working metal and glass.

METALSMITHING III

Intended grade level: 11-12

Prerequisite: Metalsmithing II with C-

Length of course: 1 semester

Credit: .5

This is an advanced course in metal, glass, and wire. Students will create miniature metal sculptures, sculptural pieces of jewelry that incorporate metal, clays, and glass. Students will learn composite work and etching. Students will also study styles of current metal smiths to gather ideas from to incorporate into their own artwork.

BUSINESS and COMPUTER TECHNOLOGY DEPARTMENT

<u>Courses</u>	<u>Prerequisite</u>	<u>Year</u>	<u>Credit</u>
Computer Apps – Word Processing	None	9-12	.5
Computer Apps – Data Management	Computer Apps — WP	9-12	.5
Introduction to Business	None	9-12	.5
Consumer & Personal Finance	None	10-12	.5
Robotics (Structures)	None	9-12	.5
Robotics (Coding)	None	9-12	.5
Accounting I	Cons. & Pers. Finance	10-12	1.0
Web Page Design	Computer Apps — WP	10-12	1.0
Web and Digital Communications	Computer Apps — WP & Web Page Design	10-12	1.0
Banking and Finance	Cons. & Pers. Finance	11-12	.5
Investing	Cons. & Pers. Finance	11-12	.5

COMPUTER APPLICATIONS - WORD PROCESSING

Intended grade level: 9-12

Prerequisite: None

Length of course: 1 semester (to be completed the same school year as Data Management)

Credit: .5

This course will apply skills to various software programs with major emphasis on Microsoft Office. The course is designed to emphasize the learning and practicing of software features rather than computer operation or keyboarding concepts. Hands-on applications will include learning skills necessary to function in a computerized work environment. Desktop Publishing and use of presentation software will be taught. Grades will be determined by daily assignments, hands-on activities and application tests.

COMPUTER APPLICATIONS - DATA MANAGEMENT

Intended grade level: 9-12

Prerequisite: Computer Applications—Word Processing

Length of course: 1 semester (to be completed the same school year as Word Processing)

Credit: .5

This course will teach the fundamentals of spreadsheet applications using Microsoft Excel and database applications using Microsoft Access. This course is designed to emphasize the learning and practicing of software features rather than computer concepts. Hands-on application will include learning skills necessary to function in a computerized work environment. Integration of applications are also reinforced and taught. Grades will be determined using daily hands-on assignments, quizzes, application tests and a final exam.

INTRODUCTION TO BUSINESS

Intended grade level: 9-12

Prerequisite: None

Length of course: 1 semester

Credit: .5

This course is designed to give students an overview of the creation and operation of a business, including the functions of product development, marketing, management, and finance. Students will have the opportunity to create a student-run business from the vision, research, and planning stage, through implementation and ongoing operation. Students will gain an understanding of how current events and the economy impact business, determine how resources should be managed to achieve business goals, and practice personal skills needed to be successful in the workplace.

CONSUMER & PERSONAL FINANCE

Intended grade level: 10-12

Prerequisite: None

Length of course: 1 semester

Credit: .5

This course meets the financial literacy graduation requirement. Students will gain an understanding of the concepts of money management. They will learn how to make informed decisions in regard to banking, savings and investing, credit, insurance, taxes and social security, spending and budget planning, consumer protection, career exploration, and post-secondary planning.

ROBOTICS (Structures)

Intended grade level: 9-12

Prerequisite: None

Length of Course: Fall Semester

Credit: .5

This course will focus on the design and construction of the physical robot. While many students may choose to be involved with the BEST Robotics club, it is not a requirement of the class. Course topics will include: Definition of a robot; evolution of robotics (why/how); current and future uses of robotics; understanding robotic components and materials; basic shop safety and etiquette; 3-D printing; design and build a robot.

ROBOTICS (Coding)

Intended grade level: 9-12

Prerequisite: None

Length of Course: Spring Semester

Credit: .5

This course will focus on the “brains” of a robot. Students will gain an understanding of the hardware, software, and coding requirements to make a robot function. While many of the students may choose to be involved with the BEST Robotics club, it is not a requirement for the class. Course topics will include: Definition of a robot; evolution of robotics (why/how); current and future uses of robotics; understanding robotic components and materials; basic shop safety and etiquette; 3-D printing; coding.

ACCOUNTING I

Intended grade level: 10-12

Prerequisite: Consumer & Personal Finance

Length of course: 2 semesters

Credit: 1

This course introduces the fundamental accounting principles and procedures used for businesses. Students will journalize transactions, prepare financial statements, process payroll, and analyze business information. Students considering majoring in business or accounting, or owning their own business, should enroll in this class.

WEB PAGE DESIGN

Intended grade level: 10-12

Prerequisite: Computer Applications - Word Processing

Length of course: 2 semesters

Credit: 1

Web Page Design will introduce students to web page programming languages and web authoring software packages. Students will develop a flowchart, planning the navigation through the site. Students will select fonts, color, and graphics to enhance the web page topic. Design concepts will be taught to present the topic in an attractive manner. Students will research web standards and security to protect the integrity of the site. Ethical and legal publication online will be taught to ensure copyright and trademark rules are followed. Publication of a web site to various browsers will display the page. Appropriate web resources and reference tools will be used to guide the students in developing the site.

WEB AND DIGITAL COMMUNICATIONS

Intended Grade Levels: 11-12

Prerequisite: Computer Applications and Web Page Design

Length of course: 2 semesters

Credit: 1

The Web and Digital Communications Project Management course provides students with the information and skills necessary for success in managing projects and operating logistical ventures in technology, business, and industry. This course covers scheduling of resources (including personnel, budget, timelines, and equipment), utilization of Gantt charts, economic principles within the workplace, and risk management. Other possible topics include developing a business plan, finance, business law, marketing and promotion strategies, problem-solving and decision-making, and building leadership skills along with video production.

BANKING AND FINANCE

Intended grade level: 11-12

Prerequisite: Consumer & Personal Finance

Length of course: 1 semester

Credit: .5

This course introduces the types of financial institutions and the services and products they offer, the American monetary system and the operation of the United States Federal Reserve, and the laws and regulations that control banks and corporations in the U.S. and worldwide. Personal financial management will be reviewed and expanded upon.

INVESTING

Intended grade level: 11-12

Prerequisite: Consumer & Personal Finance

Length of course: 1 semester

Credit: .5

This course emphasizes the formulation of business and individual investment decisions by comparing and contrasting the investment qualities of cash, stocks, bonds, and mutual funds. Students will review investment performance and analyze trends in the market. The course will teach students the importance of saving money for retirement, as well as reinforcing positive personal financial decision-making.

ENGLISH DEPARTMENT

Courses	Prerequisite	Year	Credit
English 9	None	9	1.0
English 10	English 9	10	1.0
English 11	English 10	11	1.0
English 12	English 11	12	1.0
Advanced Placement Language & Composition	Teacher approval	12	1.0

ENGLISH 9

Intended grade level: 9
 Prerequisite: English 8
 Length of course: 2 semesters
 Credit: 1

This course is designed to continue the development of English skills introduced in English 8. The year-long course will emphasize the study of short stories, poetry, and novels. Emphasis on elements of fiction, figurative language, and study of word roots, prefixes, and suffixes will prepare students for the Kansas Assessment taken during English 11. Critical thinking and writing about literature, practice in organization, and effective and correct construction of compositions will be covered. Use of standard grammar will be required in written assignments. Evaluation is based on daily work, homework, tests and participation.

ENGLISH 10

Intended grade level: 10
 Prerequisite: English 9
 Length of course: 2 semesters
 Credit: 1

This course will help us to grow as readers, writers, speakers, critical thinkers, and human beings. Together, we will explore and evaluate a number of essays, short stories, novels, dramas, song lyrics, videos, movies and poems to gain understanding of people and places that exist outside of our own experiences. Additionally, we will engage in discussion about relationships among individuals, communities, and society through lenses of language and literacy. Through a combination of individual reflection/analysis and cooperative learning, we will study how literary elements including plot, character, setting, theme, and symbolism work to create meaning, and influence interpretation.

This course will also emphasize composition to reinforce skills learned in 9th grade. Essays written in class and at home will provide us with frequent opportunities to develop our creative, practical, and technical writing skills. Also, expect quizzes on spelling and vocabulary as we move through the year.

ENGLISH 11

Intended grade level: 11

Prerequisite: English 10

Length of course: 2 semesters

Credit: 1

This course is designed to offer a study of literature and to focus on other skills essential to junior English. In particular, reading assignments will concentrate on American literature in its various forms of dramas, novels, poetry, and short stories. Writing assignments will include on-demand responses, extended essays, and the research paper required to meet the guidelines of the Senior Exit Project. Finally, other assignments will center around grammar, usage, and vocabulary to prepare students for the ACT.

ENGLISH 12

Intended grade level: 12

Prerequisite: English 11

Length of course: 2 semesters

Credit: 1

English 12 is intended to improve students' practical language skills and provide insight into American literature. Students will read American short stories, poetry, nonfiction, and novels. In addition, standard grammar skills will be emphasized and reviewed in written responses to the literature and various compositions.

ADVANCED PLACEMENT LANGUAGE AND COMPOSITION

Intended grade level: 12

Prerequisite: Teacher's approval

Length of course: 2 semesters

Credit: 1

This course is designed for college bound students. It engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Summer reading and writing assignments, which must be completed to an acceptable standard, are required before class begins in the fall. Students may elect to take the AP test in early May to earn college credit.

FAMILY AND CONSUMER SCIENCE DEPARTMENT

<u>Courses</u>	<u>Prerequisite</u>	<u>Year</u>	<u>Credit</u>
Career and Life Planning	None	9-12	.5
Human Growth & Development	None	9-12	.5
Family Studies	None	9-12	.5
Nutrition and Wellness	None	9-12	.5
Intro to Culinary Arts	None	9-12	.5
Advanced Culinary Arts	Intro to Culinary Arts	9-12	.5
Interior and Textile Design	None	10-12	.5
Career & Community Connections	3 FCS classes	11-12	1.0

CAREER AND LIFE PLANNING

Prerequisite: None
 Grade level: 9-12
 Length of Course: 1 Semester
 Credit: .5

In the Career and Life Planning course students develop skills and strategies which are helpful to becoming more focused and productive individuals. The course typically emphasizes goal setting, decision making, time management, energy and stress management, career exploration, resume and interviews, options after high school and plans for the future.

HUMAN GROWTH AND DEVELOPMENT

Prerequisite: None
 Grade level: 9-12
 Length of Course: 1 Semester
 Credit: .5

In the Human Growth and Development course, students learn about the physical, intellectual, emotional and social growth and development of infants, children, adolescence young adults and adults and their development across the life span. Students take home a baby for one weekend.

FAMILY STUDIES

Prerequisite: None
 Grade level: 9-12
 Length of Course: 1 Semester
 Credit: .5

Family Studies emphasizes building and maintaining healthy interpersonal relationships among family members and other member of society. Topics covered emphasize family structures, functions of a family unit, parenthood, dealing with crises, marriage preparation, and various stages of life.

NUTRITION AND WELLNESS

Prerequisite: None

Grade level: 9-12

Length of Course: 1 Semester

Credit: .5

This course includes a study of nutrition, food preparation, food safety, and personal overall wellness. This course also explores how to make wise nutritional choices to develop a healthy self. Students will have an opportunity to prepare healthy foods and explore various careers in the nutrition and wellness field.

INTRO TO CULINARY ARTS

Prerequisite: None

Grade level: 9-12

Length of Course: 1 Semester

Credit: .5

The students will learn basic food preparation skills. Topics covered include kitchen safety and sanitation, how to measure food correctly, use large and small kitchen equipment, knowledge of food facts, and various cooking methods. Samples prepared during lab are for tasting and evaluating. By the end of the semester, students will have gained basic food preparation knowledge and have an introduction to the food service industry.

ADVANCED CULINARY ARTS

Prerequisite: Intro to Culinary Arts

Grade level: 9-12

Length of Course: 1 Semester

Credit: .5

Students will learn more advanced food preparation skills. This class is designed to continue building on the foundation skills previously learned. By the end of the semester, students will have more familiarity or mastery of a wide variety of cuisines and culinary techniques.

INTERIOR AND TEXTILE DESIGN

Intended grade level: 10-12

Prerequisite: None

Length of course: 1 semester (fall semester, odd years only)

Credit: .5

This FACS course focuses on the study and application of Interior Design elements and architecture (Space, Line, Forms, Light, Color, Texture, and Pattern).

CAREER AND COMMUNITY CONNECTIONS

Prerequisite: 3 prior FCS classes

Grade level: 11-12

Length of Course: 2 Semesters

Credit: 1

Community Connections (semester 1 of 2) courses provide community based and school based learning experiences mainly within the Family and Consumer Sciences classroom setting. Learning goals are set by the student, teacher and community partners to create experiences and/or discussions to enhance the development of the 21st century skills, i.e. leadership, empathy, communication, problem solving, cooperation, critical thinking, and resource management and other job related skills, needed to be successful in Family and Consumer Sciences related careers.

Career Connections (semester 2 of 2) is the application level course for the learner to apply technical skills in a professional learning experience unpaid or paid, outside the traditional classroom. Career Connections provides the opportunity for the learners to focus on career related topics, team building and effectiveness in the world of work. They will also acquire job seeking, retention workplace advancement skills.

LANGUAGE ARTS DEPARTMENT

Courses	Prerequisite	Year	Credit
Debate	None	9-12	.5
Forensics	None	9-12	.5
Speech	None	9-12	.5
Theater Tech	None	9-12	.5
Intro to Journalism & Graphic Design I & II	C in previous English class	9-12	1.0
Adv. Journalism & Digital Media Design	C or above in Intro. to Journalism & Graphic Design AND Instructor permission	10-12	1.0
Public Speaking (College Cr.)	Speech, Debate or Forensics	11-12	.5

DEBATE

Intended grade level: 9-12
 Prerequisite: None
 Length of course: 1 semester
 Credit: .5

This course is designed for students who are interested in joining a team while learning about and participating in competitive debate. This involves a tremendous amount of research, self-motivation, and hard work; ideal for college bound students. Out-of-school tournament competitions are required. Varsity letters can be obtained through this course. This course will substitute for Speech; recommended as a continuation course.

FORENSICS

Intended grade level: 9-12
 Prerequisite: None
 Length of course: 1 semester
 Credit: .5

This course is designed for students who are interested in learning about and participating in competitive speech and drama activities. The different events include informative, persuasive, and extemporaneous speaking; oral interpretation of literature; dramatic, humorous, and duet acting as well as improvised duet acting. Students will select, prepare, and perform events for competition. Out-of-school tournament competitions are required. Varsity letters can be obtained through this course. This course will substitute for Speech; recommended as a continuation course.

SPEECH

Intended grade level: 9-12

Prerequisite: None

Length of course: 1 semester

Credit: .5

This course is designed to help students gain confidence in basic public speaking skills. Students will discover differing aspects of speech including interpersonal communications, mass communications, informative speaking, persuasive speaking, and extemporaneous speaking. An emphasis will be placed on real world speaking situations, organization, and delivery skills. This is a required course for graduation. Debate and Forensics are offered as alternatives for this requirement.

THEATER TECH

Intended grade level: 9-12

Prerequisite: None

Length of course: Fall semester

Credit: .5

Students will learn to operate and program the sound board and light board as well as set-building techniques. Students will use these skills to help with the fall musical production. After the musical, the students will use their skills to produce and present their own play.

INTRODUCTION TO JOURNALISM & GRAPHIC DESIGN I & II

Intended grade level: 9-12

Prerequisite: C or above in previous English course

Length of course: 2 semesters

Credit: 1

Introduction to Journalism and Graphic Design I & II is a course in the Digital Media pathway of the Kansas Career & Technical Education (CTE) “Arts, A/V Technology, and Communications” career cluster. In this yearlong course, students will be introduced to various aspects of 21st century journalism and of graphic design, as they report, write, edit, design, photograph, videotape, and publish for the school’s printed yearbook, online newspaper, and cable television channel. Within the first semester, students will learn about the history of and the changes in American journalism, the legal and ethical issues in journalism, the styles of writing (news, features, opinions, and sports), the rules of copyediting, the techniques for digital photography and videography, and the fundamental of graphic design, of photo imaging and of video editing (using Adobe InDesign, Adobe Photoshop, and Adobe Premiere). Within the second semester, students will use these basic skills in order to produce the *Mustang* yearbook and *The Hoof Print* online newspaper, and RCTV video newscast. As part of the course, students will also have the opportunity to attend workshops and to compete in Kansas Scholastic Press Association regional and state contests. Students selecting this course should have strong writing skills (with at least a C in their previous English course) and should have basic computer skills. Successful completion (C or better) in this course, plus instructor permission, is a prerequisite for enrolling in the Advanced Journalism and Digital Media Design course to complete the Digital Media pathway.

ADVANCED JOURNALISM & DIGITAL MEDIA DESIGN

Intended grade level: 10-12

Prerequisites: C or above in Introduction to Journalism & Graphic Design AND Instructor permission

Length of course: 2 semesters

Credit: 1

Advanced Journalism and Digital Media Design is a course in the Digital Media pathway of the Kansas Career & Technical Education (CTE) “Arts, A/V Technology, and Communications” career cluster. In this yearlong course, students who have satisfactorily passed the introductory course, Introduction to Journalism and Graphic Design I & II, will apply fundamental skills of 21st century journalism and graphic design and will learn advanced techniques for digital media channel. In the class, as students fulfill roles on the staffs of editors in chief, production editors, and staff members, they will complete all tasks required to produce the publications. In general, these tasks include planning the content and designs for the three media productions, selling and creating advertisements, reporting and writing articles/scripts, critiquing content, and completing other individual leadership responsibilities, depending on the position earned on staff. To complete these tasks, students will learn and will apply advanced techniques in Adobe InDesign, Adobe Photoshop, Adobe Premiere and other Adobe Creative Suite applications, as they produce the *Mustang* yearbook, *The Hoof Print* online newspaper, and RCTV video newscast. As part of the course, students will also have the opportunity to attend workshops and to compete in Kansas Scholastic Press Association regional and state contests. Students selecting this course for the first time must have passed Introduction to Journalism and Graphic Design I & II with a C or better, plus have instructor permission, to enroll and to complete the CTE Digital Media pathway. Successful completion (C or better) in this course, plus instructor permission, is a prerequisite for repeating the Advanced Journalism and Digital Media Design course.

PUBLIC SPEAKING (College Credit)

Intended grade level: 11-12

Prerequisite: Speech, Debate or Forensics

Length of course: 1 semester

Credit: .5

Increases individual understanding of the principles and applications of public speaking through analysis and practice in the areas of communication theory, topic selection, audience analysis, research, use of support materials, content organization, presentation, and evaluation of a variety of speeches.

FOREIGN LANGUAGE DEPARTMENT

<u>Courses</u>	<u>Prerequisite</u>	<u>Year</u>	<u>Credit</u>
Latin I	None	9-12	1.0
Latin II	Latin I	9-12	1.0
Spanish I	None	9-12	1.0
Spanish II	Spanish I	9-12	1.0
Spanish III	Spanish II	11-12	1.0

LATIN I

Intended grade level: 9-12
 Prerequisite: None
 Length of course: 2 semesters
 Credit: 1

Students will learn the fundamentals of the Latin language. Focus will be on understanding of basics of Latin through the study of the Roman world.

LATIN II

Intended grade level: 9-12
 Prerequisite: Latin 1
 Length of course: 2 semesters
 Credit: 1

Students will learn the advanced fundamentals of the Latin language. Focus will be on understanding of basics of Latin through the study of the Roman world.

SPANISH I

Intended grade level: 9-12
 Prerequisite: None
 Length of course: 2 semesters
 Credit: 1

This course is an intensive introduction to the Spanish language. It deals with extensive vocabulary and grammar skills in the present tense. Geography, history and the culture of Mexico are also explored.

SPANISH II

Intended grade level: 9-12
 Prerequisite: Spanish I (both semesters)
 Length of course: 2 semesters
 Credit: 1

This course is a continuation of the Spanish language. Emphasis is on vocabulary skills with exploration of past and future tenses. In addition, this course focuses on reading comprehension through the study of four novellas. The culture and geography of Spain, Cuba, and Mexico are

also explored.

SPANISH III

Intended grade level: 11-12

Prerequisite: Spanish I, Spanish II

Length of course: 2 semesters

Credit: 1

Spanish III courses focus on having students express increasingly complex concepts, both verbally and in writing, while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations.

MATHEMATICS DEPARTMENT

<u>Courses</u>	<u>Prerequisite</u>	<u>Year</u>	<u>Credit</u>
Algebra I		8-12	1.0
Applied Math	Teacher approval	9-10	1.0
Geometry	Algebra I	9-12	1.0
Algebra II	Algebra I & Geometry	9-12	1.0
Technical Math	Algebra I & Geometry	11-12	1.0
Advanced Math	Algebra II	10-12	1.0
Adv. Placement Calculus	Advanced Math	11-12	1.0
College Algebra (College Cr.)	Algebra II	11-12	.5
Basic Statistics (College Cr.)	College Algebra	11-12	.5

ALGEBRA I

Intended grade level: 8-12

Prerequisite: Pre-Algebra or Recommendation by Jr. High Math Teacher

Length of course: 2 semesters

Credit: 1

This first year algebra course is designed to develop problem solving ability. Students who elect to take this course should possess good computational skills. Students will gain proficiency in solving equations or inequalities in one or two variables, finding equations of lines, factoring polynomials, and solving word problems that involve distance, coin, age, investment, etc. Students will also gain proficiency in statistics, probability, and right triangle trigonometry. Homework is assigned daily.

PRE-ALGEBRA

Intended grade level: 9

Prerequisites: Teacher approval

Length of course: 2 semesters

Credit: 1

Pre-Algebra increases a student's foundational mathematics skills and prepares them for Algebra 1 by covering a variety of topics. Those may include but are not limited to properties of rational numbers (i.e., number theory), ratio, proportions, estimation, exponents and radicals, the rectangular coordinate system, set and logic, formulas, and solving first-degree equations and inequalities.

GEOMETRY

Intended grade level: 9-12

Prerequisite: Algebra I

Length of course: 2 semesters

Credit: 1

The main objective of a geometry course is to develop the habit of clear and logical thinking. Students will be introduced to the concept of proofs where statements and reasons are supplied to reach a given conclusion. This course also deals with congruence/similarity, finding the area/volume of polygons, logic, and measurement. Homework will be assigned daily.

ALGEBRA II

Intended grade level: 9-12

Prerequisite: Algebra I and Geometry

Length of course: 2 semesters

Credit: 1

After reviewing and maintaining the basic skills of Algebra I, this course examines more advanced areas and builds on the concept of functions and relations. Topics to be explored include: exponential/logarithmic functions, complex numbers, series/sequences, probability, trigonometric functions, and the conic sections. Also included are graphing/problem solving. Homework will be assigned daily.

TECHNICAL MATH

Intended grade level: 11-12

Prerequisite: Algebra I & Geometry

Length of course: 2 semesters

Credit: 1

Technical Mathematics courses extend students' proficiency in mathematics, and often apply these skills to technical and/or industrial situations and problems. Technical Mathematics topics may include but are not limited to rational numbers; systems of measurements; tolerances; numerical languages; geometry; algebra; statistics; and using tables, graphs, charts, and other data displays. Technology is integrated as appropriate.

ADVANCED MATH

Intended grade level: 10-12

Prerequisite: Algebra II

Length of course: 2 semesters

Credit: 1

Advanced Math is a course designed for the college-bound student. In this course, students will review many of the topics covered in Algebra II plus the introduction of trigonometry. Other chapters on statistics, probability, and introductory calculus provide a variety of options in structuring the course. Homework will be assigned daily.

ADVANCED PLACEMENT CALCULUS

Intended grade level: 11-12
Prerequisite: Advanced Math
Length of course: 2 semesters
Credit: 1

Students will receive a thorough background to differential and integral calculus. Students will know the rules for differentiation/integration and be able to apply these rules to application problems. Homework will be assigned daily.

COLLEGE ALGEBRA (College Credit)

Intended grade level: 11-12
Prerequisite: Algebra II
Length of course: 1 semester
Credit: .5

College Algebra is intended as a comprehensive, thorough study of the fundamental laws of algebra, exponents, linear and quadratic equations, polynomial and rational inequalities, system of equations, radicals and radical equations, functions and graphing, polynomials and polynomial equations, modeling, logarithms, complex numbers, augmented matrices, determinants, regression, analysis of all kinds of graphs, linear systems in two or three variables, and applications of most of the topics listed above, plus many other topics as time permits. NOTE: A graphing calculator is required for this course.

BASIC STATISTICS (College Credit)

Intended grade level: 11-12
Prerequisite: College Algebra
Length of course: 1 semester
Credit: .5

This course is an introductory study of the fundamentals of modern statistics and probability. The main topics covered include descriptive methods, inductive statistics, probability, estimations, tests of hypotheses, linear regression, linear correlation coefficients, Chi-Square tests of independence and goodness of fit, along with other selected topics as time allows. NOTE: A graphing calculator is required for this course.

MUSIC DEPARTMENT

<u>Courses</u>	<u>Prerequisite</u>	<u>Year</u>	<u>Credit</u>
Band	Jr. High Band and/or Instructor Permission	9-12	1.0
Choir	None	9-12	1.0
Contemporary Music	None	9-12	.5
Social and Cultural History of Rock and Roll	None	10-12	.5
Select Mixed Choir	Audition & enrollment in choir	9-12	0
Jazz Band	Audition & enrollment in band	9-12	0
Adv. Musicianship	Instructor Permission	11-12	1.0

BAND

Intended grade level: 9-12

Prerequisites: Junior High Band and/or Department Approval

Length of course: 2 semesters

Credit: 1

High School Band is a performance-oriented group. Students will demonstrate their proficiency in pep band music, marches, concert styles, and popular music. Activities will include marching band, pep band, concerts, and contests.

CHOIR

Intended grade level: 9-12

Prerequisite: None

Length of course: 2 semesters

Credit: 1

The high school concert choir is a performance-based group. This course is designed for students looking to improve their singing voice and understanding of music. Students will be expected to perform at all concerts, contests, and festivals as a part of their grade. Students will develop healthy singing techniques, practice music literacy skills, as well as cultivate an appreciation for various styles of choral music.

CONTEMPORARY MUSIC

Intended grade level: 9-12

Prerequisite: None

Length of course: 1 semester

Credit: .5

A course for everyone who enjoys music. The course will focus on popular music from the last

50 years as a model to create the next big hit! Ukulele, guitar, drums, computer technology and voice are possibilities to be utilized to record, edit, produce, explore and create music in multiple genres.

SOCIAL AND CULTURAL HISTORY OF ROCK AND ROLL

Intended grade level: 10-12

Prerequisites: None

Length of course: 1 semester

Credit: .5

Social and Cultural History of Rock and Roll is a course for 10-12th grade students. Through listening, analysis, discussion, music and film, students will explore the music, culture and society of the day. The course begins with an overview of ancestors and influences: blues, boogie-woogie, jazz, swing, country & western, and gospel. We will study the musical and social trends of the 1960s and the changes in rock and roll music during the seventies, eighties and nineties. The course will culminate in an exploration of today's current musical trends and icons including rap and hip hop.

SELECT MIXED CHOIR (Offered only during Zero Hour)

Intended grade level: 9-12

Prerequisites: Audition, enrollment in choir

Length of course: 2 semesters

Credit: 0

This ensemble is performance-based, selected by audition and offered during zero hour. Students will be responsible for their own transportation to rehearsals. Students eligible to audition must be enrolled in high school choir (1S)- unless there is an unavoidable class conflict that is communicated to the teacher. Students must be dependable, disciplined, committed, and goal-oriented. A wide variety of music will be studied for performances at concerts, contests, and community affairs. Students will also have the opportunity to perform as solos or small ensembles.

JAZZ BAND (Offered only during Zero Hour)

Intended grade level: 9-12

Prerequisites: Instructor permission (by audition), enrollment in band

Length of course: 2 semesters

Credit: 0

This course is designed for the more advanced music student desiring an experience in the indigenous American music of jazz. The student will perform in both concert and contest situations and will learn basic jazz forms and improvisation.

ADVANCED MUSICIANSHIP

Intended grade level: 11-12

Prerequisites: Instructor permission

Length of course: 2 semesters

Credit: 1

This course is designed for the advanced music student wishing to continue with music beyond high school. Included in the course of study will be advanced instrument/voice study, music theory, conducting, music history, and listening.

PHYSICAL EDUCATION DEPARTMENT

<u>Courses</u>	<u>Prerequisite</u>	<u>Year</u>	<u>Credit</u>
PE/Health 9	None	9	1.0
Dance	None	9-12	1.0
Aerobics	PE/Health 9	10-12	1.0
Strength & Conditioning	PE/Health 9	10-12	1.0
Jr/Sr Leadership	None	11-12	1.0

PE/HEALTH 9

Intended grade level: 9
 Prerequisite: None
 Length of course: 2 semesters
 Credit: 1

This course will be a continuation of Physical Education 8. Students will develop greater skill in and understanding of physical fitness methods and techniques. The course will cover areas of sports, both individual and team and lifetime activities. This course is also designed to cover the entire spectrum of health. Units of study include: personal health and fitness, mental health and stress management, nutrition, substance abuse, family and social health, safety and emergency care, controlling and preventing diseases including AIDS and sexually transmitted diseases, and consumer health. Evaluation includes unit tests, projects, daily activity grades, and heart rate monitor logs.

DANCE

Intended grade level: 9-12
 Prerequisite: None
 Length of course: 2 semesters
 Credit: 1

Dance provides students with experiences in several dance forms (i.e swing, waltz, modern, jazz, ballet, tap, etc.). Beginning interest through advanced interest levels are welcome (beginning student instruction will be introductory in nature while the more advanced students will concentrate on improving technique and may offer or require experience in choreography and dance evaluation. Student goals toward personal fitness and class performances (fall play, recital opportunities, select game night performances) are expectations of students enrolled in Dance.

AEROBICS

Intended Grade Level: 10-12
 Prerequisite: PE/Health 9 with B average
 Length of course: 2 semesters
 Credit: 1

This is an upper level class in which students should expect to be very active. Students will be exposed to, but not limited to, step and floor aerobics, resistance ball training, weight training, circuit training, social dance, line dance, and self-defense. Students will be required to complete

and create their own dance project and diet type analysis. This class will provide students with fitness training and knowledge about body composition, weight management, stress management, and nutrition.

STRENGTH AND CONDITIONING

Intended grade level: 10-12

Prerequisite: PE/Health 9 with B average

Length of course: 2 semesters

Credit: 1

This course is designed to give students knowledge in the fundamental skills for weight lifting. Course content includes learning to set up different lifting programs to build speed, power, strength, and endurance.

JR/SR LEADERSHIP

Intended grade level: 11-12

Prerequisite: None

Length of course: 2 semesters

Credit: 1

This is a community-based class where students learn service leadership skills through involvement in the community and schools. Activities include volunteer work at the Westy Care Home, volunteering at the elementary schools, and other classroom activities that enrich leadership qualities.

SCIENCE DEPARTMENT

<u>Courses</u>	<u>Prerequisite</u>	<u>Year</u>	<u>Credit</u>
General Science	None	9-12	1.0
Biology	Science 8 or permission	9-10	1.0
Chemistry	Algebra I and Biology	10-12	1.0
Anatomy & Physiology	Biology	10-12	1.0
Adv. Placement Biology	Biology	11-12	1.0
Physics	Algebra II or Permission	11-12	1.0

GENERAL SCIENCE (INTEGRATED SCIENCE)

Intended grade level: 9-12

Prerequisite: none

Length of Course: 2 semesters

Credit: 1

This course will provide opportunities for students to develop and communicate an understanding of earth and space science, physics, and chemistry through lab-based activities, mathematical expressions, and concept exploration. Lab work will allow students to observe and analyze situations as they relate to physical law and concepts.

BIOLOGY

Intended grade level: 9-10

Prerequisite: Science 8 or permission

Length of course: 2 semesters

Credit: 1

This is a general lab course covering major areas of the life science. Major areas of emphasis will include scientific methods of problem solving, cell structure and function, botany, genetics, ecology, and basic human anatomy/physiology. Lab investigations will play a major role in this course. Students will demonstrate their knowledge by presenting individual and group projects each semester.

CHEMISTRY

Intended grade level: 10-12

Prerequisite: Algebra I and Biology

Length of course: 2 semesters

Credit: 1

This course is recommended for college-bound students. Contents of the course include the study of matter, atomic theory, stoichiometry, gas laws, and descriptive chemistry. Laboratory experiences are a significant portion of the grade, and written/ oral communication, and problem-solving skills are emphasized. This course integrates skills learned in a number of core curricular areas.

ANATOMY AND PHYSIOLOGY

Intended grade level: 10-12

Prerequisite: Biology

Length of course: 2 semesters

Credit: 1

Students enrolling in this course should have the intention of using the biological sciences for college or career work. An anatomy and physiology textbook is available and suggested as a reference and source of study. Topics covered will include an introduction to anatomical terminology as well as an in depth study of the major organ systems, with special emphasis placed on the skeletal and muscular systems. Laboratory activities will include dissection of a cat and some major organs.

ENVIRONMENTAL SCIENCE

Intended grade level: 10-12

Prerequisite: Biology

Length of course: 2 semesters

Credit: 1

Environmental Science examines the mutual relationships between organisms and their environment. In studying the interrelationships among plants, animals and humans, this course will cover the following subjects: photosynthesis, recycling and regeneration, ecosystems, population and growth studies, pollution, and conservation of natural resources.

ADVANCED PLACEMENT BIOLOGY

Intended grade level: 11-12

Prerequisite: C+ in Biology or permission

Length of course: 2 semesters

Credit: 1

Students enrolling in this course should have the intention of using the biological sciences for college or career work. Because it is an advanced placement class, students will be expected to meet high levels of performance. Major areas of emphasis will include cell biology, zoology classification, ecology, genetics, and evolution. Emphasis will be placed on doing laboratory and field investigations including DNA fingerprinting, demonstrating photosynthesis/respiration, and an outdoor ecological study. At the conclusion of the spring semester, students will take the AP exam to receive college credit for this class.

PHYSICS

Intended grade level: 11-12

Prerequisite: Algebra II

Length of course: 2 semesters

Credit: 1

Physics is the study of the nature of matter and energy and their relationships. Emphasis will be on the following subjects: mechanical dynamics, universal gravitation, wave properties, sound, light, electricity/magnetism, and modern physics. Students will develop problem solving skills while investigating these topics through a variety of methods. This course relies heavily on the application of algebraic methods, written/oral communication, and laboratory skills.

BIOTECHNICAL ENGINEERING

Intended grade level: 11-12

Prerequisites: Biology, Chemistry, and Anatomy and Physiology

Length of course: 2 semesters

Credit: 1 (elective credit)

Students will have the opportunity to develop projects that are responsive to real-world problems, using solutions that depend on biological technologies by learning the techniques, strategies and vocabulary related to the engineering of synthetic biological systems. This subject will provide an engaging introduction for would-be biological engineers.

MEDICAL TERMINOLOGY

Intended grade level: 10-12

Prerequisites: Biology, Chemistry, and Anatomy and Physiology

Length of course: 1 semester

Credit: .5 (elective credit)

Healthcare providers use specialized medical terminology when communicating with one another. This terminology is familiar to most professionals who work in health care and allows them to communicate more efficiently on a daily basis. As such, a course in medical terminology helps prepare students who plan to work in health care and related industries. Most classes are organized according to the systems of the human body, such as the nervous system and circulatory system, and students learn the ways in which medical terms relate to their anatomical counterparts.

SOCIAL SCIENCE DEPARTMENT

<u>Courses</u>	<u>Prerequisite</u>	<u>Year</u>	<u>Credit</u>
World History	None	10	1.0
Current Issues	None	10-12	.5
American History	None	11	1.0
United States Government	None	12	1.0

WORLD GEOGRAPHY AND EVENTS

Intended grade level: 9
 Prerequisite: None
 Length of Course: 1 semester
 Credit: .5 elective credit

World Geography courses provide students with an overview of world geography, but may vary widely in the topics they cover. Topics typically include the physical environment; the political landscape; the relationship between people and the land; economic production and development; and the movement of people, goods, and ideas.

ECONOMICS

Intended Grade Level: 10-12
 Prerequisites: None
 Length of Course: 1 semester
 Credit: .5 elective credit

Economics courses provide students with an overview of economics with primary emphasis on the principles of microeconomics and the U.S. economic system. These courses may also cover topics such as principles of macroeconomics, international economics, and comparative economics. Economic principles may be presented in formal theoretical contexts, applied contexts, or both

WORLD HISTORY

Intended grade level: 10
 Prerequisite: None
 Length of course: 2 semesters
 Credit: 1

This course focuses on the major people, events and trends of world history during the Modern Era (Renaissance to Present Day). Special emphasis is placed on the benchmarks and indicators for World History, Geography, and Economics as dictated by the Kansas Department of Education. The State of Kansas will assess student knowledge of these areas during the spring semester of their 11th grade year.

CURRENT ISSUES

Intended grade level: 10-12
 Prerequisite: None

Length of course: 1 semester
Credit: .5

This course focuses on prominent American issues and also includes international relations. Students will learn background information necessary for understanding all aspects of contemporary issues. Classroom activities will focus on guided discussion, debate, research, and tracking news stories online

AMERICAN HISTORY

Intended grade level: 11
Prerequisite: None
Length of course: 2 semesters
Credit: 1

The first semester students will study the following: A survey of U.S. history from its European beginnings to the Civil War. The changing configurations of American culture and its modes of expression, religion, politics, and literacy. Study the rise of Federalists, War of 1812 and the emergence of the Jacksonian Movement. Special emphasis will be given to economic, political, and social forces from colonial times to the Civil War. The second semester students will study the following: A survey of United States history from Reconstruction through the present. The changing configurations of American culture and its modes of expression, religion, politics, and literature. Emphasis is placed on the changing role of the government on the lives of people and on the changing position of the United States in world affairs. Study the impact of industrialism, imperialism, two world wars, and the cold war on the policies of the United States.

UNITED STATES GOVERNMENT

Intended grade level: 12
Prerequisite: None
Length of course: 2 semesters
Credit: 1

The first semester, students will be given the opportunity to study the political arena and public affairs of the national government of the United States. Examine the development of the constitutional principles and issues such as civil liberties, the role of political parties, and the structure and functioning of the legislative, executive, and judicial branches of the national government of the United States. Second semester is designed to provide students with the opportunity to study the political area on a state and local level. Examine the interrelationships between the federal, state and local branches of government. Discuss current events as they relate to state and local government entities. Examine the impact of government on daily life. Provide educational basis from which students might learn to access on a state and local level.