



Beardstown High School  
Course Selection Guide

Welcome to Beardstown High School! The following document will assist you in determining what courses we offer at the high school in addition to policies that govern various programs that we offer our students at the high school. This document is updated every year to reflect any changes in course offerings or policy changes. We hope that Beardstown High School can meet the needs of your students and that we can help prepare them for whatever path they choose after high school.

Administration

Joshua Sorrells.....High School Principal

Chad Beam.....Asst. High School Principal

Nathan Theis.....Asst. Middle School Principal

Guidance Office

Ashley Eckert.....Academic Advisor  
High School

Patrick Wildman.....School Counselor  
Junior High/Middle School

## Graduation Requirements - Total credits needed to graduate - 24.5

### Credit Breakdown:

- English 4 Credits
- Math 3 Credits, including a Geometry based course
- Science 3 Credits, including Biology
- Social Studies 2.5 Credits, including Civic/Economics (1/2 credit)  
US History (1 Credit)  
Social Studies Elective (1 credit)
- Computers 1 Credit
- Health 1/2 Credit
- Resource Mgt. 1/2 Credit
- Dr. Ed 1/2 Credit
- PE 3.5 Credits
- Voc/FA/FL 3 Credits
- Electives 3 Credits

### Early Graduation Procedures

Students seeking to graduate in less than four years shall complete all graduation requirements. Students/Parents must schedule an appointment with the Guidance Office during their junior year to discuss early graduation. Students must write a letter to the school board explaining their reasons for graduating early and what they plan to do after graduation. Students must make their intentions known by September 1<sup>st</sup> of their Senior year (6th semester) with BOE approval done at the September BOE meeting.

### Dual Credit

Students enrolled in the following courses may earn college credits through Lincoln Land Community College. These course are taught by Beardstown faculty and the content will mirror what is taught in the corresponding college course. Students must take placement testing if they are taking an English or Math course.

- Music Appreciation Lincoln Land MUS 104
- Music in America Lincoln Land MUS 108
- Construction A Lincoln Land BDM 102
- US History Lincoln Land HIS 111 &112
- Composition I/II Lincoln Land ENG 101 & 102
- Drafting CAD I Lincoln Land BDM 112

Students will not have a special dual credit designation on their transcript and will be responsible for requesting transcripts from the college issuing that credit.

## Advanced Placement Courses & Exams

The AP® is a worldwide program sponsored by The College Board. AP® courses are demanding courses taught at a college-level. Beardstown High School offers AP US History, AP Calculus AB, AP World History, AP European History, and AP Music Theory.

BHS students enrolled in AP classes are strongly encouraged to take the AP exam in May. Students are responsible for indicating their intention to take the AP exam and pay the exam fee. Exams are ordered by the AP coordinator in mid-February. The nonrefundable exam fees are due prior to exams being ordered.

Enrollment in an AP course is not required for taking an AP exam. Course descriptions and sample exams are available at [www.apcentral.collegeboard.com](http://www.apcentral.collegeboard.com). Students wishing to take exams for courses BHS does not offer must contact Mrs. Eckert by October 15th to request an exam be ordered.

Students seeking college credit through their AP grades should note that each college determines the nature and extent of its policies for awarding advanced placement, credit, or both. Students can find information in a college's catalog or on its website, or by using the AP Credit Policy Search at [www.collegeboard.com/ap/creditpolicy](http://www.collegeboard.com/ap/creditpolicy).

## APEX Courses

Students may take a maximum of two online classes through APEX Learning Systems. A variety of courses are offered and the student should discuss their options with a counselor before signing up. Courses through APEX will give a credit in the corresponding subject area, however these courses will not count toward the students GPA or Class Rank. These courses are paid by the school and the student pays no fee unless they go over the maximum of two per year. Students must sign an agreement stipulating to their use of the APEX courses to ensure that their use is fair for everyone.

## PE Waiver Exemption

Juniors and Seniors with two credits of PE have the option of waiving out of PE during their 11 and 12<sup>th</sup> grade years. In order to take advantage of this waiver, students must be participating in a school sponsored sport. Waiver may be granted for a semester or for a year, depending on the nature of the sport. If a student is unable to participate in said sport they will be put back into a PE class for that semester or year. Students must complete a PE Waiver Application during course registration or at the beginning of the school year.

Course Descriptions Start on Next Page

## AGRICULTURE

<u>Title</u>	<u>Prerequisite</u>	<u>Credit</u>	<u>GL</u>
Introduction to Ag	None	1.00	9-12
Ag Power	Intro to Ag	1.00	10-12
Physical Science in Ag	None	1.00	10-12
Natural Resources	Intro to Ag	0.50	10-12
Environ Sci Ag	Intro to Ag	0.50	10-12
Horticulture	None	1.00	10-12
Physical Sci in Ag	None	1.00	10-12
Basic Animal Sci	Intro to Ag	0.50	10-12
Ag Bus Management	Intro to Ag	0.50	10-12
Basic Ag Mechanics	None	0.50	10-12

**Introduction to Agriculture:** Major units of instruction include agricultural research, soil science, advanced plant science, biotechnology, advanced animal science. Applied science and math skills and concepts will be stressed throughout the course as they relate to each area. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

**Agriculture Power:** This laboratory course is designed to provide students with introductory level experiences in selected major areas of agricultural mechanics technology which may include wood working, agricultural structures, electrical wiring, electric arc welding, oxy/fuel cutting and welding processes, and power equipment operation and maintenance. Learning activities include information, skill development and problem solving. Classroom and laboratory activities are supplemented through FFA supervised agricultural experiences, leadership programs and activities. Prerequisites – Intro to Ag

**Agriculture Science:** This course builds on basic skills and knowledge gained in the Introduction to the Agricultural Industry course. Major units of instruction include agricultural research, soil science, advanced plant science, biotechnology, advanced animal science. Applied science and math skills and concepts will be stressed throughout the course as they relate to each area. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

**Natural Resources:** This course introduces conservation management and maintenance of natural resources and good stewardship of air, soil, water, land, fish, and wildlife resources for economic, recreation, and health purposes. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities. Prerequisites – Intro to Ag.

**Environmental Ag Science:** This course is designed as a component of one of the pathways in the Environmental Systems Pathway. The course delves into the environment, natural resources, ecosystems, soils, land use, chemicals in the environment, and water and air quality. After completing the course, the student should be aware of issues in our society relating to environmental concerns as well as land use and waste management. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities. Prerequisites – Intro to Ag.

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

**Physical Science in Agriculture:** This laboratory course is designed to prepare students to apply scientific knowledge to current applications in physical science as it relates to agricultural practices. Students shall become oriented to the comprehensive program of agricultural education, learn to work safely in the agriculture lab and work sites, demonstrate selected competencies in leadership through the FFA and agricultural industry organizations, and develop plans for a supervised agricultural experience program. Students will identify the processes of scientific research, demonstrate how to summarize research data and make reports of research findings.

**Basic Animal Science:** This course will develop students' understanding of the livestock (beef, dairy, sheep, goats, and swine), poultry, and large (equine) animal industry. Topics of instruction include scientific investigations, genetics, animal anatomy and physiology, animal nutrition, animal reproduction, animal health, and meat science. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE). Prerequisites - Intro to Ag

**Ag Business Management:** This course will provide students with the basic knowledge and skills necessary to manage personal finances and develop into a successful entrepreneur and/or businessperson. Instructional units include; business ownership types, starting an agribusiness, managing and operating an agribusiness, financing an agribusiness, managing personal finances, record keeping and financial management of an agribusiness, local, state, and federal taxes, agricultural law, and developing employability skills. Student skills will be enhanced in math, reading comprehension, and writing through agribusiness applications. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration, and reinforcement of academic concepts.

Prerequisites - Intro to Ag

**Basic Ag Mechanics:** In this course, theory and hands-on experiences provide opportunities for students to develop basic knowledge and skills in agricultural mechanics. Instructional areas include the basic fundamentals of maintaining and repairing small gasoline engines, basic electricity, welding, construction, cold metal work, and operating agricultural equipment safely. Improving workplace and computer skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. Prerequisite - None

## ART

<u>Title</u>	<u>Prerequisite</u>	<u>Credit</u>	<u>GL</u>
Art I	None	0.5	9-12
Art II	Art I	0.5	10-12
Ceramics	None	0.5	10-12
Crafts	None	0.5	9-12
Drawing	Art I	0.5	11-12
Painting	None	0.5	9-12

**Art I:** Art I is a basic studio course utilizing the elements and principles of art awareness under laboratory conditions. Students acquainted with a number of two-dimensional media. Program content includes drawing, color theory, perspective, composition, watercolor, and some art history.

**Art II:** Art II is an advanced studio course that provides the students with in-depth experiences in drawing, printing, and sculpture.

**Ceramics:** Ceramics is a studio course designed to serve and provide students with the basic techniques and understanding of clay as an art medium. Students will focus on the 3D media involving sequential and series pieces by hand and on potter's wheel. Students will become familiar with the history of ceramics.

**Crafts:** Crafts is a studio course, which includes a basic understanding of techniques in a variety of decorative and art crafts such as: weaving, batik, macramé, copper enameling, string art, kite-construction, and decoupage.

**Drawing:** This course offers exposure to many drawing techniques and processes. Each student will complete a series of original drawings in media areas that include pencil, charcoal, ink and pastel. Subject areas include life perspective with landscape, face and figure study. During second quarter, the student investigates pen and ink, watercolor, scratchboard. The student has a greater choice in the selection of the subject.

**Painting:** Studies the language of painting through color, form, materials, and techniques. Aspects of traditional and modern pictorial composition are studied including proportion, space, and color theory through a representation of a variety of subjects.

## BUSINESS

<u>Title</u>	<u>Prerequisite</u>	<u>Credit</u>	<u>GL</u>
Digital Graphics	None	0.5	10-12
Business Skills I	None	0.5	10-12
Business Skills II	Bus. Skills I	0.5	10-12
Computer Concepts	None	1.0	9-12
Software Applications	None	1.0	9-12
Business Law	None	0.5	10-12
Personal Finance	None	0.5	11-12
Accounting	None	0.5	10-12

**Digital Graphics:** This course is an overview of the basic features and processes involved in digital graphics such as the fundamentals of digital photography (including photo editing), video capture, graphic design, and more. This is a project based course which will result in students creating a portfolio of their digital work in the form of an online blog.



**Business Skills I:** This orientation-level course will provide an overview of all aspects of business marketing and management, including the concepts, functions, and skills required for meeting the challenges of operating a business in a global economy. Topics covered will include the various forms of business ownership, including entrepreneurship, as well as the basic functional areas of business (finance, management, marketing, administration and production). Students will be introduced to a wide range of careers in fields such as accounting, financial services, information technology, marketing, and management. Emphasis will be placed on using the computer while studying applications in these careers along with communication skills (thinking, listening, composing, revising, editing, and speaking), math and problem solving. Business ethics as well as other workplace skills will be taught and integrated within this course. This course is not intended to meet the consumer education requirement, but rather to provide preparation for the skill level courses that make up the Business, Marketing and Management occupations programs.

**Business Skills II:** Business Technology and Procedures is a course that prepares students for entry level employment in a technology-based office setting. Integrated software applications will be included in this course. Instruction will focus on office etiquette, office management, telephone and communications procedures, time management, records management, and proper business behavior and attire. Students will perform clerical duties, create, edit and correct documents, records and files, perform information processing activities (e.g. spreadsheets, database entry, desktop publishing) and prepare documents using presentation software. Students will discuss appropriate procedures for receiving visitors, patients or clients, and organize, schedule and plan meetings. In addition, students will file materials manually and electronically, make travel arrangements, perform financial activities, process mail, transmit messages electronically, and maintain office supplies and equipment. Students will organize and plan office activities, compose and distribute meeting notes and reports, answer routine correspondence, input information from voice recordings; conduct research using the intranet and/or internet, and supervise and train other employees. Students will apply proper grammar, punctuation, spelling and proofreading skills. Accuracy will be emphasized. Students will apply new skills as well as skills learned in other courses to complete a series of realistic office assignments or participate in an office work based learning experience. Workplace skills as well as communication skills (thinking, listening, composing, revising, editing, and speaking) will be taught and integrated throughout this course.

**Computer Concepts:** This course takes a wide lens on computer science by covering topics such as programming, physical computing, and data.

**Software Applications:** This course is designed to explore a variety of computer science topics. The course will also include Microsoft WORD, EXCEL, and POWERPOINT. Possibly the GOOGLE APPS will be used for some assignments.

**Business Law:** This course looks at the regulations and ethical issues that govern the everyday transactions in today’s modern business world.

**Personal Finance:** Is a comprehensive, turnkey course that features video lessons taught by Dave Ramsey and his team of experts. Each of the 12 chapters cover important money topics that build financial confidence and inspire hope in the lives of students for a better financial future.

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

## ENGLISH

<u>Title</u>	<u>Prerequisites</u>	<u>Credit</u>	<u>GL</u>
English I	None	1.0	9
English I CE	None	1.0	9
English II	English I	1.0	10
English II CE	English I CE	1.0	10
English III	English II	1.0	11
English III CE	English II CE	1.0	11
English IV	English III	1.0	12
English I-IV Skills	Teacher Placement	1.0	9-12
Composition I/II	English I-III, Senior Status	1.0	12

**English I:** This is a freshman level English course which teaches students the use of proper grammar and vocabulary. Regular vocabulary units are a require part of this course, in addition students will be exposed to various types of writing, including poetry, and fiction/non-fiction works.

**English I CE:** This is an advanced freshman level English course which teaches students the use of proper grammar and vocabulary. Regular vocabulary units are a require part of this course, in addition students will be exposed to various types of writing, including poetry, and fiction/non-fiction works. Additional work will be assigned as the teacher sees fit.

**English II:** The class primarily focuses on the four categories of the English Common Core Standards: reading, writing, speaking and listening, and language. Students read several examples of literature including fiction, nonfiction, and poetry. Literary elements that relate to these three categories are applied as well. Although reading is a focus, writing is also a component of English II. Different writing styles including narrative, expository, and persuasive essays will all be explored. Speaking, listening, and language skills are utilized throughout several units over the course of the semester.

**English II CE:** This is an advanced sophomore level English course. The class primarily focuses on the four categories of the English Common Core Standards: reading, writing, speaking and listening, and language. Students read several examples of literature including fiction, nonfiction, and poetry. Literary elements that relate to these three categories are applied as well. Although reading is a focus, writing is also a component of English II. Different writing styles including narrative, expository, and persuasive essays will all be explored. Speaking, listening, and language skills are utilized throughout several units over the course of the semester.

**English III:** This is a junior level English course. This is a writing intensive course that exposes students various types of genres of writing. This course also requires that students develop critical and analytical thinking skills in order to evaluate specific types of writing and authored works. American literature will also be covered as part of this course

**English III CE:** This is an advanced junior level English course. This is a writing intensive course that exposes students various types of genres of writing. This course also requires that students develop critical and analytical thinking skills in order to evaluate specific types of writing and authored works. American literature will also be covered in this course.

**English IV:** This is a senior level course that incorporates regular vocabulary and writing assignments into a student coursework. This course also examines the impact of British literature on today's literary world.

**English I-IV Skills:** These courses mimic what is taught in each grade level English course, they are reserved for students with special education accommodations.

**Composition I/II:** This is a dual credit senior level course through Lincoln Land Community College. This course is designed to mimic the material taught in the introductory English courses taught at the college level. This course is considered writing intensive and fast paced.

### ESL (ENGLISH AS A SECOND LANGUAGE)

<u>Title</u>	<u>Prerequisite</u>	<u>Credit</u>	<u>GL</u>
ESL I	Teacher Placement	1.00	9-12
ESL II	Teacher Placement	1.00	9-12
ESL III	Teacher Placement	1.00	9-12
ESL IV	Teacher Placement	1.00	9-12
ESL Resource	Teacher Placement	1.00	9-12
ESL Orientation	Teacher Placement	1.00	9-12
English Fundamentals	Teacher Placement	1.00	9-12

**ESL I:** This course examines many components of the language proficiency that English language learners need to communicate with the outside world.

**ESL II:** This course examines many aspects of the challenges faced by English language learners, this course builds on skills learned in ESL I.

**ESL III:** This course seeks to broaden the study of English with greater emphasis on reading and writing skills and academic vocabulary that will help students have a general view of the English language. This course builds on skills from ESL II.

**ESL IV:** This course seeks to prepare students for placement into English Fundamentals, mainstream English courses and aims to broaden the students study of vocabulary, grammar, and spelling.

**ESL Resource:** This course aims to assist students in the completion of homework in other courses through explanation of directions and/or skills and extra time. Course is also designed to assist in the social/emotional adjustment to life at BHS.

**ESL Orientation:** This class is designed to introduce students new to the United States to the educational, cultural, and societal expectations that are appropriate to people living within the United States.

**English Fundamentals:** is a yearlong course designed to prepare the student for placement into mainstream English courses, to broaden the student's study of English vocabulary and grammar and to enhance the student's reading, writing, speaking, and listening/understanding skills. Various works of fiction and nonfiction will be used, and the student will be exposed to a variety of forms of writing.

## FAMILY AND CONSUMER SCIENCES

<u>Title</u>	<u>Prerequisites</u>	<u>Credit</u>	<u>GL</u>
Orientation to FACS	None	1.0	9-10
Foods and Nutrition I	Orientation	0.5	9-12
Foods and Nutrition II	Foods I/Orientation	0.5	9-12
Child Development	Orientation	0.5	10-12
Child Care	Child Development	0.5	10-12
Independent Living	None	0.5	10-12
Adv. Foods	Foods I & II	0.5	11-12
Resource Management	None	0.5	10-12

**Orientation to FACS:** This year long course covers areas such as personal development, dating and relationships, foods and nutrition, sewing, housing and interiors, communication, and a focus on careers in each area.

**Foods and Nutrition I & II:** How food affects life, nutrition, weight control and culinary techniques are covered. As well as lab experiences with bread, pastry, sweets, grains, soups, eggs, and dairy products. Both courses are a semester, but are usually taken together for a full year experience.

**Child Development:** Discuss, "ages and stages" of children and study their intellectual, physical, social, and emotional growth and development.

**Child Care:** Covers childcare occupations and teach knowledge and skills to enable students to assist in a child care facility or prepare for a career as a licensed home babysitter. Parenting skills, including guidance, emotional development, and communicating with children are covered.

**Resource Management:** This course covers the how to of adulting by examining the process and decisions inherent to adult life, such as paying taxes, buying a car, house, or other large purchase, including how to balance one's own personal finances. This course is a graduation requirement.

**Independent Living:** This course is designed to focus on the knowledge, attitudes, and behaviors needed to participate in positive, caring, and respectful relationships in the family, community, and workplace. This course uses communication, leadership and management methods to develop knowledge and behaviors necessary for individuals to become independent, contributing, and responsible participants in family, community, and career settings. The course provides students content to identify resources that will assist them in managing life situations.

**Advanced Foods:** Provides principles of application into the hospitality industry, including nutrition, culinary, and entrepreneurial opportunities. Course content includes the following: selection, purchase, preparation, and conservation of food, dietary needs and trends, regional & international cuisine, safety and sanitation, and careers in food service industries. All of these concepts can be interpreted through laboratory experiences.

## FOREIGN LANGUAGE

<u>Title</u>	<u>Prerequisite</u>	<u>Credit</u>	<u>GL</u>
Spanish I	None	1.00	9-12
Spanish II	Sp. I	1.00	10-12
Spanish III	Sp. II	1.00	11-12
Spanish IV	Sp. III	1.00	11-12
NL Spanish Arts	Teacher Placement	1.00	9-12
NL French Arts	Teacher Placement	1.00	9-12

**Spanish I:** This class is designed to introduce students to the Spanish language through vocabulary, speaking exercises and other methodologies to help students understand how to speak and listen to the language.

**Spanish II:** This class is designed to introduce students to the Spanish language through vocabulary, speaking exercises and other methodologies to help students understand how to speak and listen to the language. This course builds on the skills learned in Spanish I, speaking in Spanish is a requirement of this course.

**Spanish III:** This upper level class is designed to introduce students to the Spanish language through vocabulary, speaking exercises and other methodologies to help students understand how to speak and listen to the language. This course is a more advanced class designed for serious language speakers. This course builds on skills learned in Spanish II.

**Spanish IV:** This upper level class is designed to introduce students to the Spanish language through vocabulary, speaking exercises and other methodologies to help students understand how to speak and listen to the language. This course is a more advanced class designed for serious language speakers and is considered a capstone course in the foreign language sequence. This course builds on skills learned in Spanish III.

**Native Language Spanish Arts:** This course is designed for native Spanish language speakers.

**Native Language French Arts:** This course is designed for native French language speakers.

## MATHEMATICS

<u>Title</u>	<u>Prerequisites</u>	<u>Credit</u>	<u>GL</u>
Basic Algebra	None	1.0	9
Algebra I	None	1.0	9
Algebra I Skills	None	1.0	9
Geometry	Algebra I	1.0	9-10
Geometry Skills	Algebra I	1.0	9-10
Algebra II	Geometry	1.0	10-11
Algebra II Skills	Geometry	1.0	10-11
Pre-Calculus	Algebra II	1.0	11-12
AP Calculus	Pre-Calculus	1.0	11-12
Prob/Stats	Algebra II	1.0	12
College Math Prep	Alg. I/II, Geo	1.0	12

**Basic Algebra I:** This course serves as a more fundamental approach to the material taught in Algebra I.

**Algebra I:** In Algebra I students will learn to approach and solve problems following a logical, organized, and justified sequence of topics. Course content includes the study of real numbers, expressions, linear equations and inequalities, functions, polynomial operations, coordinate geometry, data analysis and probability.

**Algebra I Skills:** In Algebra I students will learn to approach and solve problems following a logical, organized, and justified sequence of topics. Course content includes the study of real numbers, expressions, linear equations and inequalities, functions, polynomial operations, coordinate geometry, data analysis and probability. This class is reserved for those with special education accommodations.

**Geometry:** Continues the students study of geometric concepts building upon middle school topics. Students will move from an inductive approach to deductive methods of proof in their study of two-and three-dimensional geometric figures. Reasoning skills will be emphasized and students will broaden their use of the coordinate plane.

**Geometry Skills:** Continues the students study of geometric concepts building upon middle school topics. Students will move from an inductive approach to deductive methods of proof in their study of two-and three-dimensional geometric figures. Reasoning skills will be emphasized and students will broaden their use of the coordinate plane. This course is reserved for those with special education accommodations.

**Algebra II:** Continues study of advanced algebraic concepts including fractions, polynomials, rational expressions, systems of functions and inequalities, and matrices. Students will be expected to describe and translate among graphic, algebraic, numeric, tabular, and verbal representations of relations and use those representations to solve problems. Emphasis should be placed on practical applications and modeling.

**Algebra II Skills:** Continues study of advanced algebraic concepts including fractions, polynomials, rational expressions, systems of functions and inequalities, and matrices. Students will be expected to describe and translate among graphic, algebraic, numeric, tabular, and verbal representations of relations and use those representations to solve problems. Emphasis should be placed on practical applications and modeling. This course is reserved for those with special education accommodations.

**Pre-Calculus:** Provides students an honors-level study of Trigonometry, advanced functions, analytic geometry, and data-analysis in preparation for Calculus. May be doubled with Probability and Statistics.

**AP Calculus:** Develops the students understanding of the concepts of Calculus (functions, graphs, limits, derivatives, integrals, polynomial approximations, and series) and provides experience with its methods and applications. The course encourages the geometric, numerical, analytical, and verbal expressions of concepts, results, and problems. Students follow the College Board curricula and can participate in the AP testing program.



**Probability and Statistics:** Introduces and extends the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will observe patterns and departures from patterns, decide what and how to measure, produce models using probability and simulation, and confirm models.

**College Math Prep:** Students will strengthen their skills in pre-algebra, algebra I, and algebra II in preparation for college placement exams. Students will use KAHN Academy to review and strengthen their math skills before going on to college or a career outside of high school.

## INDUSTRIAL TECHNOLOGY

<u>Title</u>	<u>Prerequisites</u>	<u>Credit</u>	<u>GL</u>
Orient to Ind Tech	None	1.0	9-12
Woods Production I	Ind. Tech	0.5	10-12
Woods Production II	Woods I	0.5	10-12
Basic Drafting	Ind. Tech	0.5	10-12
Drafting CAD I	Basic Drafting	0.5	10-12
Metals	Ind. Tech/JR-SR.	0.5	11-12
Welding	Ind. Tech/JR-SR.	0.5	11-12
Construction	Woods	0.5	11-12

**Orient to Ind Tech:** This course covers aspects of industrial technology (transportation, communication, production, and energy). The class consists of theory and hands on lab work.

**Woods Production I:** This course covers basic aspects of woods production including finished wood joining concepts. Basic uses of wood power equipment and skills will be focus of this course.

**Woods Production II:** This course will cover advanced aspects of woods production including finished wood joining concepts. Advanced uses of wood power equipment will be the focus of this course.

**Basic Drafting:** This course will introduce basic board drafting concepts and skills. The student will practice techniques including 2D, develop orthographic views, section views, dimensioning, and various pictorial techniques. Basic architectural concepts will also be introduced. The class will be a blend of theory and hands on skills.

**Adv. Drafting I (CAD I):** This course will enhance the skills introduced in Drafting I. The students will use Computer Aided Drafting Software (CAD) to create rendering of various drafting problems using a range of drawing techniques including 2D, developing orthographic views, section views and various pictorial techniques.

**Construction:** Course will cover advanced aspects of carpentry and construction technology: including residential and commercial framing, cabinetry, surveying and cement/masonry.

**Metals:** This course cover basic aspects of metal production including finished metal seaming concepts. Basic uses of metals power equipment and skills will be the focus of this course.

**Welding:** This course will cover basic aspects of metal welding production including finished metal seaming concepts. Basic uses of welding equipment and skills will be the focus of this course.

## MUSIC

<u>Title</u>	<u>Prerequisites</u>	<u>Credit</u>	<u>GL</u>
Band	None	1.0	9-12
AP Music Theory	Chorus/Band Experience	1.0	11-12
Music Appreciation	Junior/Senior	0.5	11-12
Music in America	Junior/Senior	0.5	11-12
Chorus	None	1.0	9-12
Elite Choir	Audition	1.0	9-12

**Band:** Students will demonstrate correct methods of tone production, rhythm and musical style, students will understand basic music theory/history as applied to current musical literature of the class. Students will use these skills to perform music in an artistic and aesthetic manner.

**AP Music Theory:** Music theory attempts to find and explain connections between composers and their music writings throughout history thus forming a basis for all of our music repertoire. This course will focus on Western Music theory from J.S. Bach through the present (1685-2011).

**Music Appreciation:** Course is designed to promote an appreciation of music through the habit of intelligent listening. Music is then presented in a historical perspective with an emphasis on prominent composers and musical periods/styles. Outside classroom concert attendance is required. Students study each period of music history by reading, recordings, films, concerts, and live class performances.

**Music in America:** Course is designed to present major musical achievements and significant works by American composers and musicians, spanning a wide range of styles including but not limited to classical music, country, blues, jazz, soul and rock.

**Chorus:** The high school choir is open to any high school student with the willingness to sing. Emphasis is placed on improving musicianship as well as quality performance. Concert attendance is required . This course may be repeated a maximum of 8 semester hours. An audition is required during the first week of class.

**Elite Choir:** A performance based class, where students learn to prepare and perform various styles of music. Students learn choreography to songs, as well as text interpretation, facial and body expression and many performance skills. Elite Choir performs regularly at school activities and community events. Attendance at all performances is required. This course may be repeated a maximum of four years.

## PHYSICAL EDUCATION

<u>Title</u>	<u>Prerequisite</u>	<u>Credit</u>	<u>GL</u>
PE – Regular	None	1.00	9-12
Athletic PE	None	1.00	9-12
Health	None	0.5	9-12
Dr. Ed.	15 or older	0.5	10-12

**Physical Education:** This course is designed to introduce students to various types of physical activity. Units include basketball, table tennis, soccer, volleyball, etc..

**Athletic Physical Education:** This course is designed to provide students with an understanding of the proper way to incorporate strength training and endurance training into their everyday activity as part of a healthy lifestyle.

**Health:** This course provides students with the knowledge to live a healthy and productive life, by looking at proper nutrition and healthy living. This course is required for graduation.

**Dr. Ed:** This course is required for graduation and is required to obtain a driver's license in the state of IL. This course teaches students the rules of the road and how to successfully interact with law enforcement in addition to being a safe and courteous driver. Prompt attendance and driving with an instructor are required aspects of this course.

## SCIENCE

<u>Title</u>	<u>Prerequisites</u>	<u>Credit</u>	<u>GL</u>
Biology	None	1.0	9
Biology Skills	None	1.0	9
Physical Science	Biology	1.0	10-11
Physical Science Skills	Biology	1.0	10-11
Earth Science	Physical Science	1.0	11-12
Earth Science Skills	Physical Science	1.0	11-12
Anatomy & Physiology	Seniors Only	1.0	12
Chemistry	Physical Sci/Alg II	1.0	11-12
Physics I	Physical Sci/Alg II/ enrolled in Pre-calc	1.0	11-12
Physics II	Physics I/Calculus	1.0	11-12
Genetics	Biology	0.5	11-12
Zoology	Biology	0.5	11-12

**Biology:** This course is designed to take the student through a general study of living matter. You will be introduced to the diversity of Earth's living organisms, explore major biological principles and learn how to think scientifically with an emphasis on problem-solving. This course is required for graduation.

**Biology Skills:** This course is designed to take the student through a general study of living matter. You will be introduced to the diversity of Earth's living organisms, explore major biological principles and learn how to think scientifically with an emphasis on problem-solving. This course is required for graduation. This course is reserved for students with special education accommodations.

**Physical Science:** This course will study the existence of matter and energy in our universe. It will also expose students to the scientific fields of chemistry and physics.

**Physical Science Skills:** This course will study the existence of matter and energy in our universe. It will also expose students to the scientific fields of chemistry and physics. This course is reserved for students with special education accommodations.

**Earth Science:** This course continues the study of the interaction of the earth sciences and the physical world. Special topics from the disciplines geology, astronomy, oceanography and related sciences may be covered. Selected principles and concepts from these applied sciences are explored.

**Anatomy & Physiology:** This course is designed to introduce students to human anatomy and physiology with an emphasis on the systems of the body and how they are interrelated. Areas covered will include medical terminology, cell and tissue structure, and the eleven systems of the body.

**Chemistry:** Chemistry is the study of the composition, structure, and properties of matter and the changes caused by the interactions with other kinds of matter or energy. Students will be doing labs with various substances and recording the results. Math will be an essential part of this course. Students must have completed or be enrolled in Algebra II with a “B” or better, and completed Physical Science with a “C” or better.

**Physics I:** Physics is the quantitative study of mechanical, thermal, wave, sound, light, and electrical energies and the forces that cause changes in the matter using these energies. Students must have completed Alg. II and currently be enrolled in Pre-Calculus with a “B” in all classes. Completion of Physical Science with a “B” or better is also required.

**Physics II:** Astronomy is covered the entire 1<sup>st</sup> semester, the second semester is the study of electricity and electronics. Requirements include Physics I or teacher permission. Must have completed Pre-calculus and have had a “B” or better in Physical Science.

**Genetics:** Taken as a semester course in the Fall, this course is an introduction to the fundamentals of genetics, with an emphasis on humans. Topics will include the principles of inheritance, DNA and RNA, genetic engineering, and the Human Genome. Must have passed Biology with a “C” or better.

**Zoology:** Taken as a semester course in the Spring, this course is a survey of the animal kingdom with an emphasis on diversity, functional adaptations, and environmental interactions. Must have passed Biology with a “C” or better.

## SOCIAL SCIENCES

<u>Title</u>	<u>Prerequisites</u>	<u>Credit</u>	<u>GL</u>
World Geography I	None	0.5	9
World Geography II	None	0.5	9
Hon. Ancient Hist.	None	0.5	9
Hon. Medieval Hist.	None	0.5	9
World Current Events	None	0.5	10
20th Century Hist.	None	0.5	10
US History	Junior	1.0	11
Civics and Econ	Sophomore	0.5	10
AP World History	Sophomore	1.0	10
AP US History	Junior	1.0	11
AP European Hist.	Senior	1.0	12
Psychology	None	0.5	10-12

**World Geography I:** 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.

**World Geography II:** 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.

**Honors Ancient History:** This course looks at man's transition from prehistoric times through the dawn of civilization to the collapse of the Roman Empire. This course also looks at the values and beliefs of both Western and Eastern cultures. Students who wish to take AP courses in future years are advised to take this sequence of courses.

**Honors Medieval History:** This course exams the impacts of the Roman Empire, feudalism, the church, nation-making, and the Renaissance and covers the time between ancient and the modern world. Students who wish to take AP courses in future years are advised to take this sequence of courses.

**World Current Events:** This course enables students to study political, economic, and social issues facing the world. Course may focus on current issues, examine selected issues throughout the 20th century, and look at historical causes or possible solutions.

**20<sup>th</sup> Century History:** This course examines the world from period pre-WWI to the present and focuses heavily on the European aspect of these events. This course is recommended for students interested in the political, social and economic impact of WWI, WWII, and the Cold War.

**US History:** This course examines the development and growth of the United States from colonization to the present day. It will look at the conflicts, contributions and people that made America the country it is today. This class is required to graduate, but may be taken in its AP form to fulfill this requirement.

**Civics and Economics:** This course will look at the experiment that is our democracy by looking at how people can be active participants through voting, community involvement, and other civic duties. This course will also examine the basic structure of our government. Students must take the Illinois and US Constitution tests, a passing grade is required for graduation.

**AP World History:** This class will analyze and evaluate the historical development of civilizations from around the world during the 10<sup>th</sup> through 19<sup>th</sup> centuries. Students who take this course will be able to take the AP test in the Spring to possibly obtain college credit.

**AP US History:** This course examines the development and growth of the United States from colonization to the present day. It will look at the conflicts, contributions and people that made America the country it is today. Critical analysis through researching primary source documents will be an integral part of this course. Students who take this course will be eligible to take the AP exam in the spring.

**AP European History:** This course looks at the development of Western European history from the late Middle Ages (1300AD) to the present day. Paying special attention the development of culture, religious divisions, and the impact of European culture around the globe. Students who take this course will be eligible to take the AP exam in the spring.

**Psychology:** This course looks at the study of individual human behavior, paying special attention to consciousness, personality, the human lifespan, and abnormal psychology.