2026-2027
Illini Central
High School Course Catalog

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INTRODUCTION

This handbook has been prepared by the school administration, counselors, and teachers for you, the students and families of Illini Central High School to inform you of the courses offered at each grade level. The graduation requirements in each subject area at Illini Central meet or exceed the standards set by the State of Illinois to provide challenging opportunities for every student. As our mission is to enable students to become responsible and productive citizens committed to excellence and life-long learning, we hope you choose courses that will put you on the path to success here at IC and beyond.

We encourage parents and students to plan for each school year together. Course requests for the 2024-2025 school year will begin shortly after the start of the second semester. If you need help selecting courses or developing post-secondary plans, please see your school counselors. Parents are also encouraged to contact the office with questions or make an appointment.

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GRADUATION REQUIREMENTS

24 total credits are needed to graduate from Illini Central High School; see student handbook for complete details

All students are required to complete the following units* to graduate:

*One unit of credit is earned by passing a year-long course (two semesters). A half-unit of credit is earned by passing a half-year course (one semester).

4 units of English: to include English I, English II, English III, all writing-intensive courses. Seniors have multiple options depending on interest, ability, and future plans. Basic English Skills only counts toward a General Elective, not as an English requirement, unless allowed as part of a student's Individualized Education Plan (IEP).

2 units of Social Studies: including 1 unit of US History (writing intensive), ½ unit of American Government/Civics, and at least ½ unit of a Social Studies Elective.
Earning 3 units is highly recommended for college and career readiness.

3 units of Mathematics: to include Algebra I (unless successfully completed in 8th grade) and Geometry. Juniors and Seniors have multiple math options depending on interest, ability, and future plans.

3 units of Lab Science: including 1 unit of Biology or Ag Biology; Multiple options are available depending on student interest, ability, and future plans.

3 units of Fine and Applied Arts: to include **½ unit of Resource Management, ½ unit** of an additional technology/business class, and **2 units** of art, foreign language, music, or vocational (agriculture, business, family/consumer sciences, industrial tech, LTEC) courses. (Beginning with the Class of 2026, Intro to Computer Applications is required)

4+ units of General Electives: Additional units earned above and beyond the required number listed above in each academic subject area will count toward general electives. Credits earned through LTEC, correspondence, and dual credit courses can also be counted toward general elective requirements.

4 units of Physical Education: To include **½ unit of Health**
Some students may be exempt from PE for qualified reasons as listed in the current handbook, provided that the exemption form is filed with the school counselor before the end of the first week of the affected semester. The total number of required credits for graduation must still be met.

½ unit for Service Learning Hours: 40 hours of community service is required. Students may complete these hours as early as they wish after the completion of eighth grade. It is highly recommended that students complete at least 10 hours of community service each year of high school in order to pace their efforts. Once the hours are completed, and the required documentation is filed with the school counselor, ½ credit will be awarded to the student.

½ unit for Driver's Education (See Page 16)

Completion of the Free Application for Federal Student Aid (FAFSA) Per state graduation requirements, all graduates must file the FAFSA or file a waiver with the school district.

Completion of the Career Capstone Project: All students are required to complete a series of activities throughout high school designed to explore careers and create a realistic plan for their future. All activities will be combined into a culminating project senior year.

COURSE & GRADUATION POLICIES

This is not an exhaustive list. For a complete explanation, see the current student handbook.

COURSE CHANGES

All course changes for students must be requested prior to the end of the first week of student attendance (5 school days) for each semester. Any additional changes will only be permitted in extreme situations, and with administrative permission. After that date, no subject may be added or dropped. Students may not drop a course required for graduation without administrative approval.

CAREER CAPSTONE PROJECT

As part of Illini Central's mission to provide experiences that foster career awareness, all students are required to complete a series of activities throughout high school designed to explore careers and create a realistic plan for their future. All activities will be combined into a culminating project senior year. Activities will include career interest inventories, writing assignments for self-awareness and career research, resume creation, field trips to explore careers and post-secondary training/education, mock interviews, and more. The final, culminating project will be a "Reverse Career Fair" in which each member of the current Senior class will give an informal presentation detailing their future plan and showcasing their career-related experiences. Select pieces from this body of work will be assigned through coursework and graded for credit, while other activities will be accomplished through the advisory period, field trips, and during half-days as class projects. A comprehensive packet outlining each activity in detail is on file in the school counselor's office. The school counselor will work individually with transfer students and early graduates to ensure that each requirement is met.

ICHS DUAL CREDIT POLICY

Students from Illini Central High School have the opportunity to receive credits for classes they take at institutions of higher education and apply that credit toward graduation at ICHS. The student shall pay all dues and fees for any dual credit classes. Each approved semester course completed at an institution of higher learning will count as one-half credit toward graduation. Dual credit courses may apply to classes that are scheduled before school, during the school day, or after school at an approved institution. Dual credit classes that take place during the school day may count toward full-time status. For dual credit classes occurring before school or at night, a minimum of five classes at ICHS must still be attended during the school day. All classes taken off of the high school campus during the school day must be approved to count toward dual credit. Students taking dual credit courses will follow all ICHS course change (add/drop) policies for those classes taken. If a student drops a dual credit course past the ICHS drop deadline even though it may not affect the college or university transcript, it will count as a failing grade on their high school transcript. Students must notify the school counselor if they drop a class immediately. This will also apply to night classes that are counted as dual credit classes. **Students need school counselor approval for any dual credit.**

WEIGHTED COURSE POLICY

Illini Central High School offers weighted, advanced courses in the following: Advanced Chemistry II, Advanced Biology II, Physics, Human Anatomy and Physiology, Advanced English III, English IV, Advanced US History, Pre-Calculus, Math IV, AP Calculus, Spanish III, Spanish IV, and any dual credit course offered at Illini Central. These courses are designed to be more challenging and rigorous than their standard counterparts and students will be expected to achieve a higher level of subject knowledge. See the student handbook for the GPA weighting of these courses. Placement in these courses is based on teacher recommendation, student skill level, desire, and future course of study and there are often prerequisites that must be met. See the specific course descriptions or the school counselor for more information.

SERVICE LEARNING HOURS

Students are required to complete 40 community service hours as stated in the graduation requirements section. Below are potential service learning options for students looking for ideas to fulfill their service-learning requirements for graduation. The list is not all-inclusive. Students with plans not listed should seek approval from the guidance counselor or principal. Activities should be completed for an individual outside the immediate family and must be done without pay in order to meet service learning guidelines. Students are also encouraged to seek opportunities for service learning hours that align with their future career goals.

- School – work at school functions, elementary recess duty, recycling, office aide, library aide, tutoring, etc.
- Church – choir, volunteer for Sunday school, help at dinners, mission trips, etc.
- Neighbors – rake yards, mow lawns, shovel snow, babysit, pick up groceries, water & feed pets, wash windows
- Community Recycling
- Visit and Volunteer at the Nursing Home
- Volunteer at Prairie Harvest Days or other community events
- What else?

Students completing service hours for another school group may also use those hours toward their service learning graduation requirement.

GRADUATION

Any student who completes all graduation requirements between the fall of the current school year and before the beginning of the next school year will be classified as graduating at the end of the school year during the outlined time period. Early graduation must be discussed with the school counselor no later than the completion of the first week of the first semester. An application must be turned in to the school counselor by October 1st of a student's seventh semester in order to qualify and/or receive consideration for early graduation. Refer to the current handbook for complete details.

COURSE DESCRIPTIONS

Please note: Not all courses are offered every semester, based on student interest and staff availability.

English

	Support Track	Regular Track	Advanced Track
Freshman Year	English I w/ Basic English Skills (Elective)	English I	English I
Sophomore Year	English II	English II	English II
Junior Year	English III	English III British Literature Literature of a Genre	Adv. English III**
Senior Year (Pick One)	*Lit & Film Transitional English *Literacy Leadership Dual Credit English** *Speech Mythology Applied English & Communication	*Lit & Film *Transitional English *Literacy Leadership Dual Credit English** *Speech British Literature Literature of a Genre Mythology Applied English & Communication	Lit & Film Transitional English Literacy Leadership *Dual Credit English** Speech British Literature Literature of a Genre Mythology Applied English & Communication

*** Indicates suggested course options**
*** College bound students are encouraged to take Transitional English or Dual Credit English.**
**** Indicates a weighted course.**

Basic English Skills

Aligned with the ISBE Course Catalog – Strategic Reading (01066A00)
(NOT APPROVED course through NCAA clearinghouse)
Prerequisite: Placement based on individual student needs through an Individualized Education Plan (IEP)

This course has been developed to help students learn and practice a variety of reading skills (vocabulary, critical thinking, analysis, fluency, and comprehension) that are applied to a wide range of reading tasks. Students will assess their strengths and weaknesses as readers. The course will emphasize the use of texts from various subject areas so that students can practice strategies for other classes. At the end of the year, students should have the skills and strategies to make students readers who can approach a variety of reading tasks with confidence.

English I — Credits: 1.0

Aligned with the ISBE Course Catalog – English/Language Arts I, 9th Grade (01001A000)

Required of all freshmen, this course is devoted primarily to the study of reading, writing, speaking, and listening.

Units of Study: In the study of reading, emphasis is given to the recognition and appreciation of various types of literature, the ideas presented therein, and the techniques and styles of the basic principles that help students learn to comprehend more precisely. The study of composition at this level will include paragraphs and essays. The emphasis in this unit is given to narrative, persuasive, and expository writing and to various methods of essay development. In this course, students will learn

computer literacy as related to writing and publication. Daily reading and writing assignments are expected in this course.

English II — Credits: 1.0

Aligned with the ISBE Course Catalog – English/Language Arts II, 10th grade (01002A000)
Prerequisites: Successful completion of English I

English II provides a review and an extension of the principles taught in English I. Written and oral communication will be the focus of this course; however, reading and grammatical skills will be reinforced.

Units of Study: The studies of composition and communication will be the primary studies in this class – composition includes paragraphs and essays. The emphasis in this unit is given to narrative, descriptive, explanatory, and persuasive writing and to various methods of composition development. Students will also be required to complete reading which will build upon the various types of literature, the ideas presented therein, and the techniques and styles of the authors as elaborated upon in English I. In the study of grammar, emphasis is placed on the basic principles that help students learn to communicate clearly and precisely. Daily reading and writing assignments are expected in this course.

English III and Advanced Eng III (must be concurrently enrolled in US History) — Credits: 1.0

Aligned with the ISBE Course Catalog – English/Language Arts III (11th grade; 01003A000)
Prerequisites: Successful completion of English I and English II

English III is a writing-intensive course, focusing on literature such as short stories, poetry, and novels by American authors from the Puritan period through to the present. Students in this course will examine American literature in context with its history to recognize the relationships among social, political, economic, and artistic developments. Periods/movements in American literature include Puritanism, Rationalism, Transcendentalism, Romanticism, Harlem Renaissance, Realism, The Moderns, Dark Romanticism, and current literature. Units of study will include Literature, Composition, English Mechanics, and a Research Paper.

(Dual Credit) English Composition I (A Weighted Course) — Credits: 0.5
(Dual Credit) English Composition II (A Weighted Course) — Credits: 0.5

Aligned with the ISBE Course Catalog –Composition (01103A000)
Prerequisite: Satisfactory completion of English III and acceptance into the course through Lincoln Land Community College Admissions

Presented in partnership with Illinois Community College (ICC) , these two dual-credit courses are the basic composition work required at the community college level. Taught in the Illini Central building by an ICC professor or an Illini Central teacher approved by ICC to teach the course, they are designed to introduce students to college-level writing skills and are available to any student who meets the criteria to take courses at the college level. It requires the student to take a placement test through ICC or a qualifying score through their SAT. See dual credit agreement for tuition and fee details.

Literature and Film — Credits: 1.0

Aligned with the ISBE Course Catalog – Literature/Other (01099A000)
(NOT APPROVED course through NCAA clearinghouse)
Prerequisite: Satisfactory completion of English III

Literature and Film traces the study of literature in cooperation with the study of film. Students enrolled in this course will be expected to read and analyze a work of literature and its relationship to a film adaptation or related film. Classwork will include discussion, reading, and writing - both in groups and as individuals.

Literacy Leadership — Credits: 0.5

Aligned with the ISBE Course Catalog – Literature/Other (01099A000)
(NOT APPROVED course through NCAA clearinghouse)
Prerequisite: Satisfactory completion of English III, AND Senior status

This course teaches students about the fundamentals of literacy and how to encourage literacy skills among younger readers and writers. Students in this course will study the fundamentals of reading, writing, speaking, and listening – in turn they will share these skills with younger students in the school. A highly recommended course for students interested in a career in elementary education or someone interested in sharpening their skills to foster literacy as a future parent.

Speech Communication — Credits: 0.5

*Aligned with the ISBE Course Catalog – Public Speaking (*01151A000*)*
Prerequisite: Satisfactory completion of English II

This speech communication course enables students, through practice, to develop skills that can be used in a variety of speaking situations (such as small and large group discussions, delivery of lectures or speeches in front of audiences, and so on). Course topics may include (but are not limited to) research and organization, writing for verbal delivery, stylistic choices, visual and presentation skills, analysis and critique, and development of self-confidence.

Applied English and Communications — Credits: 0.5

Aligned with the ISBE Course Catalog - (01156A000)
Prerequisite: Satisfactory completion of English III

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

British Literature — Credits: 0.5

Aligned with the ISBE Course Catalog - British Literature (01056A000)
Prerequisite: Satisfactory completion of English II

British Literature British Literature courses may provide a survey of British literature or may focus on a selected timeframe of England's history. Students improve their critical-thinking skills as they determine the underlying assumptions and values within the selected works and as they understand how the literature reflects the society of the time. Oral discussion is an integral part of literature courses, and written compositions are often required.

Literature of a Genre — Credits: 0.5

Aligned with the ISBE Course Catalog - British Literature (01061A000)
Prerequisite: Satisfactory completion of English II

Literature of a Genre These courses have the same aim as general literature courses (to improve students' language arts and critical-thinking skills), focusing on one or several genres, such as poetry, essay, biography, short story, drama, film, and so on. Students determine the underlying assumptions and values within the selected works and also examine the structure, techniques, and intentions of the genre being studied. Oral discussion is an integral part of these enre-oriented courses, and written compositions are often required.

Mythology — Credits: 0.5

Aligned with the ISBE Course Catalog - Mythology (01069A000)

Mythology course introduce students to the origins and meaning of myths, including how cultures use myths to explain natural or social phenomenon. Students will explore the major themes, stories, characters, and archetypes present in the mythologies of several different cultures.

Mathematics

	Support Track	Regular Track	Advanced Track
Freshman Year	Algebra I** w/ Algebra Lab (Elective)	Algebra I**	Geometry**
Sophomore Year	Geometry**	Geometry**	Algebra II**
Junior Year	Algebra II**	Algebra II**	PreCalculus***
Senior Year (Optional) Pick One	PreCalculus*** Transitional Math Transitional Tech. Math Probability & Statistics	PreCalculus*** Transitional Math Transitional Tech. Math Probability & Statistics	Calculus*** Transitional Math Transitional Tech. Math Probability & Statistics

***College bound students are suggested to take 4 years of math.**
**** Indicates a required course for graduation.**
***** Indicates a weighted course.**

Algebra I — Credits: 1.0

Aligned with the ISBE Course Catalog - Algebra I (02052A000)
Prerequisites: None; a required course for all freshmen

Algebra includes the study of the real number system, linear functions, linear inequalities, quadratic functions, systems of equations and inequalities, exponents and exponential functions, piecewise functions, polynomials and factoring, and statistics.

Geometry — Credits: 1.0

Aligned with the ISBE Course Catalog - Geometry (02072A000)
Prerequisites: The successful completion of both semesters of Algebra I

Geometry includes the study of parallel and perpendicular lines, transformations, triangle congruence, relationships in triangles, quadrilaterals and other polygons, similarity, right triangles and trigonometry, circles, two- and three-dimensional models, probability, and coordinate geometry.

Algebra II — Credits: 1.0

Aligned with the ISBE Course Catalog - Algebra II (02056A000)
Prerequisites: The successful completion of both semesters of Geometry

Algebra II includes the study of linear functions and systems, quadratic functions and equations, polynomial functions, rational functions, rational exponents and radical functions, exponential and logarithmic functions, matrices, data analysis and statistics, and probability.

Pre-Calculus (*A Weighted Course)*

Aligned with the ISBE Course Catalog – Pre-calculus (02110A000)
Prerequisites The completion of both semesters of Algebra II with at least 70% each semester and teacher recommendation.

Precalculus includes the study of functions and graphs (polynomial, power, rational, exponential, logarithmic, and trigonometric), analytic trigonometry, conics, matrices, discrete mathematics, and statistics and probability. A graphing calculator is required.

Transitional Math — Credits: 1.0

Aligned with the ISBE Course Catalog—Transition Algebra (02055A001)
(NOT APPROVED course through NCAA clearinghouse)
Prerequisites: The successful completion of both semesters of Algebra II

This class will include topics required by the Statewide Panel for Transitional Math established pursuant to the PWR Act, along with some additional topics. This course will provide a mathematical foundation for college and post-secondary careers. Students will receive guaranteed placement at any Illinois community college upon successful completion of a transitional math course with a grade of C or better. This course cannot be used towards graduation requirements.

Topics of study include basic function concepts, solving systems of equations, operations of matrices, simplifying expressions, solving equations, and graphing functions that are linear, polynomial, rational, radical, and exponential.

Transitional Technical Math — Credits: 1.0

Aligned with the ISBE Course Catalog—Transition Algebra (02153A001)
(NOT APPROVED course through NCAA clearinghouse)
Prerequisites: The successful completion of both semesters of Algebra II

This class will include topics required by the Statewide Panel for Transitional Math established pursuant to the PWR Act, along with some additional topics. This course is designed specifically to transition students to post-secondary technical pathways or careers. Students will receive guaranteed placement at any Illinois community college upon successful completion of a transitional math course with a grade of C or better. This course cannot be used towards graduation requirements.

This course encompasses, but is not limited to, number sense and number systems, geometry, and basic algebra delivered through authentic, contextualized, problem based learning.

Introduction to Probability and Statistics — Credits: 1.0

Aligned with the ISBE Course Catalog— Probability and Statistics (02201A000)
(NOT APPROVED course through NCAA clearinghouse)
Prerequisites: The successful completion of both semesters of Algebra II

Probability and Statistics course introduces the study of likely events and the analysis, interpretation, and presentation of quantitative data. Course topics will include basic probability and statistics: discrete probability theory, odds and probabilities, probability trees, populations and samples, frequency tables, measures of central tendency, and presentation of data (including graphs). Course may also include normal distribution and measures of variability if there is time.

Advanced Placement (AP) Calculus (*A Weighted Course)* — Credits: 1.0

Aligned with the ISBE Course Catalog – Calculus (02121A000)
Prerequisites: The completion of both semesters of Precalculus with at least 80% each semester and teacher recommendation.

This class will follow the College Board's suggested curriculum. Designed to parallel college-level calculus courses, AP Calculus AB provides students with an intuitive understanding of the concepts of calculus and experience with its methods and applications. This course introduces calculus and includes the following topics: elementary functions; properties of functions and their graphs; limits and continuity; differential calculus (including the definition of the derivative, derivative formulas, theorems about derivatives, geometric applications, optimization problems, and rate-of-change problems); and integral calculus (including antiderivatives and the definite integral). A graphing calculator is required.

Units of study include: Limits and their properties; Differentiation and Applications; Integration and Applications

Algebra I Lab — Credits: 1.0

Aligned with the ISBE Course Catalog – Algebra Other (02069A000)

This class is a pass/fail elective course for students who are determined to need more support in Algebra I. The course is an extension of Algebra I by providing students with more instruction of basic algebraic concepts.

Math Lab — Credits: 1.0

Aligned with the ISBE Course Catalog – Geometry Other (02079A000)

This class is a pass/fail elective course for students who are determined to need more support in Geometry and Algebra II. The course is an extension of Geometry and Algebra II by providing students with more instruction of basic algebraic and geometry concepts.

Science

	Regular Track	College Bound
Freshman Year (Choose One)	Biology Ag. Biology	Biology Physical Science (Prereq. for Chemistry and Physics)
Sophomore (Choose One)	Physical Science (Prereq. for Chemistry and Physics) Advanced Biology** Human Anatomy** Environmental Science Vet Tech (Prereq. for Vet Tech II) Integrated Ag Science	Physical Science (Prereq. for Chemistry and Physics) Advanced Biology** Human Anatomy** Chemistry
Junior Year (Choose One)	Physical Science (Prereq. for Chemistry and Physics) Advanced Biology** Human Anatomy** Environmental Science Vet Tech (Prereq. for Vet Tech II) Vet Tech II Chemistry (Physical Sci. Req.) Integrated Ag Science	Physical Science (Prereq. for Chemistry and Physics) Advanced Biology** Human Anatomy** Chemistry (Physical Sci. Req.) Advanced Chemistry (Chemistry Req.)**
Senior Year (Choose One)	Physical Science (Prereq. for Chemistry and Physics) Advanced Biology** Human Anatomy** Environmental Science Vet Tech (Prereq. for Vet Tech II) Vet Tech II Chemistry (Physical Sci. Req.) Physics (Physical Sci. Req.)** Integrated Ag Science	Physical Science (Prereq. for Chemistry and Physics) Advanced Biology** Human Anatomy** Chemistry (Physical Sci. Req.) Physics (Physical Sci. Req.)** Advanced Chemistry (Chemistry Req.)**

***3 years of science are required for graduation. 4 years are suggested for college bound students.**
****Indicates a weighted course**

Biology I — Credits: 1.0

Aligned with the ISBE Course Catalog – Biology (03051A000)

Biology I is a required course for freshmen (unless enrolled in Agriculture Biology) and is the study of the science of life. Units of Study include: From Molecules to Organisms; Heredity, Inheritance, and Variation of Traits; Ecosystems, Invertebrate/vertebrate zoology.

Agriculture Biology — Credits: 1.0

Aligned with the ISBE Course Catalog – Biological Applications in Agriculture (18004A000)

Agriculture Biology is designed for freshmen interested in learning about food systems or the production, processing, distribution, and consumption of food products as well as the interactions of various aspects of food systems with the natural environment.

Agriculture Biology will cover all major topics in life science including biochemistry, ecology, cells, reproduction, heredity, biological evolution, and diversity. This course will pay specific emphasis on developing skills related to Scientific and Engineering Practices and building Cross-Cutting Concepts as students develop explanations for phenomena and solve real-world problems.

Participation in FFA and Supervised Agricultural Experiences (SAE) are highly encouraged.

Physical Science — Credits: 1.0

Aligned with the ISBE Course Catalog – Physical Science (03159A000)

This course introduces fundamental concepts of science including laboratory work as an overview to science and science inquiry.

Units of Study include Matters and Its Interaction, Motion and Stability, Forces and Interactions, Energy and Earth's Place in the Universe.

Advanced Biology II (*A Weighted Course)* — Credits: 1.0

Aligned with the ISBE Course Catalog – Biology-Advanced Studies (03052A000)
Prerequisites: The successful completion of both semesters of Biology I. Ag Biology does not count as the prerequisite for Advanced Biology.

Advanced biology is a continuation of biology; building upon previous knowledge and learning about the processes of life with stronger detail and depth. Students develop their understanding of biology as they focus on the following units of study: Cellular processes; Energy and communication; Genetics & Heredity; Evolution; Ecology and Living Interactions

Chemistry I — Credits: 1.0

Aligned with the ISBE Course Catalog – Chemistry (03101A000)
Prerequisites: Successful completion with C or higher in Algebra I and Physical Science, or teacher approval

Chemistry I builds on the physical science background students has had previously. The course content includes chemical foundations, nomenclature, reactions, stoichiometry, modern atomic theory, and chemical bonding. Analyzing data and writing lab reports are emphasized in laboratory work.

Units of Study include: Chemical Foundations; Atoms, Molecules, and Ions; Stoichiometry, types of Chemical Reactions and Solution Stoichiometry; Gases and Thermochemistry; Atomic Structure and Periodicity; Bonding: General Concepts; Covalent Bonding and Orbitals

Environmental Science — Credits: 1.0

Aligned with the ISBE Course Catalog – Applied Biology/Chemistry (03203A000)
Prerequisites: Successful completion of Biology or teacher approval

Environmental Science class introduces students to environmental issues through a problem-based, interdisciplinary approach. Students will explore environmental problems and possible solutions through research and experimentation. Various computer-oriented tools will be used to reinforce learning.

Units of Study include Scientific method; Environmental policy, ecology, and human population; Soils and agriculture; Biotechnology; Urbanization, environmental health, and toxicology; Freshwater resources, atmospheric science and air pollution; Global climate change, renewable alternative energy, and waste management.

Integrated Agricultural Animal and Plant Science Credits: 1.0

Aligned with the ISBE Course Catalog – Foundational Supervised Agricultural Experience (18999A001)
(NOT APPROVED course through NCAA clearinghouse)
Prerequisites: Sophomore standing or greater, Biology and/or Ag Orientation, or teacher approval

This course combines the study of small and large domesticated animals with the study of agricultural plants and soil. Elements of animal science include nutrition and feeding principles, the study of mono-gastric and ruminant digestive systems, genetic theory, artificial insemination, embryo transplant, cloning, proper care of animals, and other management practices including animal rights and welfare. Topics and lab exercises from plant science include understanding, testing, and judging of soils; soil conservation; use of fertilizers and herbicides in the soil; weed, seed, and plant identification; crop selection, production, and management; seed germination and development.

Veterinary Science Credits: 1.0

Aligned with the ISBE Course Catalog – Veterinary Science (18105A000)
Prerequisites: Must be currently enrolled or successfully taken Ag Orientation.. Open to grades 11-12.

This course is for anyone who is interested in animal ownership, veterinary care, and management. Livestock and companion animal industries will be covered. We will develop technical knowledge and demonstrate practical skills in the field of veterinary science which will include professional ethics, decision-making, communication, and problem-solving skills. Technical competency with small and large animals in the areas of anatomy and physiology, clinical procedures, identification, health and safety, and medical terminology will be incorporated. Veterinary Science courses impart information about the causes, diagnosis, and treatment of diseases and injuries of animals, typically emphasizing domestic and farm animals. Course topics focus on anatomy and physiology, nutrition, behavior, reproduction, and more. Students will also have the opportunity to compete in the *Vet Science Career Development Event*.

Human Anatomy and Physiology (*A Weighted Course)* Credits: 1.0

Aligned with the ISBE Course Catalog – Anatomy and Physiology (03053A000)
Prerequisites: Successful completion with a C or higher in Biology 1 or teacher approval (Chemistry 1 strongly suggested)

This course examines various organ systems and the intricate functions of each to create the total living organism. It includes a detailed dissection of a mammalian species that shows close structural similarities to humans.

Units of Study: Basic Concepts of Body Structure, Energy and Matter, Cells, Cell Specialization (tissues), The Skeleton, Muscle Physiology, Muscle Action, Digestive System, Respiratory System, Cardiovascular System, Urinary System,

Advanced Chemistry II (*A Weighted Course)* Credits: 1.0

Aligned with the ISBE Course Catalog – Chemistry – Advanced Studies (03102A000)
Prerequisites: Successful completion of Chemistry I with a C or higher or teacher approval.

Advanced Chemistry is a college preparatory class. Various topics will be explored in this course and new, more difficult areas will be covered.

Units of Study include: Liquids and Solids; Properties of Solutions; Chemical Kinetics; Chemical Equilibrium; Acids and Bases; Applications of Aqueous Equilibrium; Spontaneity, Entropy, and Free Energy; The Nucleus; A Chemist's View; Organic Chemistry

Physics (*A Weighted Course)* Credits: 1.0

Aligned with the ISBE Course Catalog – Physics (03151A000)
Prerequisites: The successful completion of Physical Science and/or concurrent enrollment in Pre-Calculus or Calculus, Senior Status

Physics concepts to be studied will fall into four major areas: Astronomy, Mechanics, Electricity and Magnetism, and Optics. In these areas, theories of motion and behavior, their development through time, graphics, and formulas will be discussed. Mathematical applications of these theories will be utilized in problem-solving and laboratory methods.

Units of Study include: Mechanics (measurement, forces, motion, & energy); Electricity and Magnetism (motion, field, forces, circuits, formulas & meters; and Optics (wave motion & characteristics in audio & video)

Social Science

	Regular Track	Advanced Track
Freshman Year	World History (Prereq. for Contemporary Hist.) History of Vietnam War History of Nazi Germany & Holocaust History of Sports	World History (Prereq. for Contemporary Hist.) History of Vietnam War History of Nazi Germany & Holocaust History of Sports
Sophomore Year	Geography Psychology Current Events World History History of Vietnam War History of Nazi Germany & Holocaust History of Sports	Geography Psychology Current Events World History History of Vietnam War History of Nazi Germany & HolocaustHistory of Sports
Junior Year	**US History (1 credit) History of Vietnam War History of Nazi Germany & HolocaustHistory of Sports	**Adv. History (1 credit)*** History of Vietnam War History of Nazi Germany & Holocaust History of Sports
Senior Year	**Government (.5 credit) Modern US History (Elective) History of Vietnam War History of Nazi Germany & Holocaust History of Sports	**Government (.5 credit) Modern US US History History of Vietnam War History of Nazi Germany & Holocaust History of Sports

*** 2 ½ credits of history are required for graduation.**
**** Indicates a required course for graduation.**
***** Indicates a weighted course.**

World History — Credits: 1.0

Aligned with the ISBE Course Catalog – World History Overview (04051A000)
Prerequisites: None

In this course, students will study the ancient civilizations of the early world, including Egyptian, Chinese, and ancient Greeks. This course also covers the history of the world outside of the United States through the French Revolution and up to WWI.

Units of Study:
1. Civilization Begins: early humans, first civilizations (fertile crescent), empires, and religions in the Middle East
2. Age of Classical Civilizations: the rise of Greek Civilizations, Greek achievement, the Roman legacy
3. The Era of Regional Civilizations: Christendom and Islam; Rome and the Rise of Christendom; formation of Europe; growth of National Monarchies; Byzantine Empire and formation of Russia; Islam
4. Early Modern Era: Europe's transformation and expansion; European Renaissance; Age of Exploration; Reformation and National Power; Scientific Revolution; Early Modern Era of the Americas and formation of Latin America

U.S. History/Advanced U.S. History (Adv. US Hist. is *A Weighted Course)* — Credits: 1.0

Aligned with the ISBE Course Catalog – US History Comprehensive (04101A000)
Prerequisites: Junior Standing

Traces selected topics about America's heritage from colonial times to the present. Concentration is on forming and changing the government, territorial expansion, American wars, and political and economic situations. Topics such as the history of the

American slave trade, the vestiges of slavery in the United States; history of women; and holocaust and genocide study will also be discussed pursuant to Article 27 of Illinois School code

Units of Study:

1. Colonial Period through Western Expansion - includes first settlement, Revolutionary period, forming of our first government, War of 1812, Jacksonian Era, and Mexican/American War
2. Pre-Civil War to 1900 - causes of the Civil War, political changes and military campaigns in the war, reconstruction, and the territories in the West
3. The United States as a world power - includes the Spanish/American War, big business, World War I, the Depression, Franklin Roosevelt, and the New Deal, and World War II to the present.

Contemporary World History — Credits: 0.5

Aligned with the ISBE Course Catalog – – Modern World History (04053A000)
Prerequisite: Completion of World History

This class will pick up where world history ends, beginning with World War I and working up to the present day. Topics will include World War I, World War II, global interdependence, and terrorism, just to name a few.

Modern US History — Credits: 0.5

Aligned with the ISBE Course Catalog – Contemporary US Issues (54106A000)
Prerequisite: Enrollment or completion of US History

This class takes a comprehensive look at American life and institutions since the 1950s. Students will think, read, and write like a historian. The student will be asked to analyze primary and secondary sources, refine research skills, collaborate on group projects, and participate in classroom discussions. Topics covered include the Cold War in the US, Civil Rights, Space Race, Vietnam War, 80's-early 2000's.

American Government & Civics — Credits: 0.5

Aligned with the ISBE Course Catalog – US Government Comprehensive (04151A000)
Prerequisites: Junior or Senior standing

Introduction: An in-depth study of the United States government and an introduction to other forms of government used around the world. Current events affecting world governments will be woven into the course material. Units of study include The Basis of the United States Government, United States Citizenship and Civil Rights, the American Political System, Voter Rights, and Powers, Congress, Its' Powers and Taxation, The Presidency, His Powers and Policies, Government Regulation, and the Judicial Branch and Administrative Law. Constitutions - includes the Declaration of Independence, American Constitution, Illinois Constitution, as required by Article 27 of IL School Code

World Geography — Credits: 1.0

Aligned with the ISBE Course Catalog – World Geography (04001A000)
Prerequisite: Sophomore or higher standing

A course that begins by covering the elements of geography, maps, and general characteristics of nations including economic policy, population, government, and more. Students will then examine various nations throughout the world.

Current Events — Credits 0.5

Aligned with the ISBE Course Catalog—Contemporary US Issues (04106A000)
Prerequisite: Sophomore or higher standing

This course will focus on many of the social, political, and economic issues that face our nation. We will discuss the topics, as well as both sides of each argument. Students will also learn important news and media literacy skills.

Psychology — Credits: 0.5

Aligned with the ISBE Course Catalog – 04254A000
Prerequisite: Sophomore or higher standing

Psychology provides students with a systematic and scientific approach to the study of human behavior and mental processes. Students will explore various aspects of human behavior including theories of personality, aspects of thought processes, states of consciousness, motivation, and emotion, and the basic areas of mental illness.

History of the Vietnam War — Credits: 0.5

Aligned with the ISBE Course Catalog – 04109A000

In this course, students will study the origins and various aspects of the Vietnam War. We will be looking at the war from the perspectives of Americans and of the Vietnamese. Students will study the politics of the war and identify the geopolitical forces that fueled the Vietnam War. The class will examine the military strategy of the Vietnam War and identify the different countries and cultural groups that fought in the war along with examining the diverse experiences of Americans on the homefront during the Vietnam War.

History of Nazi Germany and Holocaust — Credits: 0.5

Aligned with ISBE Course Catalog - Social Sciences and History - Particular Topics in World History (04065A000)

In this course, students will study the origins and various aspects of the rise of Nazi Germany. We will be looking at that period from the perspectives of the Germans and the rest of the world. We will be using Richard Evans's book series as a basis for the class.

1. The Coming of the Third Reich - Students will identify the forces that led to the rise of the Third Reich.
2. The Third Reich in Power - Students will learn about the transition from Germany in 1933 when Hitler became Chancellor until when Germany invaded Poland to start World War 2
3. The Holocaust and the Final Solution - Students will learn about the Holocaust and the lives of defeated Germans post-war.

History of Sports — Credits: 0.5

Aligned with ISBE Course Catalog - Social Sciences and History - Other (04999A000)

This semester course examines how sports in the United States and around the world have developed over time. Students will study how sports have influenced and been influenced by factors such as race, gender, ethnicity, social class, commercialization, nationalism, and the media. Through readings, primary sources, documentaries, and class discussions, students will learn how athletics reflect major trends in history and continue to shape modern life.

Physical Education & Health

Health (Freshman Year)	PE Games	Fitness PE

***PE courses are not calculated towards a student's GPA.**
***4 years of PE are required for graduation unless a student fulfills a PE waiver requirement.**

Health — Credits: 0.5

Aligned with the ISBE Course Catalog – Health Education (08051A000)
Prerequisites: None. Students are required to take the course during their freshman or sophomore year.

This course is offered in hopes of educating the student about themselves and others. All three aspects of health (social, mental, and physical) will be discussed. Attending to all three aspects leads to a more enjoyable and productive life. Topics such as abduction, sexual assault awareness, anabolic steroids, and violence prevention and conflict resolution will also be explored pursuant to Article 27 of the Illinois School Code.

Physical Education – Games — Credits: 1.0

Aligned with the ISBE Course Catalog – Physical Education (08001A000)
Prerequisites: According to Illinois state law, all students except those exempted must be enrolled in a Physical Education during each semester of high school. Physical education classes do not affect a student's GPA.

The physical education - games classes provide activities and experiences that develop a lifelong appreciation for various types of activities. A variety of vigorous individual and team activities are offered. These activities provide opportunities for everyone regardless of skill level. The program is designed to offer a wide range of interests with carryover values to encourage the importance of physical fitness and good health habits.

Course Materials: A P.E. uniform is required. Students must have 1. Athletic Shorts (must adhere to the dress code) 2. T-shirt (must adhere to the dress code) 3. Tennis shoes

Physical Education – Fitness/Conditioning PE **Credits: 1.0**

Aligned with the ISBE Course Catalog – Fitness/Conditioning PE (08005A000)
Prerequisites: According to Illinois state law, all students except those exempted must be enrolled in a Physical Education during each semester of high school. Physical education classes do not affect a student's GPA.

Course Materials: A P.E. uniform is required. Students must have 1. Athletic Shorts (must adhere to the dress code). 2. T-shirt (must adhere to the dress code) 3. Tennis shoes 4. Binder

The physical education – fitness/conditioning classes provide activities and experiences for students who want to challenge themselves to condition and develop physical fitness. These activities will help develop muscular strength, flexibility, and cardiovascular fitness. These activities provide opportunities for everyone regardless of skill level. The program is designed to offer a wide range of interests with carryover values to encourage the importance of physical fitness and good health habits.

Coaching **Credits: .5**

Pre-requisites: Sophomore standing or higher

Coaching courses emphasize the responsibilities, duties, and problems in training and instructing athletes and athletic teams. Course topics typically include principles of behavior, teaching, physical and mental training, and team management. Different coaching philosophies, outcomes, and styles may also be covered.

Driver Education

Freshman and/or Sophomore Years	Driver's Ed. Classroom
	Behind the Wheel

*** Driver's ed. placement is based on birthdays and capacity of class.**

Driver Education Credits: 0.25 Classroom/0.25 Behind the Wheel

Aligned with the ISBE Course Catalog – Driver's Education-Classroom and Laboratory (08152A000)
Prerequisites: Students must be at least 15 or must attain the age of 15 while enrolled in the classroom driver's education course; students must have passed eight academic credit courses in the previous two semesters to be eligible to enroll in the classroom portion. Students must also complete 10 hours of behind the wheel experience with a parent or guardian before starting the behind the wheel portion of driver education at school.

Students attendance in driver's education is required. Based on state law, if students miss more than 10 days of classroom time, then they will be removed from the course and will have to repeat the course in its entirety. Students who have to be removed from the course, for attendance or grades, may have to wait until the following school year depending upon course availability.

Driver Education is set up to educate the students on the laws and regulations that one must obey while operating a motor vehicle. Preventive actions are stressed as opposed to escaping tactics in regard to accidents; although a certain degree of time is spent on car control and reacting to other motorist's mistakes. The student is required by law to complete at least six clock hours of practice driving as well as at least six hours of observation. Its objective is to offer limited experience situations that would serve as a foundation for the student to build upon.

Units of Study include: Preparing to drive; Driving in different environments; Traffic-citizen responsibilities including bus safety; Rules of the Road

Course Requirements:
1. Successfully complete 30 clock hours of classroom instruction by attending class and passing the course
2. Successfully complete six clock hours of behind-the-wheel practice driving
3. Pay instructional permit fee of $20.00 to Illinois Secretary of State
4. Pass vision test
5. There is a $100 fee for students enrolled in this class

Behind the wheel portion of driver education is graded on a pass-fail basis and is not counted toward a student's GPA.

Agriculture

Prerequisites for Step 2	Step 2: Prerequisites for Step 3	Step 3
Ag Orientation	Natural Resources Ag. Mechanics Ag. Science A & B (Sci. Credit) SAE Class Ag. Construction A & B Ag. Communication Vet Tech A & B (Sci. Credit) (Prereq. for Vet Tech II) Horticulture Ag. Leadership Food Science A & B	Ag. Machines & Sales Vet Tech. II Ag. Business Management (Resource Management Credit)
Welding I	Welding II	Welding III
Small Engines I	Small Engines II	
Ag Biology A & B		

Agriculture Orientation — Credits: 0.5

Aligned with the ISBE Course Catalog – Introduction to the Agricultural Industry (18001A001)
Prerequisites: Grades 9-12.

Agriculture Orientation is a beginning agriculture course designed for both male and female students. The course will introduce the importance of agriculture to the state and nation, career awareness, how to apply for a job, agriculture record keeping, the FFA organization, parliamentary procedure, and other leadership skills.

Units of Study include: Agriculture orientation of Illini Central High School; Illinois Agriculture and its' products; Career awareness (both agricultural and nonagricultural); How to look and apply for a job; How to conduct job interviews; Understanding the FFA organization; Learning how to keep FFA record books; Understanding the use and practice of parliamentary procedure; Development of other leadership skills

Ag Mechanics — Credits: 0.5

Aligned with the ISBE Course Catalog – Basic Agricultural Mechanics (18401A001)
Prerequisites: Successful completion of Agriculture Orientation or instructor's permission.

This course is designed for the beginning agriculture student with limited knowledge of the agricultural mechanics area. Mechanical areas to be introduced and covered are construction, electricity, power mechanics, and welding. Lab time will be spent in all four areas. Shop safety will be stressed in each lab area.

Units of Study include Agriculture Mechanics - importance in today's society; Construction: safety; buildings – wood framing; foundations – concrete & block; Electricity: safety, basic terms, cost, codes, formulas; farm & home wiring; Power Mechanics: safety; small engines – role in modern agriculture.; small engines – parts ID and tune-up; Welding: safety; arc welding – history, skills & uses; oxy-acetylene welding – history, skills & uses

Agriculture Communication — Credits: 0.5

Aligned with the ISBE Course Catalog – Agriculture Communications (18203A002)
Prerequisites: Must be currently enrolled or successfully taken Ag Orientation. Open to grades 11-12.

Students will learn primary leadership skills such as verbal and written communication skills, interview skills, and building a resume. Students will be able to successfully participate in the *Public Speaking,* and *Job Interview Leadership Development Events* as well as the *Agriculture Communications* and *Agriculture Issues Career Development Events*.

Agriculture Biology A (A science course) — Credits: 0.5

Aligned with the ISBE Course Catalog – Biological Science Applications in Ag - Plants (18051A002)

This course is designed to reinforce and extend students' understanding of science by associating basic scientific principles and concepts with relevant applications in agriculture. Students will examine major phases of plant growth and management in agriculture and the specific biological science concepts that govern management decisions. Topics of study are in the areas of initiating plant growth – cell structure and function , germination, plant sensory mechanisms, enzyme action, absorption, and managing plant growth – photosynthesis, respiration, translocation, metabolism, genetics, taxonomy and growth regulation. The course will be valuable preparation for further education and will increase the relevance of science through the applied setting of agriculture by enhancing literacy in science and the scientific process. 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 Biology B (A science course) — Credits: 0.5

Aligned with the ISBE Course Catalog –Agricultural Biology (18004A001)
Prerequisites: Agricultural Biology A

Agricultural Biology is designed for freshman and sophomore students interested in learning about food systems or the production, processing, distribution, and consumption of food products as well as the interactions of various aspects of food systems with the natural environment. Agricultural Biology will cover all major topics in life science including biochemistry, ecology, cells, reproduction, heredity, biological evolution and diversity. The course will cover the majority of the Performance Expectations in the following Illinois Learning Standards in Science as well as a few physical, earth and space science, and engineering design performance expectations: HS-LS1 - From Molecules to Organisms: Structures and Processes HS-LS2 - Ecosystems: Interactions, Energy, and Dynamics HS-LS3 - Heredity: Inheritance and Variation of Traits HS-LS4 - Biological Evolution: Unity and Diversity Specific emphasis will be placed on developing skills related to the Scientific and Engineering Practices and building Cross Cutting Concepts as students develop explanations for phenomena and solve real-world problems. 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.

Integrated Agricultural Animal and Plant Science A — Credits: 0.5

Aligned with the ISBE Course Catalog – Basic Agricultural Science (18003A001)
(NOT APPROVED course through NCAA clearinghouse)
Prerequisites: Sophomore standing or greater, Biology and/or Ag Orientation, or teacher approval

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.

Integrated Agricultural Animal and Plant Science B — Credits: 0.5

Aligned with the ISBE Course Catalog – Basic Animal Science (18101A003)
(NOT APPROVED course through NCAA clearinghouse)
Prerequisites: Sophomore standing or greater, Integrated Ag Science A, Biology and/or Ag Orientation, or teacher approval

This course is designed to introduce students to the livestock (beef, dairy, sheep, goats, and swine), poultry, and large (equine) animal industry and provide them with basic animal science knowledge that can be further developed in advanced animal science courses. Major units of instruction include animal science careers, animal anatomy and physiology, animal reproduction, animal nutrition, genetics, animal health, small and large animal care, and meat science. 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.

Veterinary Technology I A — Credits: 0.5

Aligned with the ISBE Course Catalog – Veterinary Science (18101A002)
(NOT APPROVED course through NCAA clearinghouse)
Prerequisites: Must be currently enrolled or successfully taken Ag Orientation. Open to grades 11-12.

This course is for anyone who is interested in animal ownership, veterinary care, and management. Livestock and companion animal industries will be covered. We will develop technical knowledge and demonstrate practical skills in the field of veterinary science which will include professional ethics, decision-making, communication, and problem-solving skills. Technical competency with small and large animals in the areas of anatomy and physiology, clinical procedures, identification, health and safety, and medical terminology will be incorporated. Veterinary Science courses impart information about the causes, diagnosis, and treatment of diseases and injuries of animals, typically emphasizing domestic and farm animals. Course topics focus on anatomy and physiology, nutrition, behavior, reproduction, and more. Students will also have the opportunity to compete in the *Vet Science Career Development Event*. Fulfills science credit requirement.

Veterinary Technology I B — Credits: 0.5

Aligned with the ISBE Course Catalog – Veterinary Science (18105A001)
(NOT APPROVED course through NCAA clearinghouse)
Prerequisites: Must be currently enrolled or successfully taken Ag Orientation. Open to grades 11-12.

This course will develop students' understanding of the small and companion animal industry, animal anatomy and physiology, animal ethics and welfare issues, animal health, veterinary medicine, veterinary office practices, and animal services to humans. Topics to be discussed include veterinary terminology, anatomy and physiology, pathology, genetics, handling and restraint, first-aid, and physical examinations along with common surgical skills. Career exploration will focus on veterinarian, veterinary lab technicians, office lab assistant, small animal production, research lab assistant, and animal nutrition lab technician. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and 18 Agriculture, Food, and Natural Resources 433 Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Veterinary Technology II (a continuation of Veterinary Science) — Credits: 0.5

Aligned with the ISBE Course Catalog – Advanced Veterinary Science (18105A003)
Prerequisites: Veterinary Technology I A & B. Open to grades 11-12.

Advanced Veterinary Science prepares students for careers in the field of animal science and veterinary medicine. Students will attain academic skills related to animal systems, animal industry workplace practices, and develop knowledge of the animal industry. Students will be placed in a variety of settings to assist in various medical applications and procedures. Students will be exposed to a wide range of scientific principles, such as genetics, anatomy, physiology/nutrition, disease, pests, and management practices. The scientific processes of observation, measurement, hypothesizing, data gathering, interpretation, analysis, and application are a focus. Career opportunities and related post-secondary programs are explored and examined. Learning activities are varied, with classroom, laboratory, hands-on activities, and field experiences emphasized. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects are an integral course component for leadership development, career exploration, and reinforcement of academic concepts.

Horticulture — Credits: 0.5

Aligned with the ISBE Course Catalog – Basic Horticulture Science (18052A001)
Prerequisites: Must be currently enrolled or successfully taken Ag Orientation. Open to grades 10-12.

This course is designed to introduce students to the horticulture industry and provide them with basic plant science knowledge that can be further developed in advanced horticulture courses. Major units of instruction include horticulture research, horticulture careers, plant anatomy, seed germination, plant propagation, growing media, pest management, hydroponics, identifying horticultural plants, growing greenhouse crops, and an emphasis on 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.

Agriculture Leadership — Credits: 0.5

Aligned with the ISBE Course Catalog –Agriculture Leadership (18203A003)
Prerequisites: Must be currently enrolled or successfully taken Ag Orientation.. Open to grades 11-12.

Agricultural Leadership courses help students develop leadership skills with a focus on opportunities in the food, fiber, and natural resources industries. Topics may include but are not limited to human relationships and effective communication, decision-making and problemsolving, leadership qualities and styles, and ensuring successful completion of group activities. Students will learn to lead groups and teams, manage volunteers, exercise leadership ethics, and be able to demonstrate leadership in multicultural settings. 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 Machinery Management & Sales — Credits: 0.5

Aligned with the ISBE Course Catalog – Agricultural Machinery Service (18449A001)
Prerequisites: Agriculture Orientation and at least two semesters of agriculture courses or instructor's permission.

This course is designed to develop student knowledge and skills in agriculture sales and marketing, commodity marketing, agriculture economics, and international agriculture. Instructional units include: successfully starting an agribusiness, developing a marketing plan pricing, advertising, and selling products and services, communicating with customers, applying commodity trading techniques, basic economic principles, the international agribusiness economy, and agricultural career opportunities. Student skills will be enhanced in math, reading comprehension, communications, and writing through agribusiness applications. Improving computer and workplace skills will be a focus. Participation in FFA organization activities and Supervised Agriculture Experience (SAE) projects is an integral course component for leadership development, career exploration, and reinforcement of academic concepts.

Agriculture Business Management — Credits: 0.5

Aligned with the ISBE Course Catalog – Agricultural Business Management (18201A001)
Prerequisites: Agriculture Orientation and at least two semesters of agriculture courses or instructor's permission.

This course will provide students with the basic knowledge and skills necessary to manage personal finances and develop into successful entrepreneurs and/or businesspersons. 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, sales and marketing, economic principles, 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 are an integral course component for leadership development, career exploration, and reinforcement of academic concepts. Fulfills consumer ed/resource management course.

Food Science A — Credits: 0.5

Aligned with the ISBE Course Catalog – Food Science Technology (18305A001)
Prerequisites: Must be currently enrolled or successfully taken Ag Orientation. Open to grades 10-12.

This course provides learning experiences in food science and safety which allow students to apply scientific knowledge and processes to practices used in the development and preservation of food products. Issues of food science and safety are examined from a scientific and technological perspective. Students critically analyze information to evaluate and draw conclusions on the appropriate use of technology to implement food science and safety practices. Units of instruction include: principles of food preservation, food processing, biochemistry of foods, and food selection and consumer health. Careers to be examined include meat inspector, quality control technician, food processor, and sanitation supervisor. Students will use scientific and technological information about food science and safety as a part of developing career plans and personal viewpoints on societal issues concerning the development and preservation of food products. 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.

Food Science B — Credits: 0.5

Aligned with the ISBE Course Catalog – Food Manufacturing & Management (18305A002)
Prerequisites: Must be currently enrolled or successfully taken Ag Orientation. Food Science A. Open to grades 10-12.

Food Manufacturing & Management introduces students to the principles and practices of food safety, processing, and packaging to develop solutions for problems in food production, handling, and storage. Learners will examine the full range of food processing techniques. Learners will examine the process of food product development and techniques used to measure food sensory aspects, shelf life, and food stability. Learners will examine government regulation's impact on labeling, new packaging technologies, harvesting, transportation, and the environment. Food laws, regulations, and regulatory and commercial grading standards will be examined. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects are an integral course component for leadership development, career exploration, and reinforcement of academic concepts.

Natural Resources — Credits: 0.5

Aligned with the ISBE Course Catalog- Basic Natural Resources Management (18504A003)
Prerequisites: Agriculture Orientation

Natural Resources is a course that investigates the assets found in our environment and how we can help ensure the existence of Natural Resources. We will determine the eight groups of natural resources and how to subdivide them into smaller groups. We will use an enclosed fish system to grow various types of fish.

Units of study include identification and definition of different types of natural resources, renewable and nonrenewable resources, differences between inexhaustible and exhaustible resources, the concept of interdependent relationships, Understanding Ecosystems and conservation

Supervised Agricultural Experience (SAE) — Credits: 0.5

Aligned with the ISBE Course Catalog-Foundational Supervised Agricultural Experience (18999A001)
Prerequisites: Agriculture Orientation. Offered in Spring Semester only

The Supervised Agricultural Experience (SAE) is an integral component for leadership development, career exploration, and reinforcement of overall agriculture learning. This is a semester-long class where students will perfect their skills in record bookkeeping. Students will keep a record book on their SAE project throughout the semester. It will enhance their skills in financial standings, Net Worth, Receipts, and Expenses.

Agricultural Construction and Technology A — Credits: 0.5

Aligned with the ISBE Course Catalog – Agricultural Construction and Technology (18403A001)
Prerequisites: Successful completion of Ag. Orientation. Open to grades 11-12.

This advanced course focuses on the knowledge, hands-on skills, and workplace skills applicable to construction in the agricultural industry. Major units of instruction include personal safety, hand tools, power tools, blueprint reading, surveying, construction skills in carpentry, plumbing, electricity, concrete, block laying, drywall, and painting. Careers such as agricultural engineers, carpenters, plumbers, electricians, concrete and block layers, finishers, safety specialists, and other related occupations will be examined. Improving workplace and computer skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects are an integral course component for leadership development, career exploration, and reinforcement of academic concepts.

Agricultural Construction and Technology B — Credits: 0.5

Aligned with the ISBE Course Catalog – Advanced Agricultural Construction (18403A002)
Prerequisites: Successful completion of Ag. Orientation and Ag Constructions A. Open to grades 11-12.

Advanced Agricultural Construction courses include an integrated way to learn geometry through the application in construction. The structural concepts within the course are organized to complement the skills and the knowledge learned in geometry lessons. Students will experience working days on a job site or technical project, as well as classroom experiences, focused on the development and review of geometry concepts. On working days, students will collaborate to build anything from sawhorses and modular furniture to manufactured housing and tiny homes. The course will provide students the opportunity to immediately apply what they are learning about geometry to their projects and buildings. 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.

Welding I — Credits: 0.5

Aligned with the ISBE Course Catalog – Agriculture Welding (18404A001)
Prerequisites: Grades 10-12 with at least 85% attendance the previous year.

Welding is a semester course, which will introduce the basics of arc welding and oxygen-acetylene welding.

Units of study include History of arc and acetylene welding, safety techniques, welding equipment and accessories, identification and characteristics of the different welding electrodes; proper selection techniques of the electrodes, understanding, and practice of the different types of welds, understanding of the oxygen-acetylene process, cutting with the torch

Welding II — Credits: 0.5

Aligned with the ISBE Course Catalog– Advanced Metal Fabrication (18401A002)

Prerequisite: Completion of Welding I: Grades 10-12 with at least 85% attendance the previous year.

We will use the fundamentals of welding to build a project from steel using Mig, Stick, Tig, or Brazing to complete the project. This class is to prepare students who want to continue in the welding field.

Welding III — Credits: 0.5

Aligned with the ISBE Course Catalog– Advanced Agricultural Welding (18404A002)

Prerequisite: Completion of Welding I: Grades 10-12 with at least 85% attendance the previous year.

We will use the fundamentals of welding to build a project from steel using Mig, Stick, Tig, or Brazing to complete the project. This class is to prepare students who want to continue in the welding field.

Small Engines I — Credits: 0.5

Aligned with the ISBE Course Catalog – Agricultural Mechanics and Technology (18402A001)
Prerequisites: Grades 10-12 with at least 85% attendance the previous year.

Small Engines is a course dealing with the principles and operations of the four and two-cycle engines. Basic maintenance and overhaul procedures will be discussed.

Units of study include principles and operations of a two and four-cycle engine, operation of the intake, compression, exhausts, and power strokes; use and practice of the micrometer, power, ignition and carburetor systems, identification of small engine parts and tools, disassembly and assembly of an engine, troubleshooting principles, maintenance procedures

Small Engines II — Credits: 0.5

Aligned with the ISBE Course Catalog—Agricultural Engine Maintenance (18405A003)
Prerequisite: Completion of Small Engines I: Grades 11-12 with at least 85% attendance the previous year. Offered the second semester only.

This course provides students with the opportunity to learn how to operate, service, and recondition agricultural power units, emphasizing two- and four-cycle small gasoline engines. This class will provide students with opportunities to troubleshoot and repair speed controls, lubrication, ignition, fuel, power transfer, cooling, exhaust, and starting systems; use hand, power, and overhaul tools; and read and interpret service manuals and parts' catalogs. Additional units of instruction may include power transmission, electrical, and hydraulic/pneumatic systems. Applications may include lawn mowers, tractors, tillers, power tools, and so on. Improving workplace skills will be a focus in this course. 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.

Business and Technology

Prerequisistes for Step 2	**Step 2**
ITCA (Freshman Year - Required)	Career Skills
Accounting I	Accounting II
Resource Management (Junior or Senior Year - Required) Career Skills (Junior/Seniors) Image Editing	Intro to Coding* Web Design A & B
Multimedia & Communications “The Class” 1 A & B	Multimedia & Communications “The Class” 2 A & B

***Course requires successful completion of certain math classes**

Introduction to Computer Applications (ITCA) Credits: 0.5

Aligned with the ISBE Course Catalog – Computer Concepts and Software Applications (10003A001)
Prerequisites: None. Required for all freshmen

An orientation-level course that focuses on online-based computer applications most commonly used in higher education, and businesses. The course will introduce students to the many tools and features of Google Drive, Gmail, Docs, Sheets, Slides, Forms, Drawings, Sites, and Meet. Students learn key Google Apps skills essential to communicating, sharing, and collaborating in the classroom and beyond. This course will also dive into media literacy covering how to evaluate, analyze, create, and reflect on various media outlets. This course will also cover social responsibility related to media consumption.

Career Skills Credits: 0.5

Aligned with the ISBE Course Catalog – Career Exploration (22151A001)
Prerequisites: None. This is primarily a junior or senior level course.

To prepare students for life after high school, specifically for college and the workforce with a focus on computer-based skills. These skills include but are not limited to presentation creation, spreadsheet management, resume building, and various types of written communication. The course will utilize Microsoft Office products as well as Google products to teach the aforementioned skills.

Resource Management Credits: 0.5

Aligned with the ISBE Course Catalog – Consumer Economics/Personal Finance (19262A001)
Prerequisites: None. This is primarily a junior or senior level course and is a graduation requirement for all students.

A required course to empower students with knowledge and application of basic financial principles so that they can make sound financial decisions for life. The course will empower students by reinforcing academic skills, developing flexible knowledge, enhancing financial literacy skills, developing informed money-management strategies, stimulating interest in financial management, inspiring them to achieve financial well-being, and fostering an understanding of ethical money management.

Units of study include Saving, Budgeting & Banking, Debt (Credit Cards, Mortgages, etc.), Life After High School (Students Loans), Investing & Retirement, and Insurance & Taxes.

Introduction to Accounting — Credits: 0.5

Aligned with the ISBE Course Catalog – Accounting I (12104A001)
Prerequisites: Successful completion of Algebra I and Geometry

A course that assists students in pursuing a career in accounting, business, marketing, and/or management, this computer-based course may serve as one of the computer-related requirements. This course will focus on the accounting for a service business organized by a proprietorship, by teaching the very basics of accounting. Accounting I will cover the accounting equation, debits & credits, recording transactions in a journal, posting to a general ledger, cash control systems, worksheets, financial statements, and adjusting & closing entries.

Accounting II — Credits: 0.5

Aligned with the ISBE Course Catalog – Accounting I (12104A002)
Prerequisites: Accounting I, or with teacher approval

A course that builds upon the foundation established in Accounting I. This course will focus on accounting for a merchandising business organized as a corporation. New concepts taught in the course are journalizing transactions using special journals, posting to subsidiary ledgers, preparing payroll records, payroll accounting, & distributing dividends.

Image Design and Editing — Credits: 0.5

Aligned with the ISBE Course Catalog Digital Graphics (11154A003)
Prerequisites: None (Introductory Course) Open to grades 9-12.

In our increasingly digital world, the ability to create, manipulate and edit images is applicable over many different career fields. This introductory photo editing and design course is for students who want to create compelling, professional-looking images. Students learn the basics of composition, color, and layout through the use of hands-on projects that allow them to use their creativity while developing important foundational skills. We will use Adobe Photoshop to create a variety of projects involving the mastery of technical editing skills and the creation of original digital content. Projects may include working with layers and masks, adding special effects, and effectively using typefaces to create visual impact. Career fields that involve the use of high-impact images will also be discussed, including marketing, web design, product development, digital app design, and more.

Introduction to Coding (Python) A — Credits: 0.5

Aligned with the ISBE Course Catalog Computer Operations and Programming 1 (10152A001)
Prerequisites: Completion of ITCA and Algebra 1, and completion or enrolled in Geometry or Teacher Approval

This course teaches the foundations of computer science and basic programming, emphasizing helping students develop logical thinking and problem-solving skills. Units of study include Intro to Programming with Turtle Graphics, Basic Python and Console Interaction, Conditionals, Looping, Functions and Exemptions, Strings, Creating and Altering Data Structures, and Extending Data Structures.

Introduction to Coding (Python) B — Credits: 0.5

Aligned with the ISBE Course Catalog Computer Operations and Programming 2 (10152A002)
Prerequisites: Completion of ITCA and Algebra 1, and completion or enrolled in Geometry or Teacher Approval. Successful completion of Introduction to Coding (Python) A

This course is a continuation of Introduction to Coding (Python) A. This course continues to teach the foundations of computer science and basic programming, emphasizing helping students develop logical thinking and problem-solving skills. Units of study include Intro to Programming with Turtle Graphics, Basic Python and Console Interaction, Conditionals, Looping, Functions and Exemptions, Strings, Creating and Altering Data Structures, and Extending Data Structures.

Web Design — Credits: 0.5

Aligned with the ISBE Course Web Page and Interactive Media Development I (10201A001)
Prerequisites: Completion of ITCA

In today's world, web pages are the most common medium for sharing ideas and information. Learning to design websites is an incredibly useful skill for any career path. This course teaches students how to build their own web pages. Students will learn the language of HTML and CSS and will create their own live homepages to serve as portfolios of their creations. By the end of the semester, students will be able to explain how web pages are developed and viewed on the internet, analyze and fix errors in existing websites, and create their very own multi-page websites.

Multimedia & Communication Technology 1 A(The Class) Credits: 0.5

Aligned with the ISBE Course Communication Technology (11002A001)

Multimedia & Communication Technology is a course designed to promote an appreciation & understanding of the technologies used to communicate in today's evolving society. The course will cover Illini Central news, sports, activities, & events. Students will execute this by live streaming Illini Central activities using the Illini Central Sports Network, and creating multimedia for school events/happenings (among other original projects/creations). Students will be required to devote time outside normal school hours as part of the Multimedia & Communication Technology course. Students must be either a Junior or Senior to be selected for the course. Additionally, students will assist teachers in implementing multimedia in their classrooms. Through the curriculum, students will learn the following:

Podcasting
- Broadcasting (YouTube)
- Equipment Maintenance

OBS Software
- Video Editing (iMovie)
- Website Management

- Adobe Creative Cloud
- Social Media

Multimedia & Communication Technology 1 B (The Class) Credits: 0.5

Aligned with the ISBE Course Beginning Audio/Visual Production (11051A003)

Beginning Audio/Visual Production course provide students with the basic knowledge and skills necessary for television, video, film, and/or radio production. Camera operation, use of graphics and other visuals, lighting, audio techniques, editing, production principles, and career opportunities are typical topics covered within this course. (Available SY 2012-.)

Multimedia & Communication Technology 2 A (The Class) Credits: 0.5

Aligned with the ISBE Course Digital Media Technology (11151A001)

These courses are designed to give students the skills necessary to support and enhance their learning about digital medial technology. Topics covered in the course may include internet research, copyright laws, web-publishing, use of digital imagery, electronic forums, newsgroups, mailing lists, presentation tools, and project planning. (Available SY 2022-.)

Multimedia & Communication Technology 2 B (The Class) Credits: 0.5

Aligned with the ISBE Course Digital Media Design & Production (11153A001)

Digital Media Design and Production courses teach students the fundamentals of graphic design and production and provide students with the opportunity to apply these principles to printed media, digital presentation media, and interactive media.

Family and Consumer Science

Prerequisites for Step 2	**Step 2: Prereqs. for Step 3**
Fashion Design Fashion Marketing Interior Design Parenting Child Development Adult Living (Juniors and Seniors only) Intro to FACS	
Foods & Nutriion 1	Foods & Nutrition 2
Culinary Arts A	Culinary Arts B

Intro to Family and Consumer Science **Credits: 0.5**

Aligned with the ISBE Course Intro to Family & Consumer Science (19251A001)

This course introduces students to the field of family and consumer sciences and the many career opportunities available in this broad field. The course includes theory and laboratory experiences in the following content areas: Nutrition and culinary arts; textiles and design; family, career, and community leadership development; resource management; human development and life-long learning; facility design, care, and management; and interpersonal relationships and life management skills.

Fashion Design **Credits: 0.5**

Aligned with the ISBE Course Textiles & Design I (19201A001)

This course is designed to provide basic knowledge and understanding of the design, development, and production of textile products. Through hands-on and project based learning experiences students will discover fiber characteristics, fabric construction methods, elements of science and design in textiles and apparel, and basic construction skills used in interior 19 Human Services 467 furnishings and apparel industries. This course emphasizes awareness and investigation of careers and industry trends in textiles.

Fashion Marketing **Credits: 0.5**

Aligned with the ISBE Fashion, Apparel, & Textile Service (19204A001)

This course prepares students for employment and higher education programs of study related to the broad spectrum of careers encompassed in fashion, apparel, and textile industries. This course provides students with opportunities to: analyze the influences of social, cultural, and environmental diversity in the fashion, apparel, and textile industry; investigate applicable 19 Human Services 453 regulatory and policy issues; assess product quality; develop a design portfolio; refine and develop industry skills necessary to employment in fashion, apparel, and/or textiles; model proper safety procedures; communicate with potential customers/clients using industry terminology; perform operational functions; and research current industry employment opportunities, including the investigation of entrepreneurship.

Foods & Nutrition I **Credits: 0.5**

Aligned with the ISBE Course Nutrition and Culinary Arts I (16054A001)

This course includes classroom and laboratory experiences needed to develop a knowledge and understanding of culinary principles and nutrition for people of all ages. Course content encompass': food service and preparation management using the decision-making process; meeting basic needs by applying nutrition concepts; meeting health, safety, and sanitation

requirements; maximizing resources when planning/preparing/preserving/serving food; applying hospitality skills; analyzing nutritional needs in relation to change; and careers in nutrition and culinary arts, including entrepreneurship investigation.

Foods & Nutrition II — Credits: 0.5

Aligned with the ISBE Course Nutrition and Culinary Arts II (16054A002)

Nutrition and Culinary Arts II 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.

Culinary Arts A — Credits: 0.5

Aligned with the ISBE Course Culinary Occupations I (16052A001)

This course provides terminology, culinary math, and practical experiences needed for the development of culinary competencies and workplace skills. Safety and sanitation instruction and classroom application will prepare students for an industry recognized sanitation exam. Classroom experiences will develop skills to work in the front of the house, back of the house, and work stations. Additional content may include: event planning, customer service and relations, food service styles, baking and pastry arts, hors d'oeuveres, and breakfast cookery. Students will be provided opportunity training experiences on commercial equipment.

Culinary Arts B — Credits: 0.5

Aligned with the ISBE Course Culinary Occupations II (16055A001)

Culinary Occupations II places special emphasis for students to develop operational management skills-including design and organization of food service systems in a variety of settings, human relations, and personnel training and supervision. Additional topics include: food cost accounting; taking inventory; advertising; monitoring consumer and industry trends; and individualized mastery of culinary techniques. Training experiences involve equipment and facilities simulating those found in business and industry.

Parenting — Credits: 0.5

Aligned with the ISBE Course Child Development and Parenting (19052A001)

Child Development and Parenting addresses the knowledge, skills, attitudes, and behaviors associated with supporting and promoting optimal growth and development of infants and children. The focus is on research-based nurturing and parenting practices and skills, including brain development research, that support positive development of children. Students will explore opportunities in human services and education-related careers and develop a career portfolio.

Child Development — Credits: 0.5

Aligned with the ISBE Course Early Childhood Education (19153A001)

This course prepares students to guide the development of young children in an educational setting through classroom and job shadowing experiences. Course content includes child development, care, and education issues. Project-based learning experiences include planning and implementing developmentally appropriate activities, basic health and safety practices, and legal requirements of teaching young children. Students will research the requirements of early childhood education careers and develop/expand their career portfolio.

Adult Living — Credits: 0.5

Aligned with the ISBE Course Work Family Relationships (19259A001)

Work and Family Relationship is a project-based course that emphasize building and maintaining health interpersonal relationship among families, communities, society, and workplace. These courses often emphasize (but are not limited to) topics such as balancing the responsibilities of a family and career, human sexuality and reproduction, parenthood and the function of the family unit, the family life cycle, life stages, and social interactions and interpersonal relationships. The 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. analyzing personal standards, needs, aptitudes and goals; roles and responsibilities of living independently and as a family member;

demonstrating goal-setting and decision-making skills; identifying and utilizing community resources; and developing effective relationships to promote communication with others. The course provides students content to identify resources that will assist them in managing life situations.

Interior Design **Credits: 0.5**

Aligned with the ISBE Course Work Interior Design (05193A000)

Interior Design courses emphasize applying the fundamental processes of artistic expression to design an interior living or working space. Students analyze and apply a variety of media, techniques, and processes in their interior design work. Courses may also include an understanding of aesthetic issues associated with interior design. Students study the art or process of designing the interior of a room or building and focus on enhancing the interiors of a space to achieve a healthy and more aesthetically pleasing environment. Students will study interior designs from historical, contemporary, and world cultures. Students engage in critique of their interior designs, the designs of others, and designs by professional interior designers for the purpose of reflecting on and refining work for presentation.

Fine Arts

Prerequisites for Step 2	**Step 2: Prereqs. for Step 3**	**Step 3**
Intro to Art	Ceramics	Independent Art (must has taken all prereqs. or have teacher permission)
	Drawing	
	Mixed Media	
	Painting	
	Graphic Design (Junior & Seniors Only)	

Introductory Art **Credits: 1.0**

Aligned with the ISBE Course Catalog – Creative Art-Comprehensive (05154A000)
Prerequisites: None. This is an introductory course open to any student in grades 9-12.

This is an introductory course open to any student in grades 9-12. This course focuses on elements and principles of design and is a prerequisite for all other art classes (except for Graphic Design). We will cover the language, material, and processes of particular art forms, and students are encouraged to develop their own artistic styles. The student's grade will be based on his/her performance on assigned tasks. Areas such as skill, creativity, and effort will be evaluated. The class will utilize lecture-discussion periods followed by studio experience. An overview of work by other artists usually accompanies each unit. A "hands-on" approach is employed throughout the class.

Ceramics I **Credits: 0.5**

Aligned with the ISBE Course Catalog –Sculpture (05158A000)
Prerequisite: Successful completion of Intro to Art

This class emphasizes 3-D art forms made out of a variety of materials that can include clay, glaze, and paint. Technical skills are developed by the use of the equipment employed in class. Areas such as skill, creativity, neatness, and efforts will be evaluated. Each student will be assessed according to individual progress and not compared to fellow students. The class will utilize lecture-discussion periods followed by studio experience. Experimentation is encouraged between units. An overview of work by other artists usually accompanies each unit. Specific units of study will vary but may include projects such as pottery wheel work, functional pieces, coil pieces, totems, slab constructions, and face designs.

Ceramics II — Credits: 0.5

Aligned with the ISBE Course Catalog – Creative Art-Sculpture (55158A000)
Prerequisite: Successful completion of Intro to Art & Ceramics I

This course addresses the combination of sculpture and three-dimensional design. This class emphasizes 2D and 3D art forms made from a variety of materials that can include clay, plaster, paper, and more. Technical skills are developed by the use of equipment in class. Areas such as skill, creativity, neatness, and efforts will be evaluated. Each student will be assessed according to individual progress. This class utilizes lectures, focus artist studies, discussions, sketchbook assignments, studio experiences, projects, and assessments/reflections. During this course students will also learn to use a variety of media, materials, and techniques through many three-dimensional and collaging approaches, including (but not limited to) figurative or non-figurative sculpture, architectural models, 3D technology design, ceramics, plaster, installation, integrating text, and collage art. Students will work from historical and contemporary studies, observation, memory, and imagination to create work that is original and speaks in a meaningful voice.

Drawing — Credits: 0.5

Aligned with the ISBE Course Catalog – Creative Art-Drawing (05156A000)
Prerequisite: Successful completion of Intro to Art

This course's focus is on drawing, each student building on the skills he/she already has. The student's grade will be based on Page | 21 Illini Central High School individual performance on assigned tasks. Areas such as skill, creativity, and effort will be evaluated. Each student will be assessed according to individual progress and not compared to fellow students. Units of study may include: Still-life drawings, studying objects- applying accurate shape, proportions, and shading, one/two-point perspective drawings, optical illusions, face proportions, insect research drawings, human eyes, and enlarging a gridded image/working from a photograph.

Painting — Credits: 0.5

Aligned with the ISBE Course Catalog – Creative Art- Painting (05157A000)
Prerequisite: Successful completion of Intro to Art and Drawing, or teacher approval

The painting class builds on the skills students have strengthened in Drawing. Many styles and techniques are explored. Again, areas such as skill, creativity, and effort will be evaluated. Each student will be assessed according to individual progress and not compared to fellow students. The majority of the grade is based on performance with the given task. Experimentation is encouraged between units. An overview of work by other artists usually accompanies each unit. Units of study include; color theory – representing the relationships of color with paint, painting from photographs, watercolor, realistic landscape, portraits, animals, and texture.

Graphic Art Design A — Credits: 0.5

Aligned with the ISBE Course Catalog – Graphic Communications (11154A001)
Prerequisites: Junior/Senior standing only.

This course provides learning experiences common to all graphic communications occupations, as it relates and applies creative expression and design principles to the field of advertising and commercial art. The course offers practical experiences in generating original ideas, executing layouts, selecting of appropriate drawing tools and media, the use of the computer as a communication tool, and preparing artwork for reproduction. Students enrolled in this course will also apply these principles to the creation of the annual ICHS yearbook. Activities allow students to become knowledgeable of fundamental principles and methods and to develop technical skills related to the graphic arts industry.

Graphic Art Design B — Credits: 0.5

Aligned with the ISBE Course Catalog – Graphic Communications II (11154A002)
Prerequisites: Junior/Senior standing only & Graphic Art Design A

Graphic Communications II provides learning experiences related to the tools, materials, processes and practices utilized in the printing industry. Instruction is provided in industrial safety; stencil preparation and duplicating equipment operation; print screen preparation and printing; machine typesetting; ink and color preparation; assembly, binding, and trimming operations; layout, digital paste up and copy preparation. In addition the course provides the student with learning experiences in the use of cameras and photographic equipment, development and processing of photographic negatives and prints, negative stripping and related platemaking procedures, photocomposition, photoengraving, lithography, and offset presswork. Use of the computer in graphic arts occupations should be emphasized..

Independent Art **Credits: 0.5**

Aligned with the ISBE Course Catalog – Visual Arts—Independent Study (05197A000)
Prerequisites: Completion of all art classes, and instructor's permission. Can be taken a maximum of two times.

This course should be taken by students who are interested in pursuing the visual arts at a college level. Students participating in this program must be deemed capable of working independently and be self-driven. The student and instructor build the format of the course jointly based on the student's unique goals and focus for their future. This course is made available for the serious art student who has achieved a level of proficiency found acceptable by the instructor. Individual growth and responsibility also reflect on the individual's grade. Units of study, course requirements, and class organization to be arranged between student and instructor.

Foreign Language

Non-honors Path	Honors Path
Spanish IA	Spanish I**
Spanish IB (beginning 2027-2028)	Spanish II**
Spanish II**	Spanish III**
Spanish III**	Spanish IV**

*** Spanish classes must be taken in sequence.**
**** Indicates a weighted course.**
***** College bound students should take at least 2 years of Spanish. 4 years is recommended.**

Spanish IA **Credits: 1.0**

Aligned with the ISBE Course Catalog Spanish I (24052A000)
Prerequisites: Completion of middle school English Language Arts and a willingness to learn a world language.

Spanish IA is designed to introduce the student to the Spanish language and Hispanic culture at a more approachable pace than the weighted Spanish I course. It provides the opportunity to experience the language and culture through the five major language skills. The student will be involved in reading, writing, speaking, listening to Spanish, and studying Hispanic culture, with additional time to process the content being studied. Students broaden their horizons and reinforce the structural make-up of the English language. This course will prepare students to progress to the Spanish IB course in their second year of study. By the conclusion of this two-course sequence, the student should be able to read, write, speak and understand Spanish at a basic level, as if they had completed the weighted Spanish I. It is advisable for students who have previously struggled in Language Arts classes to begin with this path of study in order to build a stronger foundation for completion of upper level Spanish courses.

Spanish IB **Credits: 1.0**

Aligned with the ISBE Course Catalog Spanish I (24052A000)
Prerequisites: Completion of Spanish IA with passing grades in both semesters

Spanish IB is designed as a continuation of Spanish IA as a second year of language study. The pacing of this course with align with the expectations of the Spanish IA course, building on the skills of reading, writing, speaking, listening to Spanish, and continuing students' introduction to Hispanic culture. This course will encompass the second half of the weighted Spanish I curriculum so that with the completion of this two-course sequence, the student should be able to read, write, speak and understand Spanish at a basic level, as if they had completed the weighted Spanish I. It will be recommended that students who successfully complete this two-year path and wish to pursue Spanish language study after high school continue on to

take Advanced Spanish II as a third year of study.

Advanced Spanish I (A Weighted Course) Credits: 1.0

Aligned with the ISBE Course Catalog Spanish I (24052A000)
Prerequisites: Strong Language Arts skills and a desire and willingness to learn a world language.

Spanish I is designed to introduce the student to the Spanish language and Hispanic culture. It provides the opportunity to experience the language and culture through the five major language skills. The student will be involved in reading, writing, speaking, listening to Spanish, and studying Hispanic culture. Through the study of a second language, a student broadens his or her horizons, is more tolerant of others, practices self-discipline, and reinforces the structural make-up of the English language. By the conclusion of the course, the student should be able to read, write, speak and understand Spanish at a basic level. The study of foreign language in high school is recommended and/or required by many colleges and universities; therefore this weighted introductory Spanish course has a focus on preparing students for the rigors of post-high school academics.

Advanced Spanish II (A Weighted Course) Credits: 1.0

Aligned with the ISBE Course Catalog Spanish II (24053A000)
Prerequisites: Completion of Spanish I (or Spanish IA and Spanish IB) with passing grades in both semesters

Spanish II is designed to be a continuation of Spanish I. Reading, writing, speaking, and listening to Spanish are practiced and skills in these areas are further developed. An additional emphasis is placed on the students feeling comfortable conversing in Spanish and being able to express themselves in writing in Spanish In addition to the written expression, textbook-linked target language audio and video resources are used to further develop listening skills and speaking techniques. The students are encouraged to practice their Spanish speaking skills as much as possible during class. This course provides the second year of foundational world language skills that many colleges and universities recommend or require.

Advanced Spanish III (A Weighted Course) Credits: 1.0

Aligned with the ISBE Course Catalog Spanish III (24054A000)
Prerequisites: A grade of C or better in both Spanish I & II

Spanish III is designed to emphasize four communication skills - listening, speaking, reading, and writing - and to provide the students with many opportunities to use the language in a variety of contexts. The students will continue to study advanced grammatical structures, expand and enhance their Spanish vocabulary, develop good listening skills, and practice speaking techniques. The class is encouraged to speak in Spanish as much as possible, utilizing the skills that they have learned. The advanced nature of this course requires students to participate in class and take an active role in their own learning.

Advanced Spanish IV (A Weighted Course) *Credits: 1.0*

Aligned with the ISBE Course Catalog Spanish IV (24055A000)
Prerequisites: A grade of C or better in Spanish I, II & III

Spanish IV emphasizes reading comprehension, the study of Hispanic literature, history, and culture, further development of oral skills and composition. Students will review and deepen their understanding of structures that they have previously studied. They will continue to develop their ability to utilize advanced grammatical structures and will continue to broaden their Spanish vocabulary. This advanced course will include enrichment of critical-thinking skills, development of skills in media analysis and in conducting examinations of historical information, and completion of individual and group projects. The class is encouraged to speak in Spanish as much as possible, utilizing the skills that they have learned. This class is structured to prepare students for successful completion of college-placement exams and/or to prepare students to be successful in the university-level study of the Spanish language.

Industrial Technology

Prerequisites	**Continuing Education**
Introductory Drafting	
Woods Production and Technology A	Woods Production and Technology B
Metals	Metals II
Intro to Industrial Tech	Carpentry I & II
Beginning Construction A	Beginning Construction B

Introduction to Industrial Technology **Credits*:* 0.5**

Aligned with the ISBE Course Catalog Industrial Arts (21052A002)
Prerequisites: None (Introductory Course) Open to grades 9-12.

This course will expose students to the tools and machines that they may encounter in manufacturing-related occupations and enable them to develop the skills they need to use these tools in various applications. Course topics include drawing and planning, electricity, graphic arts, woodwork, robotics, metalwork, and power technology. General safety and career exploration within the field of Industrial Technology will also be explored.

Introductory Drafting **Credits: 0.5**

Aligned with the ISBE Course Catalog Beginning Drafting (21102A002)

Beginning Drafting is an introductory level drafting course. During this course students will learn the basic fundamentals of drafting and/or computer aided drafting (CAD). The instruction will include the care and use of drafting equipment, freehand sketching, orthographic projection, lettering techniques, dimensioning standards, pictorial drawings, drawing reproduction, and an introduction to CAD.

Beginning Construction A **Credits*:* 0.5**

Aligned with the ISBE Course Catalog Beginning Construction (17001A001)
Prerequisites: None. Introductory course open to grades 9-12.

This course is the first of two carpentry classes that prepare students to perform basic rough carpentry techniques. Topics include foundation preparation, wall layout/framing, and exterior finish. Knowledge and skill are developed in the areas of construction materials, print reading, design, and safe operation of power tools.

Beginning Construction B **Credits*:* 0.5**

Aligned with the ISBE Course Catalog Construction Trades I (17002A001)
Prerequisites: None. Introductory course open to grades 9-12.

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

Wood Production Technology A **Credits*:* 0.5**

Aligned with the ISBE Course Catalog Cabinetmaking and Millwork I (17007A001)

Prerequisites: None. Introductory course open to grades 9-12.

This course is designed to introduce the student to wood production technology currently used by the industry. The student will learn wood production through the developments of hand tools, machinery, industrial production procedures, lab safety, and more. The students will complete small projects. These exercises will introduce the students to various techniques essential in the mill working process. Students will select a final project from a variety of choices. All projects involve cabinet making/mill working experience, rough and finish constructions, understanding a plan set, pre-finishing, and finishing techniques. Units of study also include lab/industrial safety techniques, wood joinery concepts, adhesives, fasteners and clamping, rough and finish construction procedures, and pre-finishing and finishing techniques.

Wood Production Technology B — Credits: 0.5

Aligned with the ISBE Course Catalog Cabinetmaking and Millwork I (17007A002)
Prerequisite: Successful completion of Wood Production Technology I

This course is designed to continue the techniques and principles gained from the Wood Production Technology Course with a focus on advanced machining/joinery techniques, finishing, and hand operations.

Units of study include Safety & Overview of woodworking industry, Materials used in the woodworking trades and industry, Hand tools as used in the woodworking trades and industry; Portable and stationary power tools, Joinery & Finishing techniques, Project planning and development, Layout and measuring, Workshop and tool maintenance.

Carpentry I — Credits: 0.5

Aligned with the ISBE Course Catalog Carpentry I (17003A001)
Prerequisites: Successful completion Introduction to Industrial Technology

This course is designed to introduce students to the Carpentry/Carpenter occupation. Students are instructed in areas of safety, including hand tool, power tool, ladder, scaffolding and the use of safety harnesses. Students are introduced to the theoretical knowledge needed to lay out rafter, stairs, and basic framing techniques. Students demonstrate knowledge of blueprint reading, including foundations, concrete, floor plans, specification schedules, and electrical, plumbing and mechanical symbols. Students demonstrate entry-level skills in all facets of residential construction. Technology-related mathematics, reading, writing, vocabulary, blueprint reading, and science are integrated throughout the curriculum.

Carpentry II — Credits: 0.5

Aligned with the ISBE Course Catalog Carpentry II (17003A002)
Prerequisites: Successful completion of Carpentry I

This course provides learning experiences related to the erection, installation, maintenance and repair of building structures and related utilities. Students are instructed in areas of safety, including hand tool, power tool, ladder, scaffolding and the use of safety harnesses. Students demonstrate knowledge of exterior trim and finishes, energy conservation in residential construction, and design of stairs and rafter building. Students gain knowledge of planning and zoning regulations and building codes. Students are introduced to estimating both materials and construction costs, and demonstrate basic knowledge in applying drywall materials, stair-building skills, designing and erecting wall partitions, applying roofing materials, and installing common siding and interior finish. Technology-related mathematics, reading, writing, vocabulary, blueprint reading, and science are integrated throughout the curriculum.

Metalworking — Credits: 0.5

Aligned with the ISBE Course Catalog Precision Metal Production I (13052A001)
Prerequisites: None. Introductory course open to grades 9-12.Metalworking introduces students to the qualities and applications of various metals and the tools used to manipulate and form metal into products. Shop safety and correct use of metalworking tools and equipment is stressed.
Units of Study include

1. Planning, layout, and measurement skills
2. Cutting, bending, forging, casting, and/or welding metal
3. Completion of projects according to blueprints or other specifications
4. Polishing and finishing metals

Metalworking II — Credits: 0.5

Aligned with the ISBE Course Catalog Precision Metal Production II (13055A002)
Prerequisites: Successful completion of Metalworking I. Open to grades 9-12.

This course is designed to continue the techniques and principles gained from the Metalworking I class with a focus on more advanced techniques, more complicated projects, and independent work. Shop safety and correct use of metalworking tools and equipment will continue to be stressed.

Musical Arts

High School Band — Credits: 1.0

Aligned with the ISBE Course Catalog General Band (05101A000)
Prerequisites: Previous participation in middle or high school band program, completion of private or group instruction, or permission of instructor.

The concert band is designed to promote students' technique for playing brass and woodwind instruments and cover a variety of band literature styles, primarily for concert performances. Students will be exposed to a variety of music styles and genres throughout the year as they participate in marching band, pep band, and two concert band performances. In addition, students will have opportunities to participate in optional events such as ILMEA Music Festival (by audition), State Solo/Ensemble Contest, and community club organization programs.

Participation at each band performance is a mandatory, graded course requirement. This course can be repeated for credit each year of high school.

Percussion Class (7-12 grades) — Credits:1.0

Aligned with the ISBE Course Catalog Individual Technique-Instrumental Music (05109A000)
Prerequisites: Previous participation in middle or high school band program, completion of private or group instruction, or permission of instructor.

Percussion Class provides individuals with instruction in instrumentation techniques focused on the instruments of the snare drum, mallet percussion, timpani, drumset, and auxiliary percussion.

Participation at each band performance is a mandatory, graded course requirement. This course can be repeated for credit each year of high school.

Chorus/Vocal Music — Credits: 1.0

Aligned with the ISBE Course Catalog General Chorus (05110A000)
Prerequisites: Participation in a previous choral program is recommended but not required.

Chorus provides the opportunity to sing a variety of choral literature styles for men's and/or women's voices and are designed to develop vocal techniques and the ability to sing parts.

Participation in performances is a course requirement and a large portion of the course grade. In addition, students will have opportunities to participate in optional events such as ILMEA District Music Festival (by audition), State Solo/Ensemble Contest, and community organization programs.

Chorus students are strongly urged to participate in the biennial school musical in some capacity which takes place in the spring on odd years. This course can be repeated for credit each year of high school.

Music 101/Basics of Musicianship — Credits: 1.0

Aligned with ISBE Course Catalog - Music – Independent Study - Music 101/Basics of Musicianship (55147A000)

This class serves to allow students who either want to join a performance based class but do not have a background in music, seek to study an instrument during the school day that is not offered in band and choir classes, or engage in study on a secondary instrument. All students will be instructed on the fundamentals of being a musician, including: setting practice goals, reading chord sheets/music, and fundamentals of music theory. This class is largely individualized and determined by the student's goals. Students seeking to join this class will need to either provide their own instrument(excluding piano) or check with the music faculty to see if we have that instrument available. This course is offered to grade 9-12.

Music Composition/Production Credits: 1.0

Aligned with ISBE Course Catalog - Composition/Songwriting - Music Composition/Production (05119A000)
Prerequisites: Instrument Experience; May require an audition

Music Composition/Production is a class set to teach students about Songwriting and Recording. Over the course of the class students will study basics of music theory, lyric writing, song structure, and recording with Digital Audio Workstations(DAW's). This class does not focus on a particular genre of music, as students will be given tools to explore the genres of their choosing throughout. Students will spend Semester 1 playing instruments, analyzing songs, and writing music. Semester 2 will focus more on the recording process and creating an album that students will release as a class for their final project of the year. This course is offered to grade 9-12.

Jazz Band Credits: 1.0

Aligned with ISBE Course Catalog - Contemporary Band - Jazz Band (55105A000)
Prerequisites: Instrument Experience; May require an audition

Jazz Band is a course for students wishing to study the art and fundamentals of Jazz music (other modern and pop styles of music will be explored). Students will learn about jazz history, performance, improvisation, and more. This class will be open to 7th-12th graders, and students have to meet certain pre-requisite requirements depending on their instruments to be allowed in the class. Mondays will be for Jazz Drum-Set students, Tuesdays and Thursdays are for all students playing pitched instruments centered around Jazz Fundamentals and Improvisation, Wednesdays are for Jazz Pianists/Vibraphonists/Guitarists, and Fridays are Full Ensemble Rehearsals. This course is offered to grade 9-12.

Special Education

The following courses are offered through the Illini Central Special Education department. In order for students to qualify for these courses, they must have an Individualized Education Plan, which will dictate course selection and sequence. Courses offered are subject to change based on student needs and staff availability.

Basic English Skills **Credits: 1.0**
Aligned with the ISBE Course Catalog Assisted Reading (01067A000)

Life Skills Reading **Credits: 1.0**
Aligned with the ISBE Course Catalog Assisted Reading (01067A000)

Intermediate English Skills I/II **Credits: 1.0**
Aligned with the ISBE Course Catalog English/Language Arts IV: 12th Grade (01004A000)

Life Skills English **Credits: 1.0**
Aligned with the ISBE Course Catalog Language Arts Laboratory (01009A000)

Job Skills English **Credits: 1.0**
Aligned with the ISBE Course Catalog Language Arts Laboratory (01009A000)

Intermediate English IV **Credits: 1.0**
Aligned with the ISBE Course Catalog English/Language Arts IV: 12th Grade (01004A000)

Life Skills Math **Credits: 1.0**
Aligned with the ISBE Course Catalog General Applied Math (02151A000)

Intermediate Math 1/2 **Credits: 1.0**
Aligned with the ISBE Course Catalog General Applied Math (02151A000)

Intermediate Math 3/4 **Credits: 1.0**
Aligned with the ISBE Course Catalog Integrated Math –Multi-Year Equivalent: Secondary(02061A000)

Intermediate Integrated Science I (Physical) **Credits 1.0/Credits: .5 per semester**
Aligned with the ISBE Course Catalog Integrated Science (03201A000)

Life Skills Integrated Science I (Physical) **Credits 1.0/Credits: .5 per semester**
Aligned with the ISBE Course Catalog Integrated Science (03201A000)

Intermediate Integrated Science II (Life) **Credits 1.0/Credits: .5 per semester**
Aligned with the ISBE Course Catalog Integrated Science (03201A000))

Life Skills Integrated Science II (Life) **Credits 1.0/Credits: .5 per semester**
Aligned with the ISBE Course Catalog Integrated Science (03201A000)

Intermediate Integrated Science III **Credits 1.0/Credits: .5 per semester**
Aligned with the ISBE Course Catalog Integrated Science (03201A000)

Life Skills Integrated Science III **Credits 1.0/Credits: .5 per semester**
Aligned with the ISBE Course Catalog Integrated Science (03201A000)

Integrated US History **Credits 1.0/Credits: .5 per semester**
Aligned with the ISBE Course Catalog US History Comprehensive (04101A000)

Life Skills US History **Credits 1.0/Credits: .5 per semester**
Aligned with the ISBE Course Catalog US History Comprehensive (04101A000)

Integrated Social Studies **Credits 1.0/Credits: .5 per semester**
Aligned with the ISBE Course Catalog Social Studies (04305A000)

Life Skills Social Studies **Credits 1.0/Credits: .5 per semester**
Aligned with the ISBE Course Catalog Social Studies (04305A000)

Integrated American Government & Civics **Credits 0.5**
Aligned with the ISBE Course Catalog US Government Comprehensive (04151A000)

Life Skills American Government & Civics **Credits 1.0**
Aligned with the ISBE Course Catalog US Government Comprehensive (04151A000)

Integrated Resource Management **Credits 1.0**
Aligned with the ISBE Course Catalog –Family Resource Management and Planning (22210A001)

Life Skills Resource Management **Credits 1.0**
Aligned with the ISBE Course Catalog –Family Resource Management and Planning (22210A001)

Integrated Health **Credits 1.0**
Aligned with the ISBE Course Catalog – Health Education (08051A000)

Life Skills Health **Credits 1.0**
Aligned with the ISBE Course Catalog – Health Education (08051A000)

Integrated ITCA (Computers I) **Credits 1.0**
Aligned with the ISBE Course Catalog--Computer Concepts and Software Applications (10004A001)

Life Skills Computers I **Credits 1.0**
Aligned with the ISBE Course Catalog--Computer Concepts and Software Applications (10004A001)

Life Skills: Job Skills **Credits 1.0**
Aligned with the ISBE Course Catalog—Employability Skills (22152A000)

Career and Technical Education Courses offered through Lincolnland Technical Education Center (LTEC)

Prerequisites	Continuing Education
Advanced Metals I	Advanced Metals II (2024-2025 and alternating years)
Automotive Technology I	Automotive Technology II
Building Trades I	Building Trades II
CEO Entrepreneurship	
Computer Science	
Cosmetology I	Cosmetology II
Criminal Justice	
Culinary Arts I	Culinary Arts II
Nursing 101	
Workplace Experience	

These following career and technical education courses are offered in conjunction with LTEC, located at Lincoln Community High School in Lincoln, IL. They provide a way to introduce students to a variety of career fields and skills and are open to any Junior and Senior who is on track for timely graduation. Students choosing these courses ride a bus to and from Lincoln and attend classes there for the first three periods of each day. Students are required to arrange their own transportation to Illini Central each morning, as the bus to LTEC leaves at approximately 7:20am. ICHS and LTEC staff work closely together to monitor progress and course completion. Course selection and description are subject to change.

ADVANCED METALS I **Level 11-12**
Aligned with ISBE Course 13207A001
Prerequisite: None
Recommended: Metal Production, Basic Electricity & Energy, Basic Drafting & Communication
Aim of Course: To build skills and knowledge in the areas of welding and machining for the purpose of gaining employment in a related career.
Course Description: This course involves one semester of welding and one semester of machining. In welding, students will learn safe operation for electric arc welding, oxy-fuel welding, flame-cutting, metal shearing, band sawing, and stationary and portable griding equiptment. In machining, students will learn the safe operation of precision equiptment including the machine lathe, vertical and horizontal milling machines, surface grinding, tap and die, and metal finishing. *Students may be required to pay project fees in this course if they build their own projects.*

College Credit Opportunities: Students will have the opportunity to earn 6 hours of college credit through Heartland Community College.

ADVANCED METALS II (offered 2023-2024) **Level 12**
Aligned with ISBE Course 13207A002
Prerequisite: Successful Completion of Metal Manufacturing I
Recommended: Metal Production, Basic Electricity & Energy, Basic Drafting & Communication
Aim of Course: Adding skills to Metal Manufacturing I course.
Course Description: Students taking the Metal Trades II course will receive a more intensive investigation into the areas of welding and machining. In welding, the safe operation of heat gas welding, shielded arc welding, and oxy-fuel welding will be experienced. The student will produce fixtures and a major project involving all welding equipment located within the facility. Im machining, the student will experience blueprint reading and precision machining related to the industrial machining operation. All students will design and produce a project using all available equiptment located within the facility. *Students will be required to pay project fees in this course if they build their own projects.*

AUTOMOTIVE TECHNOLOGY I **Level 11-12**
Aligned with ISBE Course 20104A001
Prerequisite: None
Recommended Classes: Transportation Technology, Basic Drafting & Communications, Basic Electricity & Energy, and Metal Production.
Aim of Course: To introduce students to the extremely complex and ever-changing automotive repair industry and prepare them for further technical education or possible entry-level positions in the automotive and light truck repair fields. Students are taught that they must become lifelong learners and remain current with technology in order to pursue a career in the auto repair industry.
Course Description: Automotive Technology is a 2-year (4-semester) course with an annually revolving curriculum. Automotive Technology I & II students share the same classroom and share the same curriculum. For full benefit, the student must take the course for the full two years. Students will be taught how to disassemble, inspect, diagnose and repair or replace automotive systems, components, and assemblies. Students are taught how to study and understand the construction and operation of the different automotive systems, components, and assemblies so they can continue to update their skills. Developing both good learning and good working skills is emphasized. **Topics covered the first semester include** The Automotive Industry, Automotive Safety Practices, Automotive Tools and Equipment; Brake Systems including Hydraulic Systems, Drum Brakes, Disc Brakes, Power Brake Boosters, Parking Brakes, and Anti-lock Brakes, Electrical and Electronic Systems including Electrical System Operations, Batteries, Starting System, Charging System, Lighting Systems, and Accessory and Safety Systems. **Topics covered the second semester include** Engine Performance including Piston Engine Operation, Diagnosing Engine Problems, Sensors and Actuators, Air Induction Systems, Fuel Systems, Ignition Systems, Computer Diagnostics OBD-I & OBD II, Emission Control Systems; Suspension and Steering including Diagnosing & Repairing Steering Systems, Diagnosing and Repairing Suspension Systems, Wheel Alignment, Tires, and Wheels.

AUTOMOTIVE TECHNOLOGY II **Level 12**
Aligned with ISBE Course 20104A002
Prerequisite: Successful completion of Automotive Technology I.
Recommended Classes: Transportation Technology, Basic Drafting & Communications, Basic Electricity & Energy, and Metal Production.
Aim of Course: To introduce students to the extremely complex and ever-changing automotive repair industry and prepare them for further technical education or possible entry-level positions in the

automotive and light truck repair fields. Students are taught that they must become lifelong learners and remain current with technology in order to pursue a career in the auto repair industry.
Course Description: Automotive Technology is a 2-year (4-semester) course with an annually revolving curriculum. Automotive Technology I & II students share the same classroom and share the same curriculum. For full benefit, the student must take the course for the full two years. Students will be taught how to disassemble, inspect, diagnose and repair or replace automotive systems, components, and assemblies. Students are taught how to study and understand the construction and operation of the different automotive systems, components, and assemblies so they can continue to update their skills. Developing both good learning and good working skills is emphasized. **Topics covered the first semester include:** The Automotive Industry, Automotive Safety Practices, Automotive Tools and Equipment; Engine Repair including Piston Engine Operation, Cooling and Lubricating Systems, Diagnosing Engine Problems, Engine Removal, Disassembly, and Cleaning, Inspecting and Measuring Engine Components, Servicing Cylinder Heads, Servicing the Block Assembly, and Engine Assembly and Installation; Heating and Air Conditioning including Heating and Air Conditioning Operation, Diagnosing and Repairing Heating and Engine Cooling Systems, Diagnosing Air Conditioning Systems, Recovery and Recharging Air conditioning Systems, Repairing Air Conditioning Components, and Diagnosing and Repairing Control Systems. **Topics covered the second semester** include Automotive Transmissions and Transaxles, Torque Converters and Gear Trains, Hydraulic Principles, Hydraulic Control Systems, Apply Components, Electronic Controls, Rebuilding an Automatic Transmission or Transaxle; Manual Drive Train and Axles including Clutch Systems, Rear-Wheel-Drive Drivelines, and Four-Wheel-Drive Drivelines.

BUILDING TRADES I — Level 11-12

Aligned with ISBE Course 1702A001
Prerequisite: None
Recommended Classes: Woods, Electricity & Energy, Drafting
Aim of Course: To prepare students for entry into construction trades.
Course Description: Building Trades is designed to expose students to all phases of the small-home construction industry over a 1-year period. Building Trades I is the “rough-in” phase including framing, roofing, setting doors and windows, siding, and electrical wiring. Rough-in plumbing, both sewer and water lines, is included. A wood deck, small storage shed, and some landscaping will finish the first year. Students may be eligible for proficiency credit at Lincoln Land Community College.
College Credit Opportunities: Students will have the opportunity to earn 3 hours of college credit through Heartland Community College.

BUILDING TRADES II — Level 12

Aligned with ISBE Course 1702A002
Prerequisite: Successful completion of Building Trades I
Aim of Course: To prepare students for entry into the small-home construction trades.
Course Description: Building Trades II is the inside or “finish carpentry” of the house. This includes hanging and taping drywall, painting, staining, varnishing, and wallpapering. Interior doors are installed along with all the trim work. Cabinets and counter-tops are set. The electrical wiring is completed with switches, receptacles, and lights. All plumbing fixtures are installed with necessary trim work. Landscaping is completed, and the house readied for sale. The last unit of the year is planning for the next house by blueprint and architectural design.

CEO ENTREPRENEURSHIP — Level 11-12

Aligned with ISBE Course 12053A001
Prerequisite: Students 16 years of age and older
Recommended Classes: Accounting and Business Classes

Aim of the Course: To build an actual successful business and become an entrepreneur.
Course Description: An application is required and selection is made by CEO Committee; students must provide their own transportation. The local business community partners with area schools to create project-based experiences for students. Students visit area businesses, learn from guest speakers, participate in a class business, write business plans, and start and operate their own business. Business concepts learned through the experiential CEO class are critical; the 21st-century skills of problem-solving, teamwork, self-motivation, responsibility, higher-order thinking, communication, and inquiry are at the heart of student development throughout the course. Class will meet 90 minutes per day, 5 days a week.
Special Requirements: Students will need reliable transportation since the class is conducted off-site, and often at various locations

COMPUTER SCIENCE — Level 11-12

Aligned with ISBE Course 10152A001
Prerequisite: None
Aim of the Course: This is a class designed for all students to explore the different aspects of computer science in a fun, engaging, and creative environment. Students will learn computational thinking skills of programming, algorithm development, simulation, and data analysis.
Course Description: This course will explore the following areas: Human-Computer Interactions, Problem Solving, Web Design (Java Script) Programming Language (Object Oriented – Java, Python), Computing and Data Analysis, Networking (Cyber Security CompTIA Network+ Certification), Mobile Apps, Robotics and Drones, Data Mining

COSMETOLOGY I — Level 11-12

Aligned with ISBE Course 19101A001
Prerequisite: None.
Aim of Course: The Cosmetology program is a program designed to help students complete part of the 1,500 hours required to take the Illinois Cosmetology Exam and become licensed to practice Cosmetology in Illinois.
Course Description: This course is designed to provide students interested in a career in Cosmetology with the information and practical experiences needed to complete part of the 1,500 Practice Skills required to take the Illinois Cosmetology Exam. In Lab: Students will learn- Wet and dry hair styling, which includes: finger waving, roller, and pin-curl placements, air forming, iron curling, hair pressing, flat ironing, and all finishing techniques. Students will also receive training in various braiding techniques. Long hair styling, including all types of up-dos, is an integral part of the course.
Theory Units: Hair Design, Design Decision, Chemistry, Salon Business.
College Credit Opportunities: Students can earn up to 300 hours of credit toward the 1,500 hours required for the Illinois Cosmetology Exam.

COSMETOLOGY II — Level 12

Aligned with ISBE Course 19101A002
Prerequisite: Successful Completion of Cosmetology I.
Aim of Course: The Cosmetology program is a program designed to help students complete part of the 1,500 hours required to take the Illinois Cosmetology Exam and become licensed to practice Cosmetology in Illinois.
Course Description: Cosmetology II will continue to provide students with additional skills, knowledge & hours to help complete part of the 1,500 Practice Skills required to take the Illinois Cosmetology Exam. Students will learn - Textural reformation, which includes: permanent waving techniques, hair relaxing techniques, and multi-cultural chemical techniques.
Practice Skills Lab: Students will also learn new texturizing techniques including thermal reconditioning

and keratin blow-out treatments.
Theory Units: Chemical Texturizing, Salon Ecology, Electricity, Trichology
College Credit Opportunities: Students can earn an additional 300 hours of credit toward the 1,500 hours required for the Illinois Cosmetology Exam. With a combination of Cosmetology I and II, students could earn up to 600 hours toward their Illinois Cosmetology License.

CRIMINAL JUSTICE **Level 11-12**
Aligned to ISBE Course 15054A001
Prerequisite: None
Aim of Course: To understand components of criminal justice and our nation's legal system with an emphasis placed on career opportunities and career preparation in law enforcement and other aspects of the American Criminal Justice System.
Course Description: This course introduces students to aspects of law enforcement and the legal system. Students will be required to participate in physical activities and techniques to learn skills that are basic to all law enforcement officers. Specific course topics will include law enforcement, criminal investigations, evidence analysis (with a basic understanding of forensic science), witness and suspect interviewing, report reading and writing, as well as a study of how the legal system has evolved over time.

CULINARY ARTS I **Level 11-12**
Aligned with ISBE Course 16054A001
Prerequisite: None
Recommended: Food & Nutrition I and Food & Nutrition II
Aim of Course: To prepare students for employment in the rapidly growing food service industry and to continue their education in the culinary field.
Course Description: This course is designed to provide students interested in a career in food service with the information and practical experiences needed for the development of food service job-related competencies. The students receive laboratory experiences using commercial food service equipment, preparing food in quantity, and serving food. The course includes instruction on sanitation and safety in the food and beverage industry. Students will receive instruction through the ANSI Food Handler Course and the opportunity to obtain the 2-year food handler certification.

CULINARY ARTS II **Level 12**
Aligned with ISBE Course 16054A002
Prerequisite: Completion of Culinary Arts I
Aim of Course: To prepare students for employment in the rapidly growing foodservice industry.
Course Description: Coursework covers a broad spectrum: the preparation of basic and specialized foods, basic dining room service, menu planning and nutrition, catering and special function planning, sanitation, purchasing, and inventory. More emphasis is placed on management skills, human relations, and supervision. Training experiences involve equipment and facilities that simulate those found in business and industry.

NURSING 101 **Level 11-12**
Aligned with ISBE Course: 14051A001
Prerequisite: None.
Recommended: Human Anatomy & Physiology
Aim of Course: To complete the necessary 120 hours of instruction and lab, prepare the student to pass the state Certified Nurses' Aide exam and become CNA certified. This is a beginning-level certification for students interested in becoming health care professionals.
Course Description*:* This course includes classroom, laboratory, and clinical experiences. Basic

nursing assistant skills are presented and performed in nursing homes and hospital healthcare professions are also provided for the students enrolled in this course. Students may receive articulation credit at Heartland Community College or Lincoln Land Community College. Students will be required to purchase the uniform and clinical supplies for this class.
College Credit Opportunities: Students will have the opportunity to earn 8 hours of college credit through Heartland Community College. Students who opt-in for this credit will be required to submit for and pass a criminal background check. The costs for the background check will be the student's responsibility.

WORKPLACE EXPERIENCE **Level 11-12**
Aligned with ISBE Course
Prerequisite: Approval by the home school and employer
Recommended: Student takes a CTE course in the area of interest
Aim of Course: To allow students the opportunity to gain experience in a particular field of study or trade while in high school.
Course Description: Students will locate and be approved for an internship or apprenticeship with an employer. Students will be required to spend at least 10 hours a week with this employer for each week within a semester. Students will be required to turn in assignments issued by the Instructor to access learning and gain experience. Students may be given flexibility in their high school schedule to work with their employer.