

# **2023-2024**

# **Illini Central**

# **High School Course Catalog**



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**Mason City, IL 62664**  
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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 2023-2024 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 8<sup>th</sup> 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 1<sup>st</sup> 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

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

\* 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, 9<sup>th</sup> 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, 10<sup>th</sup> 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 (11<sup>th</sup> 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 LLCC professor, 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 an application to, and approval directly from LLCC and results in the creation of a college transcript. The student (and family) is responsible for all tuition and fees associated with these courses.

**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.

**Transitional English****Credits: 1.0***Aligned with the ISBE Course Catalog – Transitional English (01004A001)*

Prerequisite: Satisfactory completion of English III

Transitional English builds on students' experiential and academic knowledge to develop skills in reading, critical thinking and analysis, and writing that will enhance their success in college-level courses across majors and career pathways while aligning with the Illinois Learning Standards. This senior-level English course is taught in partnership with Illinois Community College. This course has the goal of providing students with the requisite skills for "day one" success in college-level courses. Students who earn a 70% or higher will be considered ready for college-level English courses and college-level reading expectations at ICC and other schools that acknowledge their portability. Students receiving a "D" in the course will receive high school credit to satisfy Illinois and school district learning standards, but students are not guaranteed placement in college-level English courses.

**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 genre-oriented courses, and written compositions are often required.

# Mathematics

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

**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 70% 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

# Science

	<u>Regular Track</u>	<u>College Bound</u>
<b>Freshman Year (Choose One)</b>	Biology Ag. Biology	Biology
<b>Sophomore (Choose One)</b>	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**
<b>Junior Year (Choose One)</b>	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.)**
<b>Senior Year (Choose One)</b>	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 Matter 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

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**

	<u><b>Regular Track</b></u>	<u><b>Advanced Track</b></u>
<b>Freshman Year</b>	World History (Prereq. for Contemporary Hist.)	World History (Prereq. for Contemporary Hist.)
<b>Sophomore Year</b>	Geography Psychology Current Events World History	Geography Psychology Current Events World History
<b>Junior Year</b>	**US History (1 credit)	**Adv. History (1 credit)***
<b>Senior Year</b>	**Government (.5 credit) Modern US History (Elective)	**Government (.5 credit) Modern US History

**\* 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. Constitutions - includes the Declaration of Independence, American Constitution, Illinois Constitution, as required by Article 27 of IL School Code
4. 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.

**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.

# **Physical Education & Health**

Health (Freshman Year)	PE Games	Fitness PE
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**\*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.

# **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.

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

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

## **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 science course)**

**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.

### **Integrated Agricultural Animal and Plant Science**

**Credits: 1.0**

*Aligned with the ISBE Course Catalog – Basic Agriculture Science (018003A001)*

*(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 (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 II (a continuation of Veterinary Science)**

**Credits: 0.5**

*Aligned with the ISBE Course Catalog – Veterinary Technology (18105A001)*

Prerequisites: Veterinary Science. Open to grades 11-12.

This course will build on fundamentals learned through Veterinary Science, and is also for anyone who is interested in animal ownership, veterinary care, and management. This course will deepen 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. We will continue to deepen our technical knowledge and practical skills in the field of veterinary science which will include professional ethics, decision-making, communication and problem-solving skills. Career exploration will focus on veterinarians, veterinary lab technicians, office lab assistants, small animal production, research lab assistant, and animal nutrition lab technician. Improving computer and workplace skills will be a focus. Students will also have the opportunity to compete in the *Vet Science Career Development Event*.

**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 (18203A000)*

Prerequisites: Must be currently enrolled or successfully taken Ag Orientation.. Open to grades 11-12.

We will develop skills to work with others in various environments, develop personal and professional goals, learn about different leadership styles and core values. Community service will also be a large component of this class.

**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 Technology****Credits: 1.0***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 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. Students will learn scientific skills to lead to a successful career in food science and become educated consumers. Conducting scientific research, sensory evaluation, nutrition, preservation and perishability, food processing, grading and inspection, and food safety, marketing, and preparation are some of the topics to be covered in this course. Students will be able to successfully participate in the *Food Science, Dairy Products, Poultry, and Meats Evaluation Career Development Events*.

**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 (18998A002)*

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****Credits: 1.0***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.

**Welding I****Credits: 0.5***Aligned with the ISBE Course Catalog – Agriculture Metal Fabrication (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--Agricultural Mechanics and Technology (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.

**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 Mechanics and Technology (18402A001)*

Prerequisite: Completion of Small Engines I: Grades 11-12 with at least 85% attendance the previous year. Offered the second semester only.

Students will rebuild an engine from pistons and rings for a complete overhaul of the engine. This class is to prepare the student that wants to continue in the mechanical field.

## **Business and Technology**

<u><b>Required Courses</b></u>	<u><b>Electives</b></u>
ITCA (Freshman Year)	Career Skills
Resource Management (Junior or Senior Year)	Accounting I (Prereq for Accounting II)
	Accounting II
	Image Editing
	Intro to Coding
	Web Design
	Multimedia & Communication “The Class”

### 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.

### Personal Organization and Development of Career Skills

**Credits: 0.5**

*Aligned with the ISBE Course Catalog – Career Exploration (22154A001)*

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)

**Credits: 1.0**

*Aligned with the ISBE Course Catalog Intro to Coding (10012A001)*

Prerequisites: Completion of ITCA

This course teaches the foundations of computer science and basic programming, with an emphasis on 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 (The Class)

**Credits: 1.0**

*Aligned with the ISBE Course (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               | OBS Software             | • Adobe Creative Cloud |
| • Broadcasting (YouTube) | • Video Editing (iMovie) | • Social Media         |
| • Equipment Maintenance  | • Website Management     |                        |

# Fine Arts

<b>Prerequisites for Step 2</b>	<b>Step 2: Prereqs. for Step 3</b>	<b>Step 3</b>
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

**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.

## **Mixed Media and 3D Design**

**Credits: 0.5**

*Aligned with the ISBE Course Catalog – Creative Art-Sculpture (55158A000)*

*Prerequisite: Successful completion of Intro to Art*

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**

**Credits: 1.0**

*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.

## **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**

Spanish I	Spanish II	Spanish III**	Spanish IV**
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**\* 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 I**

**Credits: 1.0**

*Aligned with the ISBE Course Catalog Spanish I (06101A000)*

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 the 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 Spanish course has a focus on preparing students for the rigors of post-high school academics. It may be advisable for students who have previously struggled in Language Arts to delay starting the study of Spanish until later in their high school career.

### **Spanish II**

**Credits: 1.0**

*Aligned with the ISBE Course Catalog Spanish II (06102A000)*

Prerequisites: Completion of Spanish I 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 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 (06103A000)*

Prerequisites: A grade of C or better in both Spanish I &amp; 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 (06104A000)*

Prerequisites: A grade of C or better in Spanish I, II &amp; III

Spanish IV emphasizes reading comprehension, the study of Hispanic literature, history, and culture, further development of oral skills and composition. Students 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**

<u><b>Prerequisites</b></u>	<u><b>Continuing Education</b></u>
Woods I	Woods II
Metals	Metals II
Intro to Industrial Tech	Carpentry II
Beginning Construction	

**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.

**Beginning Construction****Credits: 1.0***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.

## **Wood Production Technology I**

**Credits: 1.0**

*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 II**

**Credits: 1.0**

*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.

## **Basic Carpentry**

**Credits: 1.0**

*Aligned with the ISBE Course Catalog Construction Trades I (17002A001)*

Prerequisites: Successful completion of Woods Production I or Introduction to Industrial Technology

This year-long course prepares the student to perform basic rough carpentry techniques from preparing the foundation of a structure through constructing the ridge board.

Units of study include: Identify carpentry trade tools, fasteners, adhesives, caulks, glazing compounds, leveling devices, and all their uses and to estimate carpentry materials; To set forms, to correctly install and repair floor framing and subfloors, to correctly install and repair wall and ceiling framing; to install and repair roof framing and sheathing; Correctly install and door and window units and associated hardware, correctly install and repair roof underlayments, flashings, coverings; to correctly install and repair soffits, fascia, rakerboards, and cornerboards; to install and repair roof ventilation system correctly; to install and repair skylights and gutters and downspouts.

## **Carpentry II**

**Credits: 1.0**

*Aligned with the ISBE Course Catalog Construction Trades II (17002A002)*

Prerequisites: Successful completion of Basic Carpentry

This course provides learning experiences related to the erection, installation, maintenance, and repair of building structures and related utilities. Student technical skill experiences include instruction and activities in safety principles and practices, performing maintenance control functions, joining pipes, building water distribution lines and drains, installing and maintaining plumbing fixtures and systems, installing switch and outlet boxes, light fixtures, service entrances, roughing in and trimming out electrical devices and appliances, preparing foundations and footings, constructing residential chimneys and fireplaces, laying, jointing and pointing brick, and advanced building and construction methods and codes. All learning experiences are designed to allow the student to acquire job-entry skills and knowledge.

## **Metalworking**

**Credits: 0.5**

*Aligned with the ISBE Course Catalog Metalworking (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 Metalworking (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.

## **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: 12<sup>th</sup> 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: 12<sup>th</sup> 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)*

<b>Intermediate Integrated Science I (Physical)</b> <b>Credits: .5 per semester</b> <i>Aligned with the ISBE Course Catalog Integrated Science (03201A000)</i>	<b>Credits 1.0</b>
<b>Life Skills Integrated Science I (Physical)</b> <b>Credits: .5 per semester</b> <i>Aligned with the ISBE Course Catalog Integrated Science (03201A000)</i>	<b>Credits 1.0</b>
<b>Intermediate Integrated Science II (Life)</b> <b>Credits: .5 per semester</b> <i>Aligned with the ISBE Course Catalog Integrated Science (03201A000)</i>	<b>Credits 1.0</b>
<b>Life Skills Integrated Science II (Life)</b> <b>Credits: .5 per semester</b> <i>Aligned with the ISBE Course Catalog Integrated Science (03201A000)</i>	<b>Credits 1.0</b>
<b>Intermediate Integrated Science III</b> <b>Credits: .5 per semester</b> <i>Aligned with the ISBE Course Catalog Integrated Science (03201A000)</i>	<b>Credits 1.0</b>
<b>Life Skills Integrated Science III</b> <b>Credits: .5 per semester</b> <i>Aligned with the ISBE Course Catalog Integrated Science (03201A000)</i>	<b>Credits 1.0</b>
<b>Integrated US History</b> <b>Credits: .5 per semester</b> <i>Aligned with the ISBE Course Catalog US History Comprehensive (04101A000)</i>	<b>Credits 1.0</b>
<b>Life Skills US History</b> <b>Credits: .5 per semester</b> <i>Aligned with the ISBE Course Catalog US History Comprehensive (04101A000)</i>	<b>Credits 1.0</b>
<b>Integrated Social Studies</b> <b>Credits: .5 per semester</b> <i>Aligned with the ISBE Course Catalog Social Studies (04305A000)</i>	<b>Credits 1.0</b>
<b>Life Skills Social Studies</b> <b>Credits: .5 per semester</b> <i>Aligned with the ISBE Course Catalog Social Studies (04305A000)</i>	<b>Credits 1.0</b>
<b>Integrated American Government &amp; Civics</b> <b>Credits: .5 per semester</b> <i>Aligned with the ISBE Course Catalog US Government Comprehensive (04151A000)</i>	<b>Credits 1.0</b>
<b>Life Skills American Government &amp; Civics</b> <b>Credits: .5 per semester</b> <i>Aligned with the ISBE Course Catalog US Government Comprehensive (04151A000)</i>	<b>Credits 1.0</b>
<b>Integrated Resource Management</b> <b>Credits: .5 per semester</b> <i>Aligned with the ISBE Course Catalog –Family Resource Management and Planning (22210A001)</i>	<b>Credits 1.0</b>

**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)

<u>Prerequisites</u>	<u>Continuing Education</u>
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. ICBS 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 grinding equipment. In machining, students will learn the safe operation of precision equipment 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. In 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 equipment 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.