



# KEOKUK HIGH SCHOOL

## Course Catalog

2025-2026



**START HERE - SUCCEED ANYWHERE**

2885 Middle Road  
Keokuk, IA 52632  
(319) 524-2542

Dear Students, Parents, and Staff of Keokuk High School,

As we approach course selection for the upcoming academic year, we are committed to assisting students in making informed decisions that align with their long-term educational and career goals. This guide aims to support students in planning their high school journey strategically, ensuring each chosen class contributes meaningfully to their path to graduation and beyond.

At Keokuk High School, our priority is helping students select career pathways that will inspire and challenge them as they transition into adulthood. Whether students plan to be enrolled (attend college, enter a trade school), enlisted (join the military), or employed (head directly into the workforce), our goal is to make sure they leave Keokuk High School ready for what comes next. We encourage students to explore areas of interest rather than commit to specific careers, recognizing that the landscape of employment is evolving rapidly. Many of the jobs our students will pursue in the future have yet to be created, underscoring the importance of adaptability and a broad-based educational foundation.

To meet these challenges, Keokuk High School continually updates and enhances our programs to equip students with the skills and knowledge necessary for success in the 21st century. We emphasize both college and career readiness, providing students with the tools and resources to make informed decisions about their educational investments.

Looking forward, we aim to empower our students with a clear vision of their future aspirations and the steps required to achieve them beyond high school. Our goal is to cultivate well-rounded, resilient individuals who are prepared to thrive in an ever-changing society.

We appreciate your partnership in this journey of academic and personal growth.

If you're a Chief, you're a champion!

Nathan Harrison  
Principal  
Keokuk High School

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## **MISSION STATEMENT**

Keokuk Community School District provides an educational foundation where students are active participants in becoming adaptable and critical thinkers along with achieving the skills necessary (academic/vocational) for lifetime success.

### **WE BELIEVE:**

- Child development and education are the highest priorities
- in students mastering basic academic skills in the early grades confirmed by comprehensive assessment
- in identifying proficiencies in all levels and content areas based on high standards and confirmed by comprehensive assessment
- in a secure and nurturing environment that builds self-esteem
- in a learning environment appropriate for the changing needs of our students and work world
- in clean and safe facilities
- in schools which value and understand each student's uniqueness and enable all students to reach their full potential in treating all students with respect
- in the development of social responsibility and citizenship
- schools should create opportunities for exploration and preparation for a diversity of careers
- in providing effective professional staff leadership
- that staff are more effective when supported by family and community
- that involvement by and communication among the community, family, staff and learners is vital to education at all levels, and
- in utilizing technology to improve student achievement.

## **ACCREDITATION**

Keokuk High School is operated under the authority of the Keokuk Community School District and is accredited by the Department of Education of the State of Iowa.

## **GENERAL INFORMATION**

### **PREREQUISITE**

The availability of a course to a student is subject to the grade level restrictions and prerequisites placed on each course. It is not general practice to allow a student to take a course if a prerequisite has not been reached.

### **TRANSFER STUDENTS**

Students transferring to Keokuk High School will have their transcripts evaluated by the Guidance Center. Recommendations will then be made to the principal regarding the course of study and requirements needed for graduation.

## **EARLY GRADUATION**

Early graduation (completion of all high school requirements in less than 8 semesters) is not a practice that is promoted or discouraged. It is viewed as a possibility that may exist for those particular students who have special needs or abilities that may be met by such a course of action. Any student anticipating early graduation is required to discuss the intention and purpose for a request with the principal and guidance counselor. Students anticipating early graduation should file a Mid-Year/Early Graduation form with their counselor by the end of the first quarter of the student's last semester. Parental involvement is imperative. Any student graduating early (meeting all graduation requirements) will be awarded a diploma at the next regular commencement exercise. Upon request, the school will provide the student with a letter attesting to fulfillment of requirements as soon as they have been satisfied.

## **FEES AND FINANCIAL ASSISTANCE**

Textbook rental fees are set annually by the Board of Education. Special course fees may also be established. These fees will be collected in each course. Students whose families meet the income guidelines for free and reduced-price lunch, the Family Investment Program (FIP), Supplemental Security Income (SSI), transportation assistance under open enrollment, who are in foster care or whose families are experiencing temporary financial complications are eligible to have their student fees waived or partially waived.

## **GRADES/GRADE POINT AVERAGE- CLASS RANK**

Grades are an evaluation of the level of learning that a student has acquired in a course. They become part of a permanent record. Institutions of higher learning, potential employers, and the various military services are all interested in students' high school records. Students are evaluated according to scholastic performance at the end of each semester. Courses awarding letter grades and meeting for one period, five times a week for a semester will award one credit for all letter grades of "D" and above. A 4.0 scale (A-4.0, B-3.0, C-2.0, D-1.0, F-0.0) will be used to calculate grade point average (GPA) for all courses awarding credit. The calculated grade point average (GPA) will be used for the official permanent transcript, class rank, extra-curricular eligibility, honor rolls, all local academic awards, and membership in the National Honor Society.

## **HONOR ROLL/PRINCIPAL'S HONOR ROLL/PRINCIPAL'S AWARD**

To be eligible for the Honor Roll a student must have a 3.0 grade point average or above. Students must be enrolled full-time to be eligible for semester honor rolls. The grade point average (GPA.) is calculated by dividing the total grade points by the number of courses that have letter grades (A, B, C, D, F). Unweighted grades will be used for calculating the grade point average (GPA) for the honor roll.

To be eligible for the Principal's Honor Roll a student must have a 3.5 grade point average or above. Students must be enrolled full-time to be eligible for semester honor rolls. The grade point average (GPA.) is calculated by dividing the total grade points by the number of courses that have letter grades (A, B, C, D, F). Unweighted grades will be used for calculating the grade point average (GPA) for the honor roll.

To be eligible for the Principal's Award a student must have a 4.0 grade point average or above. Students must be enrolled full-time to be eligible for semester honor rolls. The grade point average (GPA.) is calculated by dividing the total grade points by the number of courses that have letter grades (A, B, C, D, F). Unweighted grades will be used for calculating the grade point average (GPA) for the honor roll.

## **LIFE AFTER HIGH SCHOOL: ENROLLED, ENLISTED, OR EMPLOYED**

At Keokuk High School, our goal is for every student to graduate with a clear plan for their future. We support all students in preparing to be enrolled in a postsecondary institution, enlisted in military service, or employed

in a skilled profession. This vision guides how we structure our courses, supports, and experiences throughout high school.

### **CAREER PATHWAYS AND EXPLORATION**

We strongly encourage students to explore career pathways that align with their strengths, interests, and long-term goals. One key tool we use is Xello, a career and college readiness platform that helps students identify interests, skills, and values to guide future planning. The insights students gain from Xello help inform their course selections, job shadowing opportunities, and participation in Work-Based Learning programs, which allows students to earn high school credit through real-world work experiences and internships. Work-Based Learning is a valuable step in preparing students to be employed or enrolled in a career-specific training program after high school. These experiences help students:

- Apply classroom knowledge to the workplace
- Build professional skills and workplace habits
- Explore industries and career options firsthand
- Make connections with local employers

### **IOWA'S CAREER PATHWAYS FRAMEWORK**

Iowa high schools, including Keokuk, offer a range of Career and Technical Education (CTE) programs designed to prepare students for high-demand fields. These programs are organized into six broad service areas:

## CTE Program Framework in Iowa



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Many of these CTE programs lead to Industry-Recognized Credentials (IRCs) - certifications that demonstrate technical skills valued by employers and postsecondary programs.

## CAREER EXPLORATION OPPORTUNITIES

Students at KHS have access to a wide variety of career exploration activities, including:

- Career Fairs
- Job Shadowing
- Internships
- Extracurricular Activities
- Guest Speakers and Industry Tours

These opportunities help students explore multiple options before committing to a postsecondary or career path. By providing a range of options and real-world experience, KHS helps students graduate ready to succeed - whether they choose to be enrolled, enlisted, or employed.

## GRADUATION REQUIREMENTS FOR KEOKUK HIGH SCHOOL

To ensure that all students have a sound education in fundamentals, the Board of Education requires that certain courses be taken for graduation. Other courses may be chosen to fit individual needs and plans. Students' programs of study should be the result of cooperative planning by the students with their parents, teachers, and guidance counselors.

Fifty-two credits will be required to graduate beginning with the Class of 2026. One credit is given for each subject satisfactorily pursued five days a week for a semester. Classes meeting less than one semester are credited proportionately. Credits in grades 9-12 are included in computing graduation requirements. The entire fifty-two (52) credits required for graduation must be taken at the high school. However, courses taken away from the high school may, under certain circumstances, meet specific requirements. Courses taken under the courses taken at an approved alternative school may also

count toward high school graduation. A student's high school schedule must include seven courses or combination of courses and credited activities which occupy the student each day for each semester in which they are enrolled in school.

Each student is also urged to participate in the extra-curricular activity program of the school. However, no student should be overloaded with classes and extracurricular activities to the detriment of his or her physical and mental health and/or scholarship.

## **KEOKUK HIGH SCHOOL COURSE POLICIES**

Written below are several policies relating to such things as the number of courses you must take and when you may add or drop courses.

### **MINIMUM COURSE LOAD**

All students are required to take a minimum of seven (7) classes each of the two semesters of the school year. Physical education may count as one of the seven courses.

### **CHANGING/DROPPING COURSES**

Students will be given multiple opportunities to change their schedule prior to the first day of both semesters. Once the semester begins, a student will be allowed 5 days to make changes without the need for written documentation. A student may drop one non-required academic class without grade penalty so long as the drop is agreed upon between the teacher, parent, and administrator within the first two weeks of class. A student that drops a class after the first two weeks of the term of the class will receive a letter grade of "F" so long as he/she presents a note from a parent requesting the change and clearly stating the parent understands that a grade of "F" will result.

### **CREDIT REQUIREMENTS TO GRADUATE**

<b>Credit Requirements</b>	<b>Credits</b>
English	8
Mathematics	6
Science	6
Social Science	6
Financial Literacy	1
Career and Technical	1
Fine Arts	1
Health	1
Character Leadership	1
Physical Education	4
Other Electives	17
<b>TOTAL GRADUATION REQUIREMENTS</b>	<b>52</b>

For Physical Education, Department of Education requirements shall be followed. A student excused by a doctor's statement or exempt by approved activity participation will receive a designation (EX) and will not earn credit. One (1) credit will be awarded for each semester of physical education/health passed with a grade of D or better. Physical education/health letter grades are calculated in a student's grade point average (GPA) and the credit is applied toward the 52 credits required for graduation.

## **COLLEGE-CREDIT OPPORTUNITIES WHILE IN HIGH SCHOOL**

Students are encouraged to explore opportunities that allow them to begin their college or vocational careers while still in high school. Our community is fortunate to have a community college located right here in Keokuk, and students can take advantage of the valuable programs that may be available to them. It is important to understand that when students enroll in college-level courses during high school, they are beginning their official college transcript. The grades earned in those courses are permanent and will follow them throughout their college career. These grades also impact eligibility for future programs, scholarships, and athletic participation in high school. Because of this, students must approach college classes with a high level of responsibility. Strong attendance, personal motivation, and time management are key factors in a student's success. Your guidance counselor will help you explore the options available and determine the best path based on your individual goals and readiness.

## **KEOKUK HIGH SCHOOL GRADING SCALE**

Letter Grade	Score
A+ through A-	100-90
B+ through B-	89-80
C+ through C-	79-70
D+ through D-	69-60
F	< 59

## **KEOKUK HIGH SCHOOL ONLINE POLICIES**

At Keokuk High School, we believe that being a Chief means that students are fully immersed in the school community—academically, socially, and emotionally. Students thrive when they actively participate in the classroom, extracurricular activities, school events, and the daily interactions that build strong relationships and a sense of belonging. While online learning can be beneficial for some, it does not align with our vision of students as active, contributing members of our school community. We are committed to offering a supportive environment where students can develop essential life skills, engage in hands-on learning opportunities, and prepare for success beyond high school. However, online learning will still be made available in extreme circumstances to students who meet one of the following conditions:

- **Adjudicated by the courts**, but requiring ongoing education.
- **A risk to themselves or others**, as determined by a case review and assessment.

## **COURSE DESCRIPTIONS**

### **ENGLISH AND LANGUAGE ARTS**

#### **Recommended Pathways**

Pathways	9th	10th	11th	12th
General	Lit Comp I	Lit Comp II	Lit Comp III	Electives
College	Lit Comp I	Lit Comp II	Lit Comp III	AP Literature or SCC Comp 105/106
Advanced	Lit Comp I	Honors 10 Lit Comp	AP Literature	SCC Comp 105/106

#### **Literature Composition I**

2 Credits

Full Year

GRADE 9

Prerequisites: None

This course emphasizes the core skills of reading and writing. All reading, writing, speaking and listening skills will be focused on the Iowa Core Language Arts Standards. In particular, a more intensive focus will be determined by the incoming students' Iowa test results. A research paper is

required. Students will study different types of literature including drama, short story, novel, and poetry. Writing skills studied will include informal and formal formats.

### **Literature Composition II**

2 Credits

Full Year

GRADE 10

Prerequisite: Literature Composition I

This course is a skills-based course to help students further develop proficiencies in the areas of reading, literary analysis, writing, grammar and usage, oral communication, and research. Students will be asked to do close readings of historical texts, informational texts, literacy texts, and argumentative texts. Students will hone in on their collaboration skills to further enhance their understanding of discussion techniques and etiquette.

### **Honors 10 Literature Composition**

2 Credits

Full Year

GRADES 10

Prerequisites: Instructor's Approval

This advanced course is designed for advanced sophomores and follows the Literature and Composition III curriculum. Students will deepen their reading, writing, speaking, and listening skills through a variety of challenging texts, primarily drawn from American literature. Emphasis is placed on critical thinking, literary analysis, and effective communication. Writing is a central focus throughout the year, including the development of a formal research paper. All instruction aligns with the Iowa Core Language Arts Standards to ensure rigorous academic growth and college readiness.

### **Literature Composition III**

2 Credits

Full Year

GRADE 11

Prerequisites: Literature Composition I & II

This course provides students the opportunity to improve their reading, writing, listening and speaking skills. A variety of selections from American literature provides numerous opportunities for critical thinking. There is a concentration on writing and related skills throughout the year. A research paper is required. All reading, writing, speaking and listening skills will be focused on the Iowa Core Language Arts Standards.

### **AP Literature and Composition**

2 Credits

Full Year

GRADE 11-12

Prerequisites: Honors 10 or Literature Composition III

AP Literature is an advanced course designed for high school upperclassmen who are passionate about reading and analyzing literature. This rigorous course offers an in-depth study of classic and contemporary works from various genres, including poetry, drama, fiction, and non-fiction. Students will engage in critical reading and literary analysis, developing their skills in interpretation, discussion, and

written expression. The course emphasizes understanding literary themes, styles, and historical contexts, as well as preparing students for the AP Literature and Composition exam. Through analytical essays, discussions, and projects, students will enhance their appreciation and understanding of literature, preparing them for college-level coursework.

### **SCC - ENG 105 - Composition I**

1 semester

3 SCC Credit Hours and 1 KHS Credit

Grade 12

Prerequisite: Lit Comp I, II, and II or Honors 10 and AP Literature

A study of the principles of writing. Emphasis on rhetoric, mechanics and development of expository patterns: narration, description illustration, comparison/contrast, classification, process and cause/effect. Required for AA and AS Degrees. Prerequisite: Meet minimum test score requirements

### **SCC - ENG 106- Composition II**

1 semester

3 SCC Credit Hours and 1 KHS Credit

Grade 12

Prerequisite: ENG 105

A continuation of study of the principles of writing begun in ENG-105. Emphasis is placed on persuasive writing, critical analysis and the MLA research paper. Time will also be spent exploring print and electronic research sources and learning effective research strategies.

### **Graphic Literacy**

2 Credits

Full Year

GRADE 11-12

Prerequisites: Honors 10 or Literature Composition III

This Graphic Literacy course will explore the intersection of visual elements and storytelling techniques. Students will engage with various media to understand how colors, shapes, and sounds contribute to the narrative experience.

### **High School Speech**

1 Credit

1 Semester

GRADE 10-12

Prerequisites: None

High School Speech is designed to develop students' public speaking and communication skills. This course covers the fundamentals of effective speech-making, including speech preparation, organization, and delivery techniques. Students will learn to craft and present various types of speeches, such as informative, persuasive, and special occasion speeches. Emphasis will be placed on overcoming speech anxiety, using visual aids, and developing critical listening skills. Through practice and constructive feedback, students will gain confidence and proficiency in public speaking, essential for academic, personal, and professional success.

### **Drama**

1 Credit

1 Semester

GRADE 10-12

Prerequisites: None

Drama is an engaging course that introduces students to the fundamentals of theater arts. This course covers acting techniques, script analysis, stagecraft, and the history of theater. Students will participate in a variety of performance activities, including improvisation, monologues, and scene work, while also learning about set design, lighting, costumes, and makeup. Through hands-on experience and collaborative projects, students will develop their creativity, confidence, and teamwork skills. High School Drama provides a comprehensive understanding of the theatrical process and prepares students for participation in school productions and further study in the dramatic arts.

## **MATHEMATICS**

### **Recommended Pathways**

Pathways	9th	10th	11th	12th
Intervention	*Chief Math	Algebra I	Geometry	
General	Algebra I	Geometry	Algebra II	Math for the Trades
College	Algebra I	Geometry	Algebra II	Pre-Calculus
Advanced	Geometry	Algebra II	Pre-Calculus	Calculus

### **Chief Math**

2 Credits

Full Year

GRADES 9-12

Prerequisites: None

The topics in this course include: algebraic expressions; all operations with integers; coordinate plane with ordered pairs; solving 1, 2, & multi-step equations and inequalities; mean, median, and mode; linear relationships

## Algebra I

2 credits

Full Year

GRADES 9-12

Prerequisites: 8th grade Math or 9th grade Transition to Algebra

Algebra 1 is a first-year course in the study of algebraic expressions, equations, inequalities, functions, statistics and probability. The course is aligned to the common core standards and emphasizes the mathematical practice standards. Students will be challenged to develop 21st Century Skills such as critical thinking and creative problem solving.

## Geometry

2 Credits

Full Year

GRADES 9-12

Prerequisite: Proficiency in Algebra I

This course transitions from an informal approach of studying plane and solid figures to a more formal one using presentations of deductive reasoning and logic and a few proofs in the study of several postulates and theorems. Other topics include the concepts of congruence, similarity, parallelism, perpendicularity and trigonometry, which were introduced in Algebra, and angle measuring rules, coordinate geometry, and transformations. Other review concepts include basic measurement, perimeter, area, volume and inductive reasoning. This course is aligned to the Iowa Common Core Standards and students will be challenged to develop 21st century skills such as critical thinking and creative problem solving. Most post-secondary institutions require students to complete a Geometry course to gain the necessary foundational mathematical tools for complex reasoning and problem solving in science, math engineering, and business coursework along with many skilled trades and professions. Technology will be used for instruction, investigation, and solving problems.

## Algebra II

2 credits

Full Year

GRADES 10-12

Prerequisites: Algebra I & Geometry

Algebra II is designed to build on algebraic and geometric concepts. The course is aligned to the common core standards and emphasizes the mathematical practice standards. Students will be challenged to develop 21st century skills such as critical thinking and creative problem solving. Algebra II serves as a foundation for other mathematics, science, and business courses. Technology will be used for instruction, investigation, and solving problems.

## Foundations of Algebra II

2 Credits

Full Year

GRADES 10-12

Prerequisites: Foundations of Geometry & Algebra I

Foundations of Algebra II is designed for students that struggled conceptually with Algebra I and Geometry. The course is aligned to the common core standards and emphasizes the essential core standards. Students will be challenged to develop 21st century skills such as critical thinking and creative problem solving. This course serves as a foundation for other mathematics, science, and business courses. The same concepts will be instructed as the Algebra II course however in a more generalized approach.

### **Pre-Calculus**

2 credits

Full Year

GRADES 11-12

Prerequisite: Algebra II

This course encompasses an in-depth review of Algebra II concepts and additional topics in preparation for Calculus. Students will be challenged to develop 21st century skills such as critical thinking and creative problem solving. Technology will be used for instruction, investigation, and solving problems.

### **Calculus**

2 credits

Full year

Grades 11-12

Prerequisite: Pre-Calculus

An introduction to calculus with a focus on limits; derivatives; the differentiation of algebraic functions; the examination and uses of the maxima, minima, and convexity of functions; the definite integral; the fundamental theorem of integral calculus; and applications of integration.

### **Math for the Trades**

1 credit

1 Semester

Prerequisite: Geometry

This course is an alternative to Algebra II for Juniors and Seniors. It will focus on the math skills required to be successful in a variety of skilled trades such as electrical, carpentry, automotive, and more. The emphasis will be on solving the actual problems you would encounter in those fields. The course will make use of Algebra and Geometry skills that students have already acquired and students will develop new skills in trigonometry and other areas. The course will include hands-on applications such as calculating the current in an electric circuit that the student has constructed and then measuring the current to verify the predicted outcome.

### **Math Lab**

1 Elective Credit Per Semester

Grades 9-12

Math Lab is a support-based elective designed for students who need additional help building foundational math skills and confidence. Taught by a certified math teacher, this course provides targeted instruction aligned with each student's core math class, with opportunities for reteaching,

guided practice, and skill reinforcement. Students receive individualized support to address gaps in understanding, improve problem-solving abilities, and develop effective strategies for success in their regular math coursework. Enrollment in Math Lab is typically based on teacher recommendation or assessment data.

## **SCIENCE**

### **Environmental and Space Science**

2 Credits

Full Year

GRADE 9

Prerequisites: None

Environmental and Space Science is a required course that is aligned with the Iowa Core Science Standards. This course is taken primarily at the freshman level. Students will use explorative activities and research projects to investigate Earth's history and geologic systems. It is important to the validity of this course to use real-time data, maps and investigations. Topics of study include: space systems, the formation and history of the Earth, ongoing processes and systems on Earth, weather and climate change, and human sustainability and conservation.

### **Accelerated Science**

2 Credits

Full Year

GRADE 9

Prerequisites: Teacher Approval

This course is designed to provide a rigorous curriculum, and to accelerate students for greater freedom in their schedules as upperclassmen, in order to take more advanced math and science courses. This course is a blended module of Earth/Space Science and Biology. The course will be covering the same Iowa Core standards as the traditional Freshman/Sophomore science track at a quicker pace, but also providing a more in-depth understanding of both topics.

### **Biology**

2 Credits

Full Year

GRADE 10

Prerequisites: Environmental and Space Science

Biology is a required course that is aligned with the Iowa Core Science Standards. This course is taken primarily at the sophomore level. Students will use scientific processes to investigate phenomena of the Natural World and apply knowledge to solve problems while making educated and ethical decisions throughout their lifetime.

### **AP Biology**

2 Credits

Full Year

GRADES 10-12

Prerequisites: 1 year of Accelerated Science/Biology or TAG identification

This AP Biology course framework includes two essential components: science practices and course content. The course is organized around the four big ideas, eight units, and seven science practices as identified in the framework. Students are provided the opportunity to engage in investigative laboratory work integrated throughout the course. AP Biology will provide students with opportunities to connect their biological and scientific knowledge to major social issues to help them become scientifically literate citizens. This class may also qualify students to earn college credits after completing their AP Biology Exam at the end of the course.

### **Biotechnology, Microbiology/Genetics**

2 Credits

Full Year

GRADES 9-12

Prerequisites: C or above in Literature/Composition I, Instructor's Approval

Biotechnology is an advanced science course exploring how we feed, fuel, and heal the world through cutting-edge biological technologies. Students will gain hands-on lab experience and develop essential technical and research skills relevant to modern biotech careers. Major units include: Your Future (college and career exploration), Applications of Biotechnology, Research and Funding, and Bioethics. Students will engage in scientific reading, technical writing, research projects, and ethical debates. This course includes extensive lab work and field experiences, including an overnight trip to Iowa State University's Biotech Outreach Lab and potential visits to colleges and industry sites. The course prepares students for post-secondary study and highly skilled careers in agriculture, medicine, and industrial biotechnology. How do we feed, fuel, and heal our world? Biotechnology provides breakthrough products, technologies, and research to fight debilitating and rare diseases, reduce our environmental impact, feed the hungry, and have safer, cleaner, and more efficient industrial processes. This is an advanced science course designed to expose students to lab skills and careers associated with Biotechnology. The class will expose students to concepts and lab techniques associated with a biological laboratory setting. The class will include significant time in the lab, research/exploration activities, and technical writing. The group also takes an overnight trip to Iowa State to work in the Biotech outreach lab. The class is being broken down into two units: Microbiology and Biotechnology.

### **Biotechnology II, Research & Ethics in Science**

1 Credit

1 Semester

GRADES 10-12

Prerequisites: Biotechnology I, Microbiology/Genetics

Biotech is a global industry in a rapid growth phase. Biotech jobs are highly skilled and highly paid. The class will include college and career exploration, literature review, defending and debate, applications of biotechnology, bioethics, and the funding and research process. The class will be broken down into four units: your future, applications of biotechnology, research and funding, and bioethics. This group usually takes an overnight trip to Monsanto and visits 4- 5 colleges.

### **Anatomy and Physiology**

2 Credits

Full Year

GRADES 11-12

Prerequisites: Biology

This course will benefit students who will major in health, science or a related field. Basic structures (anatomy) and functions (Physiology) will be discussed for each system covered. Laboratory work will be part of the student's learning experience, including the "autopsy" of a small mammal to compare it with that of human anatomy.

### Chemistry

2 Credits

Full Year

GRADES 10-12

Prerequisites: Environmental and Space Science & Biology

College prep course designed to meet the needs of students planning to attend a 4-year college or university. Especially recommended for those planning to major in science, medicine or engineering.

Course covers a broad range of introductory chemistry concepts, chemical reactions, chemical bonding, acids, bases, & salts, gas laws, and solutions. Fair amount of math (Algebra) is required. There is also an emphasis on lab work and hands-on chemistry. Students will become familiar with lab equipment and techniques. Grades based on activities, labs, lab reports, quizzes and formal assessments.

### Physical Science

2 Credits

Full Year

GRADES 11-12

Prerequisites: Environmental and Space Science & Biology

Physical Science is an introduction to the basic ideas in physics and chemistry usually completed by juniors that choose not to take Chemistry and Physics and is aligned with the Iowa Core Standards and will include the Engineering and Design Standards. The content will be student centered, activity-oriented, and include laboratory demonstration and investigation.

### Physics

2 Credits

Full Year

GRADES 10-12

Prerequisites: Environmental and Space Science, Biology, & Chemistry

This college-prep course will be exciting to students interested in how things work. The course has many hands-on activities and labs. We will emphasize the mathematical problem-solving skills necessary to succeed in college and we will gain an appreciation of the history of our technological developments. Some of the many topics covered include mechanics, Thermodynamics, and electricity. A typical week includes lab experiments, quizzes, some reading and lively discussions. If you want to know how the universe works, this is the course for you!

### Physics for the Trades

1 Credit

1 Semester

GRADES 10-12

Prerequisites: Environmental and Space Science, Biology, & 2 semesters of courses in the Trades  
Physics for the Trades is a specialized course designed to introduce fundamental physics principles and their practical applications in various trade professions. This course emphasizes the practical

understanding of physics concepts relevant to fields such as construction, automotive technology, electrical trades, and mechanical trades. Topics include mechanics, thermodynamics, electricity, magnetism, and fluid dynamics, tailored to the needs of trades-based applications. Students will engage in hands-on experiments, simulations, and problem-solving activities to develop critical thinking skills and apply physics principles to real-world scenarios. Physics for the Trades equips students with the knowledge and skills necessary for success in trade professions that rely on a strong foundation in physics.

## **SOCIAL SCIENCE**

### **Career & Character Exploration**

1 Credit

1 Semester (fall)

GRADE 9

Prerequisites: None

This course is required to assist with 9th grade transition and establish good character for our students. Guidance counselors will work with the students in developing career and/or college goals. Students will gain knowledge of what it means to be a good leader and maintain 'grit' in the face of adversity. This course is an introduction to civic education and what it takes to be a part of a community. Social and skill development will also be a key focus of this class.

### **American History**

2 Credits

Full Year

GRADE 10

Prerequisites: None

American History is the study of the history of the United States from the period after Reconstruction through the present time. In this course, the student will study problems pertinent to the social, political, and economic life of people of the United States. These problems are studied and discussed in the light of their effect on our lives today and their possible effect on the future. Topics discussed include: Industrial Revolution, Immigration, World War I, The Great Depression, World War II, The Cold War, The Modern Era, and Global Interactions. The course is designed to meet the state requirements for U.S. History. It is required of all 10th grade students.

### **AP U.S. History**

2 Credit

Full Year

GRADES 10-12

Prerequisites: None

AP U.S. History course is designed to provide students with the analytic skills and factual knowledge necessary to critically assess the problems and materials within U.S. history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. The following themes are covered in United States History: American Diversity and Identity, Culture, Demographic Changes, Economic

Transformations, Environment, Globalization, Politics & Citizenship, Reform, Religion, Slavery & its Legacies, and War & Diplomacy. Students will learn to assess historical materials and the relevance to a given interpretive problem, reliability, and importance and to weigh the evidence and interpretations presented in historical scholarship. An AP U.S. History course develops the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format.

### [Contemporary U.S. History](#)

1 Credit

1 Semester (Second)

GRADES 9-12

Prerequisites: U.S History

Contemporary U.S. History is a semester-long course that examines major events and turning points in the U.S. from the late 20th century into the early 21st century. The course leads students toward a clearer understanding of the patterns, processes, and people that have shaped U.S. History. As students progress through each era of modern U.S. history, they will study the impact of dynamic leadership, the influence of social and political movements on societal change, and the importance of modern cultural and political developments. Recurring themes lead students to draw connections between the past and the present, between cultures, and between multiple cultures.

### [Iowa History](#)

1 Credit

1 Semester (Second)

GRADES 9-12

Prerequisites: None

This course is designed to understand the basic structures and processes of Iowa's history, implementing analytical tools, vocabularies, and concepts in which to interpret Iowa's natural environment, native people, migration, as well as the social, economic, and political changes experienced by Iowans. No previous knowledge of the subject is expected or required.

### [Modern World History](#)

1 Credit

1 Semester (spring)

GRADES 9-12

Prerequisites: None

World History involves the study of the beginnings of civilizations through the development of the East and West. Included are the Middle Ages, the emergence of Modern Europe, the Enlightenment, The Revolution, the Age of the Unification and Nationalism. This course will also cover Western Imperialism, World Wars I and II, the growth of science and technology, dictatorship and democracies, and the changing world since 1945.

### [U.S. Government and Politics](#)

1 Credit

1 Semester

GRADES 11-12

Prerequisites: None

U.S. Government and Politics provides an overview of American constitutional government, federalism, political beliefs and behaviors, political parties, and the government of the State of Iowa. It focuses considerable attention on how and why people behave politically to get what they want from individuals and institutions that have the ability to meet those desires. Attention will be given to providing knowledge and skills that will allow individuals to participate fully in democratic government including instruction in voting procedures. A project will be required each semester. Community service will be strongly encouraged. Each student will also study current events on a regular basis and apply knowledge gained in the U.S. Government and Politics to those current events.

### **World Geography**

2 Credits

Full Year

GRADES 11-12

Prerequisites: None

World Geography is designed to help students better understand the world in which they live. Emphasis will be placed on the fact that Americans are a part of a global society and that we are dependent on one another. This course looks at the world using a regional approach. The culture, history, topography, climate, natural resources, and economics of each region will be studied. Current events and the specific problems of each region will be included. Considerable map work will be required.

### **Sociology**

1 Credit

1 Semester (First)

GRADES 9-12

Prerequisites: None

This course introduces students to the academic field of sociology. Sociology is a broad discipline, which employs scientific methodology to study society. Students are exposed to introductory concepts, theories, and methods used in contemporary sociology. Upon successful completion of this course, students will have a basic understanding of the sociological perspective and the ways in which the discipline understands and explains human behavior at all levels of society. The course also provides students with skills that they can utilize to understand themselves and their world; the theories, concepts, and ideas covered in this class will help students recognize the connection between self and society, biography and history, as well as the individual and social structures.

### **World Cultures**

1 Credit

1 Semester

GRADES 9-12

Prerequisites: None

This course examines the nature of culture; how cultural identities are acquired, maintained, and transformed; and theories used to analyze cultures. You will explore world cultures, with an emphasis on the analysis of religious and spiritual beliefs, art forms, and philosophy. You will study the

contributions and influence of a range of cultural groups and will critically analyze issues facing ethnocultural groups within Canada and around the world. You will also develop and apply research skills and design and implement a social action initiative relating to cultural diversity.

### **Ancient Civilizations**

1 Credit

1 Semester

GRADES 9-12

Prerequisites: None

Ancient Civilizations is an engaging exploration of civilizations and cultures from antiquity to the Middle Ages. This course surveys the ancient world, focusing on key civilizations such as Mesopotamia, Egypt, Greece, and Rome. Students will examine the political, social, economic, and cultural achievements and contributions of these civilizations, as well as their interactions and exchanges. Through the study of primary sources, archaeological evidence, and historical narratives, students will gain insight into the origins of complex societies, the development of religious and philosophical ideas, and the evolution of political systems. Ancient History fosters critical thinking skills and an appreciation for the diversity and continuity of human experiences across time, preparing students to understand and interpret the foundations of modern civilizations.

### **Military History**

1 Credit

1 Semester

GRADES 9-12

Prerequisites: None

Military History is an intensive exploration of the pivotal battles, strategies, and geopolitical developments that have shaped civilizations throughout history. This course examines key military campaigns, innovations in warfare, and the impact of military conflicts on societies and cultures worldwide. Students will analyze the causes and consequences of major conflicts, from ancient civilizations to modern warfare, including World Wars I and II, the Cold War, and contemporary military strategies. Through the study of primary sources, maps, and historical accounts, students will gain a deeper understanding of the evolution of military tactics, technology, and the geopolitical landscape. Military History fosters critical thinking skills, historical perspective, and an appreciation for the complexities of global conflicts, preparing students to analyze and interpret historical events with depth and insight.

### **PSY 111 SCC General Psychology**

1 semester

3 SCC Credit Hours & 1 KHS Credit

GRADES 11-12

Prerequisites: None

A basic course in the understanding of behavior, designed to give the student a scientific background in the fundamental problems and techniques covered in the field of psychology.

### **PSY 241 SCC Abnormal Psychology**

1 semester

3 SCC Credit Hours & 1 KHS Credit

GRADES 11-12

Prerequisites: PSY-111

A survey of the history of mental illness including a study of normal and abnormal behavior as related to various cultures. Personality development, individual adjustment and description of the various clinical entities and their relevance to present day life will be covered. Character disorders and personality structures which cause maladjustment are reviewed. A review of the theories of personality is included.

## **CAREER AND TECHNICAL EDUCATION**

### **BUSINESS PATHWAY**

#### **Business in Action**

1 Semester

1 Credit

GRADES 9-12

Prerequisites: None

In this hands-on course, students will gain real-world experience by operating a fully functional coffee shop on campus. This class offers a unique opportunity to learn and apply essential business, leadership, and customer service skills in a dynamic, team-oriented environment. Students will be responsible for all aspects of running the coffee shop, including inventory management, marketing, financial planning, customer relations, and daily operations.

#### **Accounting I**

1 Semester

1 Credit

GRADES 10-12

Prerequisites: None

This course provides students the background and foundation to utilize basic business accounting procedures. Students will learn the basics of double entry bookkeeping as well as how to analyze and record financial transactions. Students will understand how day to day business transactions affect owner's equity and various business accounts. Students will understand the terms and activities associated with assets, liabilities, double entry accounting, how to journalize, posting of entries, usage of special journals, adjustments, and closing entries. Students will understand and be able to utilize the complete business accounting cycle.

#### **Accounting II**

1 Semester

1 Credit

GRADES 10-12

Prerequisites: Passing Accounting I with a C average.

This course is a continuation of 1st semester Accounting I. Students will continue to focus on the accounting cycle for a merchandise business, recording inventory, and processing business payroll.

Students will learn how to operate QuickBooks software to complete business transactions. QuickBooks is used by many businesses to record their day-to-day transactions, prepare inventory lists, payroll summaries, and purchase orders.

### **KHS Work Study**

1 Credit

1 Semester

GRADES 11-12

This class is for students to learn skills that will give them success on the job. This is a unique class that will include in-class and online instruction as well as job shadowing work experience. 21st Century Employability Skills as stated by the State of Iowa will be the focus and include, but are not limited to, effective communication, problem-solving, good listening skills, teamwork, cooperation, and human relations skills. Students will use a variety of computer programs in completing assignments. Grading will be based on their performance on the job and class assignments. This is a great class if you are ready to experience the “real world”. Students are admitted to this course with approval by the instructor.

### **Personal Finance**

1 Credit

1 Semester

GRADES 11-12

Prerequisite: None

This course is designed to empower students with knowledge and application of basic financial principles so that they can make sound financial decisions for life. A few of the key goals of the course are: Enhance students' financial literacy skills; Enable students to develop informed money-management strategies; Stimulate interest in financial management; Inspire students to achieve financial well-being; and Foster an understanding and appreciation of ethical money management.

### **Business Marketing**

1 Credit

1 Semester

GRADES 11-12

Prerequisites: None

Business Marketing introduces students to the foundational principles, vocabulary, and strategies used in the marketing world. Students will explore how businesses identify and target consumers through market segmentation, product design, promotion, and placement strategies. The course emphasizes real-world application, creativity, and critical thinking. Through hands-on projects such as redesigning products, developing marketing plans, creating store layouts using Mini Brands, and tailoring campaigns to specific age groups, students gain practical skills in marketing and business communication. This course aligns with the Iowa Core standards in Business, Finance, Marketing, and Management and supports career readiness in business-related fields.

### **Lee County CEO**

2 Credits

GRADES 11-12

Prerequisites: Application and selection process required

Dual Enrollment Credit Available through Southeastern Community College

The Lee County CEO Program offers juniors and seniors from Keokuk High School and surrounding schools a unique opportunity to develop real-world skills in entrepreneurship, leadership, and career development through immersive, hands-on experiences. Students work directly with business leaders, participate in mentorships, and ultimately launch their own business ventures as part of the course.

## **COMPUTER SCIENCE PATHWAY**

### [AI in Our World](#)

1 Credit

1 Semester

GRADES 9-12

Prerequisites: None

AI in Our World is an introductory course developed in partnership with MIT AI for K-12 designed to help students explore AI and its far-reaching societal impacts in our world. The course is designed around engaging activities and learning units that integrate foundational AI concepts and real-world applications with ethical design and responsible use, as students explore how these technologies can help solve problems and improve life for themselves and their communities. Across six units and three Block Projects, students will investigate the broad implications of AI technology such as targeted advertising, facial and voice recognition, self-driving cars, and neural networks. Through a combination of group activities, individual explorations, and end-of-module deep dive projects, students will build familiarity with AI technology and the current state of machine learning. Students will close the course with a look into the future of AI and discuss the implications of AI technology for our society and our world

### [Computer Science Principles](#)

1 Credit

1 Semester

GRADES 9-12

Prerequisites: None

This course includes content in the principles of Computer Science and introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. This course is rigorous, engaging, and approachable and explores many of the foundational ideas of computing so all students understand how these concepts are transforming the world we live in. This course also teaches students how to identify cybersecurity threats and protect against them. Detect intrusions and respond to attacks. Begin to examine your own digital footprint and better defend your own personal data. Learn how organizations protect themselves in today's world. Whether seeking a career in the emerging field of cybersecurity or learning to defend their own personal data or a company's data, students will establish an ethical code of conduct while learning to defend data in

### [Python Fundamentals](#)

1 Credit

1 Semester  
GRADES 9-12  
Prerequisites: None

CS Python Fundamentals is an introductory-level course for students brand new to programming and computer science. In this course, you will learn problem-solving strategies, software design, and the foundations of computer science. You'll do so using two key tools: the Project STEM programming environment and EarSketch, a software package that turns your code into music. Not only will this course prepare you for continuing your studies in computer science (for example, by taking AP Computer Science A and AP Computer Science Principles), but it will also teach you how to think like a scientist and solve real-world problems, skills that are important to every 21st-century citizen. There are no prerequisites for this course, although you should have basic familiarity with how to operate a computer and use applications. It's also recommended that you have familiarity with basic algebra principles before starting this course.

### [\*\*Creative Computer Science\*\*](#)

1 Credit  
1 Semester  
GRADES 9-12  
Prerequisites: None

Creative Computer Science is an introductory computer science course designed to support the transition from block-based to text-based programming in Python, thorough engaging learning units and projects that explore CS as a medium for creation including app design, LED art, music and more. Students also get a chance to explore innovative tools such as AppLab, the Micro:bit Python editor platform and the EarSketch music app, as a means for creative and social expression. The units are designed to build excitement about the skills that students will develop throughout CSE3 by connecting what students are learning to the real world. Students build, remix, and share apps, animations, LED art, and music, in a collaborative environment.

## **FAMILY AND CONSUMER SCIENCE PATHWAY**

### [\*\*Introduction to Family Consumer Science\*\*](#)

1 Credit  
1 Semester  
GRADES 9-12  
Prerequisite: None

Are you ready to build skills that will actually help you in real life? In this hands-on class, you'll explore the essentials of adulting — from cooking and nutrition to sewing and personal development. You'll also learn about child development, goal setting, basic business skills, and how to make smart choices with your time and money. Whether you're planning for college, a job, or living on your own someday, this course gives you the foundational life skills you'll need to feel confident and capable. If you want to be more independent, prepared, and ready for whatever comes next — this is the class for you! You'll also have the opportunity to participate in FCCLA (Family, Career and Community Leaders of America) club, where you can build leadership skills, explore careers, and even compete in fun events!

## Child Development I

1 Credit

1 Semester

GRADES 9-12

Prerequisite: None

Curious about how children grow, learn, and thrive? In this fun, hands-on class, you'll explore everything from prenatal development to infant care and creating a healthy environment for children. Learn about how kids grow physically, emotionally, and mentally — and why those early years matter so much. One of the highlights of this course is working with Real Care Babies, giving you a realistic experience of what it's like to care for an infant. Whether you're thinking about a future career with children or simply want to be a great parent someday, this class is for everyone! Come learn real-life skills that will stick with you for years to come. Through FCCLA, you can connect with others who share your interests, develop leadership skills, and compete in child development events.

## Child Development II

1 Credit

1 Semester

GRADES 9-12

Prerequisite: Child Development I

Ready to take your understanding of children to the next level? In Child Development 2, you'll dive deeper into the development of toddlers, preschoolers, and school-age children. Learn how children grow, think, and behave during these important years — and how to support them through engaging activities and positive environments. We'll explore different types of schools and learning settings, discover career opportunities in early childhood, and even spend time in real classrooms, interacting with young students and preparing fun, educational activities. Whether you want to be a teacher, caregiver, or just learn more about child development, this hands-on class offers skills and experiences that will benefit you for a lifetime. Students will also have the chance to participate in FCCLA, where you can explore education careers, lead projects, and showcase your skills in competitions.

## Culinary I

1 Credit

1 Semester

GRADES 9-12

Prerequisites: Intro to Family and Consumer Sciences

IRC - ServSafe Food Handler

Ready to take your kitchen skills to the next level? In Culinary 1, we'll build on what you learned in Intro to FCS with a deeper dive into the world of food and cooking. You'll master essential topics like food safety and sanitation, kitchen equipment, knife skills, and mise en place (kitchen prep and organization). We'll explore a variety of cooking methods, preparation terms, and learn to work with fruits, vegetables, herbs, starches, proteins, and dairy. You'll also learn how to cost out recipes and understand the economics of food. Students will earn their Food Handler Certification, a valuable credential for anyone considering work in food service or hospitality. This hands-on course is perfect for future chefs, foodies, or anyone who wants to feel more confident in the kitchen!

## Culinary II

1 Credit

1 Semester

GRADES 9-12

Prerequisite: Culinary I

IRC - ServSafe Food Handler

Take your culinary skills up a notch in Culinary II! This advanced course builds on what you learned in Culinary I and dives deeper into the art and science of cooking. You'll explore Advanced Food Safety, and tackle exciting units on salads, dressings, and dips, stocks, soups, and sauces, pizzas and sandwiches, advanced egg and dairy techniques, breakfast cookery, and plating and garnishing to elevate your presentation skills. You'll also continue learning how to cost out recipes, preparing you for real-world kitchen management.

Students will have the opportunity to earn their Food Handler Certification, an industry-recognized credential that's great for employment in food service. You'll also compete in fun, in-class cooking competitions to test your skills and creativity, and take part in FCCLA, where you can go beyond the classroom to lead, compete, and connect with others who share your passion for food.

## Sewing I & II

1 Credit

1 Semester

GRADES 9-12

Prerequisite: None

Want to create something with your own two hands? In this beginner-friendly class, you'll learn the basics of both hand sewing and machine sewing. From threading a needle to operating a sewing machine, you'll build practical skills through fun, hands-on projects. Along the way, you'll learn how to read patterns, measure and cut fabric, and stitch like a pro. Whether you're interested in fashion, crafts, or just want to fix your own clothes, this class is the perfect place to start developing a lifelong skill you can be used at home or in a future career.

# **INDUSTRIAL TECHNOLOGY PATHWAY**

## Introduction to Automotive

1 Credit

1 Semester

GRADES 9-12

Prerequisite: None

The Introduction to Automotive course is designed for students eager to gain foundational knowledge and skills in automotive maintenance and repair. This course emphasizes the essentials of automotive tools and basics, providing a solid groundwork for those pursuing further studies in automotive service. Course content typically includes an introduction to essential tools and their proper use, safety practices, and basic automotive maintenance tasks. Students will learn the fundamentals of tune-up procedures, oil changes, and lubrication techniques. Additionally, the course covers essential skills in

tire replacement, alignment, and balancing. In-depth exploration of basic automotive systems is a key component of this course, including an overview of brake, cooling, electrical, emission, fuel, ignition, steering, suspension, and transmission systems. Students will gain hands-on experience and practical knowledge to troubleshoot and perform preventative maintenance effectively.

The Introduction to Automotive course aims to build a strong foundation in automotive service, preparing students for more advanced coursework and practical applications in the field.

### **Automotive I**

1 Credit

1 Semester

GRADES 9-12

Prerequisite: Introduction to Automotive

Automotive 1 is an introductory course focusing on hands-on lab work, brake systems, and front-end maintenance. Students will engage in practical labs to develop essential skills in automotive repair and diagnostics. The course provides in-depth instruction on brake system components and repair techniques, as well as front-end alignment, steering, and suspension work. This foundational course is designed to equip students with the knowledge and skills needed for effective automotive maintenance and troubleshooting.

### **Automotive II**

1 Credit

1 Semester

GRADES 9-12

Prerequisite: Automotive I

Automotive II is an intermediate course designed to enhance students' skills in automotive electrical systems and diagnostic techniques. This course provides comprehensive training in understanding, troubleshooting, and repairing electrical components in automobiles. Students will learn to use advanced diagnostic tools and methods to identify and resolve electrical issues. Emphasizing practical application, Automotive II prepares students for more complex automotive challenges and advances their proficiency in automotive diagnostics. Auto III- Engine Diagnostic Mechanization, Front-end Alignments, and Advanced Diagnostics.

### **Automotive III**

1 Credit

1 Semester

GRADES 10-12

Prerequisite: Automotive II

Automotive III is an advanced course focusing on engine diagnostic mechanization, front-end alignments, and sophisticated diagnostic techniques. Students will delve into detailed engine diagnostics and mechanization processes, mastering the tools and methods used to identify and solve complex engine issues. The course also covers advanced front-end alignment procedures and cutting-edge diagnostic strategies. Designed for students seeking to refine their expertise, Automotive III provides the in-depth knowledge and hands-on experience necessary for tackling intricate automotive challenges.

## Introduction to Building Trades

1 Credit

1 Semester

GRADES 9-12

Prerequisite: None

This course covers self-evaluation, goal setting, employability skills, specific career information the craft trades, real-world-of-work-descriptions of workers on the job. Safety, basic hand and power tools, fasteners and adhesives, joints and wood types, shop math and measurement. Students will be given hands-on and classroom experiences. Projects may include frames, cutting boards.

## Building Trades I

1 Credit

1 Semester

GRADES 10-12

Prerequisite: Introduction to Building Trades

Reviews safety, tools, and materials information. Students will build upon the knowledge base from year one, adding print reading, wall construction, deck construction, and building small structures (kids playhouse) , picnic tables, and benches.

## Building Trades II

2 Credits

1 Semester

GRADES 10-12

Prerequisite: Introduction to Building Trades and Building Trades I

Students will build upon the knowledge base from year one, adding print reading, wall construction, deck construction, and building small structures (kids playhouse) picnic tables, and benches

## Building Trades III

2 Credits

1 Semester

GRADES 11-12

Prerequisites: Building Trades II

Building Trades III is an advanced course that further enhances students' skills in the construction trades. Building on the foundational knowledge and practical experience gained in the previous courses, students will engage in more complex and large-scale projects. This course focuses on advanced print reading, complex framing techniques, roof construction, advanced finish carpentry, and the construction of full-scale structures. Students will have the opportunity to work on real-world projects that may include sheds, gazebos, or larger custom-built structures. Emphasis will be placed on precision, advanced tool usage, and adherence to safety standards. This course prepares students for professional opportunities in the building trades, equipping them with the skills needed for employment or further specialized education.

## Welding I

1 Credit

1 Semester

GRADES 9-12

Prerequisites: None

This course will introduce students to the properties, uses, and applications of various metals. This welding course provides experience in various processes used to join and cut metals. Processes used in this class will include oxyacetylene welding, and cutting; shielded metal arc welding (ARC); and gas metal arc welding (MIG). An option with this class will be the building of a welding project once required welding objectives have been completed.

### **Welding/Metal Fabrication**

1 Credit

1 Semester

GRADES 10-12

Prerequisite: Welding 1

Welding and Metal Fabrication builds on foundational welding skills and introduces students to more advanced techniques and applications. This course covers an expanded range of welding processes, including oxyacetylene welding and cutting, shielded metal arc welding (ARC), and gas metal arc welding (MIG). Students will also be introduced to tungsten inert gas welding (TIG).

### **Welding and Fabrication Capstone**

1 Credit

1 Semester

GRADES 10-12

Block Class (2 periods)

Prerequisite: Welding I

This advanced semester-long course is designed for students who have completed foundational welding and fabrication courses and are ready for a capstone experience. Students will build upon their knowledge and skills in gas welding, electric arc welding, MIG and TIG welding, and machine shop operations. Emphasis will be placed on real-world applications, including the fabrication of a go-kart or mini bike frame and the creation of precision parts using machine tools. The course culminates in a presentation and potential entry into the Industrial Arts Competition held in May. This course meets Iowa Educational Standards for advanced Career and Technical Education (CTE) instruction.

### **Drafting (Blueprint Reading)**

1 Credit

1 Semester

GRADES 10-12

Prerequisite: none

Drafting (Blueprint Reading) introduces students to the technical language of blueprints and the essential skills required to interpret and create architectural and mechanical drawings. Students will develop an understanding of line types, dimensions, tolerances, symbols, and reading construction, mechanical, and electrical plans. The course emphasizes accuracy, visual literacy, and spatial reasoning and aligns with the Iowa Career and Technical Education Standards in applied math, communication, and technical reading. The course prepares students for success in trades, engineering, and manufacturing pathways.

## **HEALTH OCCUPATIONS PATHWAY**

## Introduction to Health Occupations

1 Credit

1 Semester

GRADES 9-12

Prerequisite: None

Health careers are currently the most rapidly expanding careers in our area and offer many opportunities. This course will help students decide whether the healthcare field is right for them and can also help students choose the right health career to meet their specific skills and interests. This course will provide a health care foundation with a focus on employability skills for all health-related careers. The course will also introduce students to a wide variety of health-related careers, such as nursing, dental care, respiratory care and animal care.

## First Aid

1 Credit

1 Semester

GRADES 10-12

Prerequisite: None

IRC - American Heart Association First Aid, CPR/AED

Students will learn basic first aid principles and be able to provide basic first aid as needed. Students will also learn how to perform basic life support (CPR) and how to use an AED when available.

Students will also learn basic infection control practices, legalities of providing care to a victim, and the importance of maintaining confidentiality and providing accurate care. Students who complete this course will be certified through the American Heart Association for basic life support, AED, and basic first aid. This card will be good for 2 years.

## **SCC/HSC - 114 Medical Terminology**

1 Semester

3 Hours of SCC & 1 KHS Credit

GRADES 11-12

Prerequisites: Recommended Intro to Health Occupations I & II, Biology, Anatomy and Physiology be taken prior to this course

This course introduces the student to the world of medical terminology by learning how to break words down and determine what each word part means. The students will learn the word parts of each body system and will learn how to build medical terms and also how to break them down to define the terms.

## **SCC/HSC - 401 Medical Law & Ethics/Human Relations for Health Care Provider**

1 Semester

2 Hours of SCC & 1 KHS Credit

GRADES 11-12

Prerequisite: Recommended Intro to Health Occupations, Biology, Anatomy and Physiology be taken prior to this course

This course is designed to expose the student to legal concepts of standard of care, scope of employment, criminal and civil acts, contract, negligence and ethical concepts in health care. This course also includes fundamental principles related to human relations. Basic psychological and developmental theorists, factors that influence behavior, professional attitudes and behavior, self-improvement and communication in the healthcare setting are emphasized.

## **SCC/HSC - 168 Nurse Aide**

1 semester

3.5 Hours of SCC & 1 KHS Credits

GRADES 11-12

Prerequisites: Medical Terminology/Instructor Approval

IRC - IA CNA

Emphasis of this course is on students gaining a basic level of knowledge and demonstrating skills to provide safe, effective resident care. This course meets the requirement of the Department of Inspection and Appeals for nursing assistants / direct caregivers working in long term care and skilled facilities. Upon completion, a student is eligible to take the written and skills performance competency tests to become a Certified Nursing Assistant in the State of Iowa. NOTE: This course will not cover BLS and Mandatory Reporter Requirements. Students must complete a successful background check prior to the first day of class and TB status prior to the third week of class. Students may be subject to drug screens if necessary.

### **SCC/MAP-101 Healthcare Assistant-Certificate**

1 Semester

3 Hours of SCC & 1 KHS credit

Grades 11-12

Prerequisites: Recommended Intro to Health Occupations, Biology, Anatomy and Physiology be taken prior to this course

The Health Care Assistant Program can begin your healthcare career in the medical office. You will be introduced to administrative and clinical based skills in the medical clinic setting. The program will incorporate competency-based learning outcomes. Students will learn to develop communication and interpersonal skills to interact with patients effectively, obtain knowledge on general office policies and procedures, confidentiality, and legal concepts. Rooming patients, obtaining medical history, height, weight and vital signs will also be taught. A certificate will be awarded when you complete the following courses: HSC-114 Medical Terminology MAP-401 Medical Law and Ethics MAP-431 Human Relations and MAP-101 Healthcare Assistant.

## **AGRICULTURE PATHWAY**

### **Introduction to Agriculture**

2 Credits

Full Year

GRADES 9-12

Prerequisites: None

The Introduction to Agriculture course serves as the introductory course within the Ag Program of Study. The course is structured to enable all students to experience an overview of the fields of agricultural science and natural resources so that students may continue through a sequence of courses through high school. The knowledge and skills students develop will be used in future courses within the Ag program. Things like electricity, mechanics, animals, plants, landscaping, and FFA will be done in a hands-on learning environment.

### **Agricultural Business**

1 Credits

1 Semester

GRADES 9-12

Prerequisites: Intro to AG

A course focusing on the farm business management side of agriculture. The course covers basic economic principles, general accounting principles, and business financials. This includes business budgeting, cash flow analysis, balance sheet, income statements, depreciation, and general business health analysis.

### [Agricultural Marketing](#)

1 Credit

1 Semester

GRADES 9-12

Prerequisites: Intro to AG

A course focused on agricultural markets. Basic concepts and economics principles related to markets for agricultural inputs and products. Overview of current marketing problems faced by farms and agribusinesses, farm and retail price behavior, structure of markets, and the role of agriculture in the general economy. Introduction to hedging, futures, and other risk management tools. This course will look into ways that farmers can look to maximize profit as well as eliminate risk when marketing their products.

### [Animal Science I&II](#)

2 Credits

Full Year

GRADES 10-12

Prerequisite: Intro to AG

IRC - Beef Quality Assurance

An introductory level Animal Science course with an emphasis on production animals (cattle, hogs, sheep, goats, chickens, etc.) The class will progress species by species learning terminology, parts, marketing, breeds, etc. Students will learn why animal behavior and how we can handle animals in low stress manners. As animal agriculture is such a hot topic, we also will look into some controversial topics within animal agriculture and have a discussion about what the issues are. We will learn how to care for animals, visit animal facilities and apply hands-on learning practices in animal agriculture. You will also earn your BQA, YQCA certification as an industry recognized credential!

### [Agronomy \(Plant Science\)](#)

1 Credits

Semester

GRADES 10-12

Prerequisites: Intro to AG

A course teaching students the form and function of plant systems. Students experience various plant science concepts through inquiry-based exercises filled with activities, projects, and problems utilizing laboratory and practical experiences. Student experiences will include the study of plant anatomy and physiology, classification, and the fundamentals of production and harvesting. Students will be allowed to compete in a Soils Judging competition, while also doing the Kirkwood Landscaping competition.

### [Landscape Design and Turf Management](#)

1 Credit

Grades 10-12

Prerequisites: Intro to Ag.

Turf and Landscape Management courses provide instruction that incorporates plant science, soil and growing media mixtures, plant identification and optimal environments, and landscape design. These courses emphasize applying such knowledge and skill to the design, establishment, and maintenance of lawns, parks, open space, golf courses and other sports facilities, and similar environments.

Students will operate equipment and other Machinery to fulfill the building of beautiful Structures.

## **FINE ARTS**

### **Drawing**

1 Credit

1 Semester (Beginner Level)

GRADES 9-12

Drawing at KHS is the introductory course in the Visual Art program and fulfills the district's fine arts requirement. This course provides an in-depth exploration of the fundamental concepts and techniques of visual art. Over the first four weeks, students will participate in an intensive Media Bootcamp to master graphite, charcoal, pen and ink, colored pencil, and alcohol marker techniques. Building on this foundation, students will delve into compositional strategies, landscape art, portraiture, perspective, and scale/proportion. Through hands-on projects and reflective practices, students will develop technical skills, creativity, and critical thinking. This course prepares students for advanced art courses while encouraging personal expression and artistic growth.

### **Painting and Printing**

1 Credit

1 Semester (Beginner Level)

GRADES 9-12

This course introduces students to the foundational techniques and concepts of painting and printmaking through an intensive 4-week bootcamp, followed by an advanced exploration of artistic themes and compositions. Students will work with various painting mediums, including watercolor, gouache, and acrylic, as well as lino block printmaking, to develop technical proficiency and creative expression. Following the bootcamp, students will apply their skills to advanced studies in compositional techniques, color theory, landscape, still life, and portraiture. Hands-on projects and a culminating mixed-media final project will encourage critical thinking and artistic growth, preparing students for more advanced art courses.

### **Ceramics**

1 Credit

1 Semester (Beginner Level)

GRADES 10-12

The High School Ceramics program offers students an immersive experience in the art and craft of working with clay. This hands-on course covers foundational and advanced ceramic techniques, including hand-building methods like pinch, coil, and slab construction, as well as an introduction to wheel-throwing. Students will explore surface treatments such as glazing, slip decoration, and

underglaze painting to add color and texture to their work. Throughout the course, students will learn about the properties of clay, the stages of ceramic drying and firing, and the processes involved in kiln operation.

### **Digital Photography**

1 Credit

1 Semester (Beginner Level)

GRADES 11-12

This course is designed to give the students basic preparation in various aspects of digital photography. Special emphasis will be placed on a visual arts approach to seeing the technical layout and functions of the digital camera and exploring the basic aspects of Adobe Photoshop to manipulate the photographic image. The goal is to raise students' appreciation and understanding of the photographic medium. The student will be responsible for a camera and other equipment used during the course. A photography notebook is required.

### **Digital Illustration (Design)**

1 Credit

1 Semester (Beginner Level)

GRADES 9-12

The High School Digital Illustration course introduces students to the exciting world of creating art through digital tools and software. This course covers essential illustration techniques using industry-standard software such as Adobe Illustrator and Photoshop, along with a variety of digital drawing apps. Students will explore topics including color theory, composition, shading, and perspective as they apply to digital media. They will learn to use digital tools like layers, brushes, vector paths, and masking to create polished, professional-quality illustrations.

### **Advanced Art**

2 Credits

Full Year (Advanced Level)

GRADES 11-12

Prerequisites: Drawing plus any other 3 Beginner level Art Classes

Must be a Junior or Senior and have teacher approval and have completed drawing plus three additional studio classes [Painting and Printing, Ceramics, Digital Illustration and Photography] Advanced Art students will continue to explore traditional art making methods, techniques and media. Students will be expected to create original art that responds to prompts based on specific themes (ex. Secret Environments and Social Change). Students will have complete autonomy to create what they want to create using the materials they wish to explore.

### **Wind Band**

2 credits

1 year

GRADES 9-12

Prerequisites: None

Wind Band is a co-curricular course that offers a broad, comprehensive instrumental music experience. Students in this course make up the Keokuk Band Program which includes the Concert Band, "The Sound of Keokuk" Marching Band, Pep Band, and Percussion Ensemble. Students will

concentrate on progressing individual instrument technique and mature their music literacy. The development of critical listening and rehearsal skills will be stressed. Students will develop a high level of teamwork, confidence, responsibility, and pride through preparation and performance. Students will be required to attend band events outside of the school day. These events may include concerts, festivals, pep band, parades, and rehearsals. Extra-curricular opportunities are offered in conjunction with Wind Band such as Honor Bands, Solo and Ensemble, and Jazz Band.

Materials Needed: Uniform Fee (Established each fall); Instrumental Rental Fee for school instruments

### **Percussion Ensemble**

1 Credit

2nd Semester

GRADES 9-12

Prerequisites: None

Percussion Ensemble is a co-curricular course for percussionists during the year. Students in this course are a part of the Keokuk Band Program which includes the Concert Band, "The Sound of Keokuk" Marching Band, Pep Band, and Percussion Ensemble. Students will learn and expand in the areas of rhythm, rudiments, technique, develop and master musical concepts on many different percussion instruments. Students will develop a high level of teamwork, confidence, responsibility, and pride through preparation and performance. Students will be required to attend band events outside of the school day. These events may include concerts, festivals, pep band, parades, and rehearsals. Extra-curricular opportunities are offered in conjunction with Wind Band such as Honor Bands, Solo and Ensemble, and Jazz Band. Students who have not been in Band before are welcome to sign up but must understand the expectations of the course and Band Program. Those who are not percussionists should sign up for Wind Band but may take Percussion Ensemble concurrently with Wind Band. Materials Needed: Instrumental Rental Fee for school instruments

### **High School Beginning Band**

2 credits

1 year

GRADES 9-12

Prerequisites: None

High School Beginning Band is an introductory course designed for students who are new to band and eager to learn to play a musical instrument. This course provides a supportive environment for students to explore the fundamentals of music theory, instrumental techniques, and ensemble playing. Students will receive instruction on their chosen instrument, covering basic music notation, rhythm, tone production, and music interpretation. Emphasis will be placed on building foundational skills through individual practice and group rehearsals. Throughout the course, students will have opportunities to perform in concerts and develop a lifelong appreciation for music. High School Beginning Band fosters teamwork, discipline, and artistic expression, preparing students for continued growth in instrumental music.

### **Treble Choir**

2 Credits

Full Year

GRADES 9-12 Sopranos / Altos

Prerequisites: None

The Treble Choir ensemble is composed of 9th–12th grade treble voice students enrolled in chorus. This ensemble provides foundational training in healthy singing techniques, sight-reading, and musical literacy, including terms, notation, symbols, and abbreviations. Students explore a variety of musical styles while developing skills in diction, tone, intonation, and ensemble performance.

Beyond vocal development, the Treble Choir emphasizes teamwork, collaboration, and an appreciation for diverse musical traditions. Students will develop a high level of teamwork, confidence, responsibility, and pride through preparation and performance. Participation in this ensemble helps students build confidence, strengthen their musical skills, and prepare for advanced choral opportunities.

The ensemble performs at several events throughout the year, including the Winter Concert, Pops Concert, Spring Concert, State Large Group Contest, and various community events and festivals. Students will be required to attend choir events outside of the school day.

### **Concert Choir/Purple Harmony**

Full Year

GRADES 9-12

Prerequisites: Audition

The Concert Choir/Purple Harmony ensembles consist of selected students in grades 9–12 who complete an audition process. Both ensembles focus on developing strong vocal technique, musicianship, and performance skills while fostering teamwork and a deep appreciation for a variety of musical styles. Concert Choir/Purple Harmony emphasizes advanced choral singing, sight-reading, diction, tone, intonation, and musical literacy. Show Choir combines choral singing with high-energy choreography, emphasizing vocal projection, harmonization, breath control, and stage presence. These ensembles compete and perform at show choir competitions, concerts, and community events.

Students in these ensembles will perform at multiple events throughout the year, including the Winter Concert, Pops Concert, Spring Concert, State Large Group Contest, and various community festivals and performances. Participation requires a high level of commitment, with rehearsals and performances extending beyond the school day. Students will build confidence, discipline, and collaborative skills while striving for excellence in vocal music.

### **Bass Choir**

2 Credits

Full Year

GRADES 9-12 Tenor / Bass

Prerequisites: None

The Bass Choir ensemble is composed of 9th–12th grade bass voice students enrolled in chorus. This ensemble provides foundational training in healthy singing techniques, sight-reading, and musical literacy, including terms, notation, symbols, and abbreviations. Students explore a variety of musical styles while developing skills in diction, tone, intonation, and ensemble performance.

Beyond vocal development, the Bass Choir emphasizes teamwork, collaboration, and an appreciation for diverse musical traditions. Students will develop a high level of teamwork, confidence, responsibility, and pride through preparation and performance. Participation in this ensemble helps students build confidence, strengthen their musical skills, and prepare for advanced choral opportunities.

The ensemble performs at several events throughout the year, including the Winter Concert, Pops Concert, Spring Concert, State Large Group Contest, and various community events and festivals. Students will be required to attend choir events outside of the school day.

## Music Theory I

1 Credit

1 Semester

GRADES 9-12

Prerequisites: None

Music Theory I is designed as a precursor to an AP Music Theory class or a college Music Theory I course. This course covers basic music reading skills including staves, clefs, notation, rhythm and note names up through roman numeral analysis, chord voicing, cadences, and music analysis. This class is highly recommended for anyone thinking of majoring in music in college.

## Video Media Arts I

1 Credit

Full Year

GRADES 10-12

Prerequisites: None

Video Media Arts is designed to introduce students to the world of filmmaking. This course covers basic video skills including story board creation, production of silent movies, lighting, production of short movies, advertisements, and sound. This class is highly recommended for anyone thinking of majoring in video media or acting.

# **MODERN WORLD LANGUAGES**

## Spanish I

2 Credits

Full Year

GRADES 9-12

Prerequisites: Proficient Score in Native Language.

Spanish I consists of a foundation in listening, speaking, reading, and writing. The course is an introduction to basic vocabulary and sentence structure of the Spanish language. It is designed to be challenging and requires daily practice. Topics covered include the concepts of masculine and feminine, singular and plural nouns, subject pronouns, and the present tense of regular and irregular verbs, subject/verb agreement, and adjective agreement. Cultural information of Spanish-speaking countries will be studied. In addition, internet resources immerse students in authentic language and culture. The course grade is based on tests and quizzes, as well as oral and written activities that focus on communication, grammar, vocabulary, pronunciation, and fluency.

## Spanish II

2 Credits

Full Year

GRADES 9-12

Prerequisite: Spanish I

In this course, students will increase their oral and written fluency in the language and continue their study of the cultures of Spanish-speaking countries. More advanced vocabulary and grammar are emphasized. Topics covered include irregular present tense, the immediate future, the present progressive, the preterit tense, verbs like gustar, negation, direct/indirect and reflexive objects, and a review of the present tense. In addition, internet resources immerse students in authentic language

and culture. The course grade is based on tests and quizzes, as well as oral and written activities that focus on communication, grammar, vocabulary, pronunciation, and fluency.

## **PHYSICAL EDUCATION AND HEALTH**

### **Sports and Fitness**

1 Credit

1 Semester

GRADES 9-12

Prerequisites: None

This course is designed to practice and develop skills that will prepare students to maintain fitness throughout their life. Students will assess their level of fitness and engage in activities to improve their fitness. Individual, partner, and team activities will be explored to develop skills to promote life-long participation in exercise.

Materials Needed: Tennis shoes, athletic shorts/pants, and t-shirt/sweatshirt are to be worn each day in order to participate. Tennis shoes worn to school can be worn in PE as long as they are clean, can be tied, and fit properly for physical activity. Shirts must have sleeves. Teacher judgment as to the appropriateness of clothes will be final. Students will be issued a locker and padlock and are encouraged to use these each day to secure their belongings. Students may wear their gym clothes or bring clothes to change into.

### **Personal Strength**

1 Credit

1 Semester

GRADES 10-12, 9 (if enrolled in a sport)

Prerequisites: Playing a sport

Students will participate daily in a strengthening and conditioning workout. The environment will be closely supervised and intense in nature with the goal being to develop each student to their physical peak. Working well with others and safely completing workouts is important.

Materials Needed: Tennis shoes, athletic shorts/pants, and t-shirt/sweatshirt are to be worn each day in order to participate. Tennis shoes worn to school can be worn in PE as long as they are clean, can be tied, and fit properly for physical activity. Shirts must have sleeves. Teacher judgment as to the appropriateness of clothes will be final. Students will be issued a locker and padlock and are encouraged to use these each day to secure their belongings. Students may wear their gym clothes or bring clothes to change into.

### **Health - Fitness and Nutrition**

1 Credit

1 Semester (only offered Fall semester)

GRADES 9-12

Prerequisites: None

Health is a semester-long course that will provide students with the knowledge needed to live healthy lives. Health is affected by a variety of positive and negative influences within society. Knowing how to identify and deal with these influences can help improve the health of our bodies allowing us to live

long, healthy lives. Students need to be present and participate in class activities and discussion in order to learn the content. They also need to do their part in the learning process.

### **Health and Human Physiology**

1 Credit

1 Semester (only offered spring semester)

GRADES 9-12

Prerequisites: None

Health is a semester-long course that will provide students with the knowledge needed to live healthy lives. Health is affected by a variety of positive and negative influences within society. Knowing how to identify and deal with these influences can help improve the health of our bodies allowing us to live long, healthy lives. Students need to be present and participate in class activities and discussion in order to learn the content. They also need to do their part in the learning process.

## **OTHER ELECTIVES**

### **iJag 9/10 AND 11/12**

2 Credits

Full Year

GRADES 9-12

Prerequisites: None

This is a career exploration and preparation program that provides a hands-on approach in exploring personal strengths and challenges as well as job attainment skills (cover letter, resume, job application, interviewing, etc.) and workplace “survival” skills (interpersonal relations, teamwork, etc.) through the use of project-based learning (PBL). Students will work to build strengths in leadership, relationships, academic areas, time management, positive decision-making, and communication. The individual work and team-building activities will also help students come to an understanding of personality, temperament, and the relationship between personal actions and potential consequences that can follow. Students will make connections to their career interests, abilities, and aptitudes through career assessment and by determining their education and career goals through development of an Individual Career Development Plan. There will be individual assignments, team-building activities/projects, academic remediation support, service-learning opportunities, guest speakers, field trips (businesses, colleges, & state-wide iJAG events in Des Moines), and career exploration through job shadowing and/or possible internships. All iJAG students will participate in the iJAG Career Association in various activities focused on Career, Leadership Development, Service Learning, and Civic Social Awareness.

### **Specialized Designed Instruction**

1 Credit

Full Year

GRADES 9-12

Prerequisites: students must have an Individualized Education Plan (IEP)

SDI is a pass/fail elective credit for students with IEPs to work towards their IEP goals and transition plans. This class offers an individualized classroom setting focusing on student abilities and future plans in the areas of living, learning, and working. SDI has bi-weekly progress monitoring of all IEP goals.

[Gooding](#)

[Sisk](#)

[McGhghy](#)

[Sapp](#)

[Vogel](#)

### **Youth Leadership Team**

1 Credit

1 Semester

GRADES 9-12

Prerequisites: None

Students enrolled in this class will be expected to demonstrate good behavior while representing our school out in the community. Students will be representing Keokuk High School by becoming an active participant in community based projects. They will also help other students in the school district by mentoring and being good role models. YLT students will organize events in the community and school district. The main purpose of this course is to become better leaders, create a diverse network of references, and better our school district and community. The Youth Leadership Team is designed to develop and enhance leadership skills among high school students at Keokuk High School. This course provides students with opportunities to practice leadership through project management, team collaboration, and community engagement. Students will learn effective communication, decision-making, and organizational skills while contributing positively to our school district and the Keokuk community.

### **Guided Study**

Guided Study is a non-credit support period designed to provide students with a structured and supervised environment for completing coursework, making up missed assignments, or engaging in credit recovery. This period allows students time during the school day to focus on academic tasks with access to teacher support when available. Guided Study is intended to help students stay on track with their academic progress, meet graduation requirements, and build effective work habits. No credit is awarded for this course.



## 4-Year College/University Career Pathway to Graduation

### Key Features:

- Emphasis on core academics: ELA, Math, Science, and Social Studies
- At least 2 years of a World Language
- At least 2 AP or dual credit courses
- Participation in extracurriculars, leadership, and service
- Strong writing and college/career planning experience

	9th Grade	10th Grade	11th Grade	12th Grade
ENGLISH	Literature Composition I	Literature Composition II OR Honors 10 Lit/Comp	Literature Composition III OR AP Literature	SCC Composition 105/106 OR AP Literature
MATH	Algebra I OR Geometry	Geometry OR Algebra II	Algebra II OR Pre-Calculus	Pre-Calculus OR Calculus
SCIENCE	Environmental & Space Science OR Accelerated Science	Biology OR AP Biology	Chemistry OR Physics	Anatomy and Physiology OR Physics
SOCIAL STUDIES	Career & Character Exploration/World History	American History OR AP US History	SCC General Psychology, Modern World History, OR Anicent Civilization	Economics US Government and Politics, Sociology
ADDITIONAL COURSES	<b>World Language:</b> Spanish I  <b>PE/Health:</b> Sports and Fitness  <b>Electives:</b> Digital Photography, Drawing, AI in Our World, OR other Fine Arts/CTE	<b>World Language:</b> Spanish II  <b>PE/Health:</b> Personal Strength  <b>Electives:</b> Accounting I, Intro to FCS, OR Computer Science Principles	<b>AP/Dual Credit:</b> SCC Composition 105 OR AP Literature  <b>PE/Health:</b> Health and Human Physiology  <b>Electives:</b> SCC dual credit course, Biotechnology, Personal Finance	<b>AP/Dual Credit:</b> Take an AP OR SCC dual credit course  <b>Electives:</b> Youth Leadership Team, Work Based Learning
GOALS	Build a strong academic base. Start extracurriculars. Track GPA early.	Demonstrate rigor. Meet world language minimums. Continue involvement.	Take first dual credit or AP class. Begin college visits & ACT/SAT.	Finalize college applications. Apply for scholarships.

**Foreign Language:** 2-4 years recommended depending on college selectivity

**Math:** Most colleges require Algebra I, Geometry, Algebra II, and an additional math

**Science:** Aim for 3-4 years with at least two lab sciences (Bio, Chem, Physics)

**Social Studies:** Minimum of 3 years (World History, U.S. History, Gov't/Econ)

**AP/Dual Credit:** Minimum of 2 before graduation for competitive applications

**Extracurriculars:** Fine arts, sports, leadership roles, clubs, community service

**College Visits:** Recommended in junior and senior years



## Military Enlistment Pathway to Graduation

The Military Enlistment Pathway prepares students for successful entry into the U.S. Armed Forces after graduation. It focuses on building academic skills to pass the ASVAB, improving physical fitness, and developing leadership, discipline, and teamwork. Students also gain an understanding of military structure, history, and career options. This pathway supports a smooth transition into basic training and a strong start to a military career.

	<b>9th Grade</b>	<b>10th Grade</b>	<b>11th Grade</b>	<b>12th Grade</b>
<b>ENGLISH</b>	Literature Composition I	Literature Composition II <i>OR</i> Honors 10 Lit/Comp	Literature Composition III <i>OR</i> AP Literature	SCC Composition 105/106 <i>OR</i> AP Literature
<b>MATH</b>	Algebra I <i>OR</i> Geometry	Geometry <i>OR</i> Algebra II	Algebra II <i>OR</i> Pre-Calculus	Pre-Calculus <i>OR</i> Calculus
<b>SCIENCE</b>	Environmental & Space Science <i>OR</i> Accelerated Science	Biology <i>OR</i> AP Biology	Chemistry <i>OR</i> Physics	Anatomy and Physiology <i>OR</i> Physics
<b>SOCIAL STUDIES</b>	Career & Character Exploration/World History	American History <i>OR</i> AP US History	SCC General Psychology, Modern World History, <i>OR</i> Ancient Civilization	US Government and Politics, Military History
<b>ADDITIONAL COURSES</b>	<b>World Language:</b> Spanish I  <b>PE/Health:</b> Sports and Fitness  <b>Electives:</b> Digital Photography, ijag AI in Our World, <i>OR</i> other Fine Arts/CTE	<b>World Language:</b> Spanish II  <b>PE/Health:</b> Personal Strength  <b>Electives:</b> Accounting I, ijag, Intro to FCS, <i>OR</i> Computer Science Principles	<b>PE/Health:</b> Health and Human Physiology  <b>Electives:</b> ijag, Youth Leadership Team, Personal Finance	<b>Electives:</b> Youth Leadership Team, ijag, Work-Based Learning
<b>GOALS</b>	Get involved in extracurricular activities that promote teamwork and discipline.	Develop good study habits and a strong work ethic. Continue involvement.	Take the official ASVAB and use results to guide career planning.	Graduate on time and with the qualifications needed to enter your chosen branch.

The Military Enlistment Pathway guides students through academic, physical, and career preparation for joining the U.S. Armed Forces. In 9th grade, students build a strong academic foundation and explore military careers. By 10th grade, they take practice ASVAB tests, focus on fitness, and learn about military structure. In 11th grade, students take the official ASVAB, connect with recruiters, and pursue leadership opportunities. By 12th grade, they finalize enlistment plans, complete required steps, and ensure they are physically and academically ready for basic training.



## Automotive Technology Graduation Pathway

### Recommended Four-Year Graduation Plan

This pathway prepares students for entry-level automotive careers and further training in the automotive service industry. Students receive hands-on instruction in vehicle systems, diagnostics, repair procedures, and workplace safety. Completion of the full sequence provides a strong foundation in automotive technology and service.

	9th Grade	10th Grade	11th Grade	12th Grade
ENGLISH	Literature Composition I	Literature Composition II	Literature Composition III	SCC Composition 105/106 OR English Electives
MATH	Algebra I	Geometry	Algebra II	Math for the Trades
SCIENCE	Environmental & Space Science or Accelerated Science	Biology	Physical Science	Physics for the Trades
SOCIAL STUDIES	Career & Character Exploration/World History	American History or AP US History	Contemporary US History or Modern World History	US Government & Politics
CTE	Introduction to Automotive	Automotive I	Automotive II and II Personal Finance	Work-Based Learning and Internship
FINE ARTS/PE/HEALTH	Drawing/Band/Choir Sports & Fitness	Personal Strength	Health	

### SUGGESTED SUPPORTING ELECTIVES BY INTEREST

**Programming & Development:** Python Fundamentals, Creative Computer Sciences

**Artificial Intelligence & Emerging Tech:** AI in Our World

**Career Readiness:** Lee County CEO, ijag

**Business & Communication:** Accounting I, Speech

**World Languages:** Spanish I, Spanish II



## Building Trades Graduation Pathway

### Recommended Four-Year Graduation Plan

This pathway prepares students for careers in the construction industry by offering hands-on experiences in carpentry, framing, construction techniques, and residential building systems. Students progress from introductory concepts to advanced building projects while learning safety, design, blueprint interpretation, and trade-specific skills.

	<b>9th Grade</b>	<b>10th Grade</b>	<b>11th Grade</b>	<b>12th Grade</b>
<b>ENGLISH</b>	Literature Composition I	Literature Composition II	Literature Composition III	SCC Composition 105/106 OR English Electives
<b>MATH</b>	Algebra I	Geometry	Algebra II	Math for the Trades or SCC Intro to Math Applications
<b>SCIENCE</b>	Environmental & Space Science or Accelerated Science	Biology	Physical Science	Physics for the Trades
<b>SOCIAL STUDIES</b>	Career & Character Exploration/World History	American History or AP US History	Contemporary US History or Modern World History	US Government & Politics
<b>CTE</b>	Introduction to Building Trades	Building Trades I and II	Building Trades II SCC Carpentry I Personal Finance	SCC Construction Materials and Resources Work-Based Learning
<b>FINE ARTS/PE/HEALTH</b>	Drawing/Band/Choir Sports & Fitness	Personal Strength	Health	

### SUGGESTED SUPPORTING ELECTIVES BY INTEREST

**Programming & Development:** Python Fundamentals, Creative Computer Sciences

**Artificial Intelligence & Emerging Tech:** AI in Our World

**Career Readiness:** Lee County CEO, ijag

**Business & Communication:** Accounting I, Speech, Drafting

**World Languages:** Spanish I, Spanish II



## Business Graduation Pathway

### Recommended Four-Year Graduation Plan

This pathway prepares students for careers in business, finance, marketing, and entrepreneurship. Students develop skills in accounting, marketing strategies, financial literacy, and real-world business operations. The pathway offers both foundational knowledge and opportunities for practical application through work-study and entrepreneurial experiences.

	9th Grade	10th Grade	11th Grade	12th Grade
ENGLISH	Literature Composition I	Literature Composition II <i>OR</i> Honors 10 Lit/Comp	Literature Composition III	SCC Composition 105/106 <i>OR</i> AP Literature & Composition
MATH	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Pre-Calculus	Pre-Calculus or Calculus
SCIENCE	Environmental & Space Science or Accelerated Science	Biology	Chemistry, Physics, or AP Biology	Anatomy & Physiology, Chemistry, or Physics
SOCIAL STUDIES	Career & Character Exploration/World History	American History <i>or</i> AP US History	Contemporary US History <i>or</i> Modern World History	US Government & Politics, Sociology
CTE	Computer Science Principles	Accounting I and II and Business in Action	Work Study  Personal Finance	Lee County CEO and Business Marketing
FINE ARTS/PE/ HEALTH	Drawing/Band/ Choir	Band/ Choir	Digital Photography/Band/ Choir Health	Digital Illustration/Band/ Choir
	Sports & Fitness	Personal Strength		

### SUGGESTED SUPPORTING ELECTIVES BY INTEREST

**Programming & Development:** Python Fundamentals, Creative Computer Sciences

**Artificial Intelligence & Emerging Tech:** AI in Our World

**Career Readiness:** Work-Based Learning, Youth Leadership Team

**Business & Communication:** Speech

**World Languages:** Spanish I, Spanish II



## Computer Science Graduation Pathway

### Recommended Four-Year Graduation Plan

This pathway is designed to prepare students for careers in computer science, programming, AI, and related technology fields. Students will develop foundational knowledge in programming, problem-solving, artificial intelligence, and creative computing applications. The pathway equips students for both immediate entry-level opportunities and further education in computer science.

	9th Grade	10th Grade	11th Grade	12th Grade
ENGLISH	Literature Composition I	Literature Composition II <i>OR</i> Honors 10 Lit/Comp	Literature Composition III	SCC Composition 105/106 <i>OR</i> AP Literature & Composition
MATH	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Pre-Calculus	Pre-Calculus or Calculus
SCIENCE	Environmental & Space Science or Accelerated Science	Biology	Chemistry, Physics, or AP Biology	Anatomy & Physiology, Chemistry, or Physics
SOCIAL STUDIES	Career & Character Exploration/World History	American History <i>or</i> AP US History	Contemporary US History <i>or</i> Modern World History	US Government & Politics, Sociology
CTE	Computer Science Principles	Python Fundamentals	Personal Finance  AI in Our World	Creative Computer Sciences, KHS Work Study <i>or</i> Lee County CEO
FINE ARTS/PE/ HEALTH	Drawing/Band/ Choir	Drawing/Band/ Choir	Digital Photography/Band/ Choir Health	Digital Illustration/Band/ Choir
	Sports & Fitness	Personal Strength		

### SUGGESTED SUPPORTING ELECTIVES BY INTEREST

**Programming & Development:** Python Fundamentals, Creative Computer Sciences

**Artificial Intelligence & Emerging Tech:** AI in Our World

**Career Readiness:** Lee County CEO, Work-Based Learning

**Business & Communication:** Accounting I, Speech

**World Languages:** Spanish I, Spanish II



## Family and Consumer Sciences (FCS) Graduation Pathway

### Recommended Four-Year Graduation Plan

This pathway prepares students for careers in early childhood education, culinary arts, fashion design, and human services. Courses build essential life and career skills including child development, nutrition, food preparation, textiles, and sewing. Students also explore family dynamics and workplace readiness.

	9th Grade	10th Grade	11th Grade	12th Grade
ENGLISH	Literature Composition I	Literature Composition II <i>OR</i> Honors 10 Lit/Comp	Literature Composition III	SCC Composition 105/106 <i>OR</i> AP Literature & Composition
MATH	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Pre-Calculus	Pre-Calculus or Calculus
SCIENCE	Environmental & Space Science or Accelerated Science	Biology	Chemistry, Physics, or AP Biology	Anatomy & Physiology, Chemistry, or Physics
SOCIAL STUDIES	Career & Character Exploration/World History	American History <i>or</i> AP US History	Contemporary US History <i>or</i> Modern World History	US Government & Politics, Sociology
CTE	Introduction to Family Consumer Science	Child Development I and II	Sewing I and II  Personal Finance	Culinary I and II
FINE ARTS/PE/ HEALTH	Drawing/Band/ Choir  Sports & Fitness	Drawing/Band/ Choir  Personal Strength	Digital Photography/Band/ Choir Health	Digital Illustration/Band/ Choir

### SUGGESTED SUPPORTING ELECTIVES BY INTEREST

**Programming & Development:** Python Fundamentals, Creative Computer Sciences

**Artificial Intelligence & Emerging Tech:** AI in Our World

**Career Readiness:** Lee County CEO, Work-Based Learning

**Business & Communication:** Accounting I, Speech

**World Languages:** Spanish I, Spanish II



## Health Occupations Graduation Pathway

### Recommended Four-Year Graduation Plan

This pathway prepares students to pursue careers in healthcare through foundational and applied experiences. Courses build essential knowledge in medical terminology, anatomy, patient care, and legal aspects of health services, culminating in opportunities for certification and college credit.

	<b>9th Grade</b>	<b>10th Grade</b>	<b>11th Grade</b>	<b>12th Grade</b>
<b>ENGLISH</b>	Literature Composition I	Literature Composition II or Honors Lit/Comp	Literature Composition III or AP Literature	SCC Composition 105/106 OR English Electives
<b>MATH</b>	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Pre- Calculus	Pre-Calculuc or Calculus
<b>SCIENCE</b>	Environmental & Space Science or Accelerated Science	Biology or AP Biology	Anatomy and Physiology	Chemisty
<b>SOCIAL STUDIES</b>	Career & Character Exploration/World History	American History or AP US History	Contemporary US History or Modern World History	US Government & Politics
<b>CTE</b>	Introduction to Health Occupations	First Aid	SCC Medical Terminology and SCC Med Law and Ethics Personal Finance	SCC Nurse Aid and Healthcare Assistant (certificate)
<b>FINE ARTS/PE/ HEALTH</b>	Drawing/Band/ Choir  Sports & Fitness	Personal Strength	Health	

### SUGGESTED SUPPORTING ELECTIVES BY INTEREST

**Programming & Development:** Python Fundamentals, Creative Computer Sciences

**Artificial Intelligence & Emerging Tech:** AI in Our World

**Career Readiness:** Lee County CEO, Work-Based Learning

**Business & Communication:** Accounting I, Speech

**World Languages:** Spanish I, Spanish II



## Welding & Fabrication Graduation Pathway

### Recommended Four-Year Graduation Plan

This pathway equips students with technical skills in welding processes, blueprint reading, fabrication, and safety procedures. Students develop real-world competencies through hands-on projects and earn industry-recognized certifications, including LEEPS/NC3 certification.

	9th Grade	10th Grade	11th Grade	12th Grade
ENGLISH	Literature Composition I	Literature Composition II	Literature Composition III	SCC Composition 105/106 OR English Electives
MATH	Algebra I	Geometry	Algebra II	Math for the Trades
SCIENCE	Environmental & Space Science or Accelerated Science	Biology	Physical Science	Physics for the Trades
SOCIAL STUDIES	Career & Character Exploration/World History	American History or AP US History	Contemporary US History or Modern World History	US Government & Politics,
CTE	Introduction to Building Trades	Welding I Drafting	Welding/Metal Fabrication Personal Finance	Welding and Fabrication Capstone, Internship
FINE ARTS/PE/ HEALTH	Drawing/Band/ Choir  Sports & Fitness	Personal Strength	Digital Photography  Health	

### SUGGESTED SUPPORTING ELECTIVES BY INTEREST

**Programming & Development:** Python Fundamentals, Creative Computer Sciences

**Artificial Intelligence & Emerging Tech:** AI in Our World

**Career Readiness:** Lee County CEO, Work-Based Learning

**Business & Communication:** Accounting I, Speech

**World Languages:** Spanish I, Spanish II

## High School Course Requirements for Iowa's Regent Universities

In addition to meeting the Regent Admission Index requirement, students must complete the minimum number of high school courses specified below for the institution to which they're applying.

<b><u>Subject Area</u></b>	<b><u>Iowa State University</u></b>	<b><u>University of Iowa</u></b>	<b><u>University of Northern Iowa</u></b>
<b>English</b>	4 years emphasizing writing, speaking, and reading, as well as an understanding and appreciation of literature.	4 years, with an emphasis on the analysis and interpretation of literature, composition, and speech.	4 years, including one year of composition; may include one year of speech, communication, or journalism.
<b>Math</b>	3 years, including at least two years emphasizing elements of algebra, geometry, and advanced algebra.	3 years, including algebra, geometry, and advanced algebra. <i>4 years including pre-calculus required for College of Engineering.</i>	3 years, including the equivalent of algebra, geometry, and algebra II.
<b>Natural Science</b>	3 years, including at least two years emphasizing biology, chemistry, and physics.	3 years, including physical science, biology, chemistry, environmental science, and physics for admission to the Colleges of Liberal Arts and Sciences and Engineering. <i>Nursing: 1 year each of biology, chemistry, and physics.</i>	3 years, including general science, biology, chemistry, earth science, or physics. Laboratory experience is highly recommended.
<b>Social Studies</b>	2 years for Colleges of Agriculture and Life Sciences, Business, Design, Engineering, and Health and Human Sciences. 3 years for Liberal Arts and Sciences.	3 years, with U.S. history and world history recommended for the College of Liberal Arts and Sciences. 2 years for admission to the College of Engineering.	3 years, including anthropology, economics, geography, government, history, psychology, or sociology.
<b>World Language</b>	2 years of a single world language for Colleges of Engineering and Liberal Arts and Sciences.	2 years of a single world language required for admission.	Not required for admission. <i>2 years with a C- or higher in the final term meets UNI's graduation requirement.</i>
<b>Other Courses</b>	No specific elective courses required for admission.	No specific elective courses required for admission.	2 years of additional courses from required subject areas, world language, or fine arts

