

# Maquoketa Valley

## High School

### Course Catalog



2026-2027

# MISSION

The Maquoketa Valley Community School District ensures high levels of learning to empower all students for lifelong success.

# CORE VALUES

Maquoketa Valley will ensure high levels of growth and achievement in all academic areas through quality instruction.

Maquoketa Valley will provide a safe environment that supports students' physical, social, emotional, and behavioral well-being.

Maquoketa Valley will effectively manage district resources to ensure quality facilities, transportation, and food services in a safe, and behavioral well-being.

Maquoketa Valley will collaborate with families and the community to ensure a productive partnership to help students thrive in a local and global community.

# MAQUOKETA VALLEY PORTRAIT OF A GRADUATE

**Critical Thinking:** Analyze and interpret information, problem-solve, evaluate sources for reliability, and consider different perspectives, while being aware of bias

**Adaptability:** Adjust effectively to new situations, work well independently and collaboratively, respond to feedback, and learn from mistakes

**Perseverance:** Stay composed under stress, embrace challenges, navigate uncertainty, and maintain focus and effort over time

**Integrity:** Demonstrate honesty, dependability, and is accountable for their words and actions, including body language and attitude

**Communication:** Actively listen, express ideas clearly (verbal and written) and work well with others through respectful interactions

# Career Ready Practices

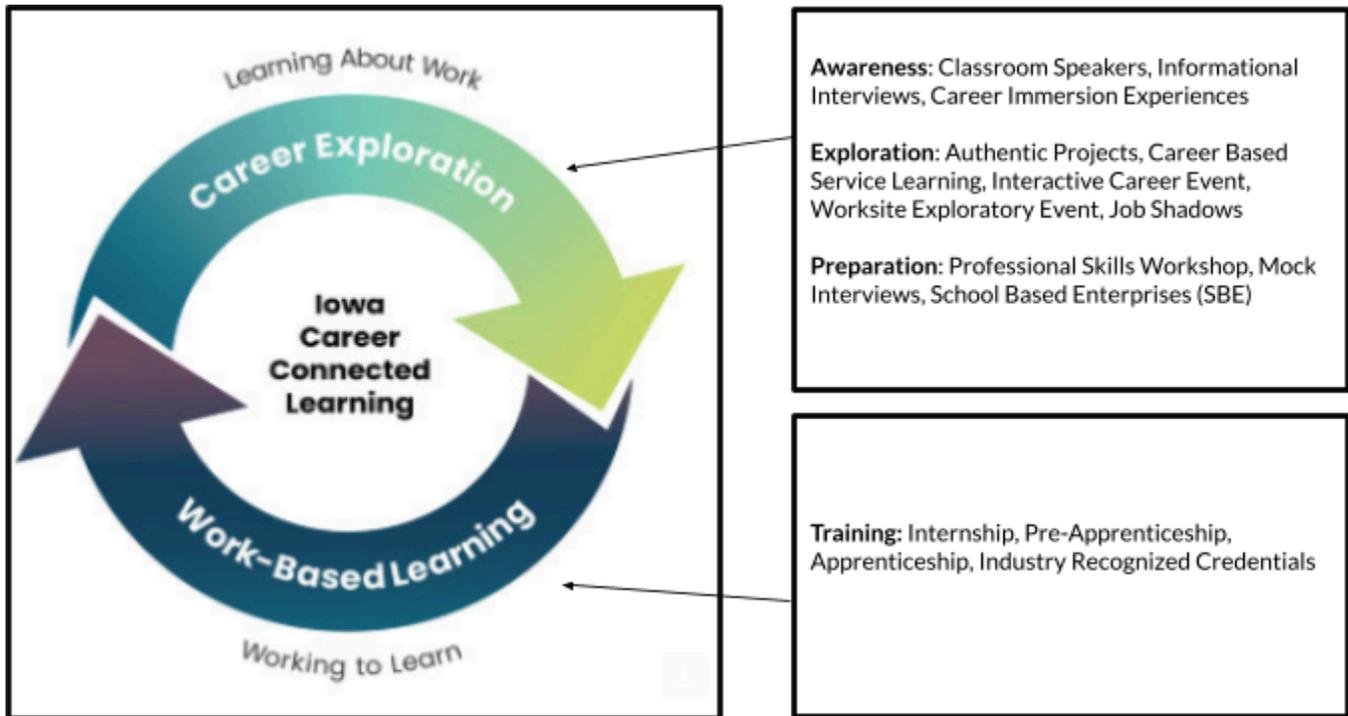
Students are more than the number they earn on a standardized test. Our high school strives to provide students with rigorous academic programs, personalized and career-specific learning experiences, and social and emotional skills that prepare them to be global citizens in an ever-changing world. At Maquoketa Valley, we strive to integrate many Career Ready Practices into our curriculum for the students to see their learning with the real-world.

The **Career Ready Practices**, built on a meta-analysis of over 30 different listings of general professional skills developed by industry and educational institutions, represent the skills needed to succeed in the modern workplace. These practices should be embedded across the pre-kindergarten to workforce continuum.

 <b>Lead as a contributing &amp; professional employee</b>	 <b>Communicate clearly, effectively, &amp; with reason</b>	 <b>Think critically to make sense of problems &amp; persevere in solving them</b>	 <b>Collaborate productively while using cultural &amp; global competencies</b>
 <b>Use digital skills &amp; technologies to enhance productivity &amp; make data-informed decisions</b>	 <b>Remain resilient in a changing workplace &amp; world of work</b>	 <b>Manage time &amp; space effectively</b>	 <b>Demonstrate a creative &amp; innovative mindset</b>
 <b>Act as a good steward of organizational &amp; personal finances &amp; resources</b>	 <b>Navigate an education &amp; career path aligned to strengths, work style, interests, &amp; goals</b>	 <b>Consider the environmental &amp; social impacts of decisions</b>	 <b>Apply appropriate academic &amp; technical skills</b>

## Career Connected Learning

At Maquoketa Valley we also strive to integrate Career Exploration and Work-Based Learning experiences for our students. Connecting classroom learning with the real-world helps students be prepared for life after high school. The academic skills the students learn, along with embedded college and career learning opportunities into their courses, develop grit and perseverance to be able to tackle and achieve their goals, with the mindset that empowers them to approach their future with confidence.



Students explore careers using the components of the Individual Career and Academic Plan. These components include: Self-understanding; Career information; Career exploration experiences; Post-secondary exploration; Career and post-secondary decision.

The high school students at Maquoketa Valley also have access to [My Academic Plan \(MAP\)](#), which is an internet-based career exploration and planning tool. It guides students through a series of steps which allow them to: Identify their own interests, work values, and skills through simple online inventories; Explore career options which best match interests, work values, and skills; Explore career majors or training programs which prepare them for their intended careers, and then identify a college or career training that best fits them. Students can log into this career information system and start exploring.

### Additional Resources

[ICAN website](#) (includes military careers)

[Regents Admission Index](#)

[Regents table for admissions](#)

[Regents table for career income & debt](#)

[NCAA Eligibility](#)

[Career One Stop](#)

[O\\*Net](#)



## Maquoketa Valley Course Descriptions

### **Six Period Requirement:**

- All students are required to take a minimum of six classes each semester.
- Physical Education may not be counted as one of the six classes. This includes PE & Athletic Performance courses.
  - Students enrolled in PE or Athletic Performance during the day can have 1 study hall.
  - Students enrolled in both PE & Athletic Performance during the school day can have 1 study hall.
  - Students must take PE each semester they are enrolled at MV, unless they meet one of the exemptions.
    - There is a PE excusal form that must be signed by parents and the student.
- Band and/or Vocal may be counted as one of the six subjects. Students receive one credit for every successful semester completed and the grade received is included when determining students' grade point averages.
- Concurrent credit courses receive one credit for every successful semester completed and the grade received is included when determining the students' grade point average.
- Correspondence courses receive one credit for every successful semester completed and the grade received is included when determining the students' grade point average. Maquoketa Valley students are allowed a maximum of two correspondence courses, pending principal approval.

### **Study Halls:**

- Study Hall may not be counted as one of the six subjects.
  - Students must write in a "Study Hall" if they wish to take one.
- Seniors may have a maximum of two study halls per semester.
- Freshmen, Sophomores, and Juniors can only have one study hall one semester, and two study halls the other semester if they meet the athletic exemption.
- We encourage all students to enroll in 7 courses every semester they are enrolled.

### **After Initial registration and scheduling, student schedule changes may only be made according to the following criteria:**

1. Approved changes by the teacher.
2. Failure in 1st or 2nd semester course (s).
3. Computer or clerical error. (Master schedule changes)
4. Special education placement.
5. Failure to meet a course prerequisite.
6. Seniors who must enroll in a course to meet graduation requirements.
7. Wanting to add a course without disturbing the rest of the schedule.

# Maquoketa Valley Graduation Requirements

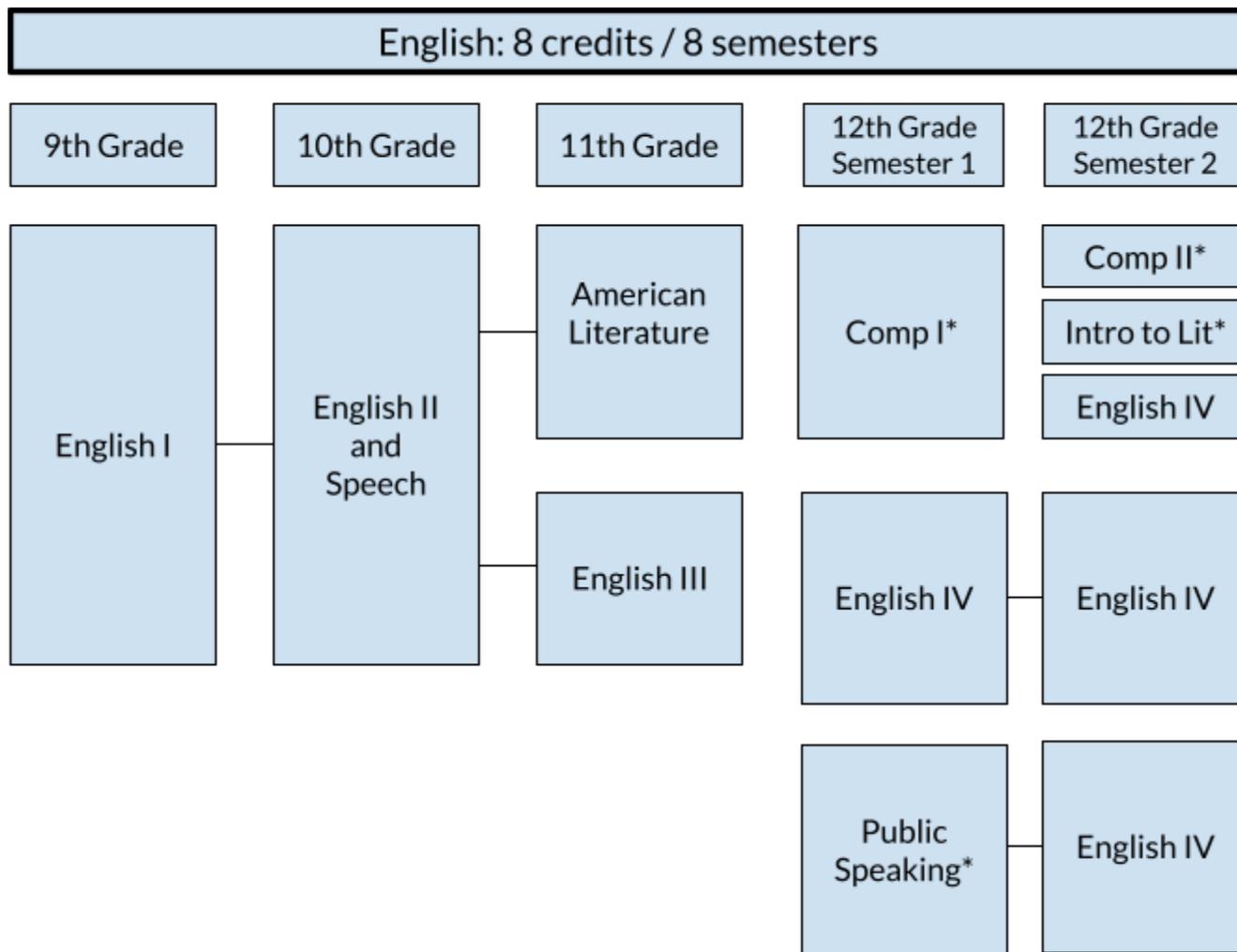
Core Curriculum: 31 credits

Electives: 17 credits

TOTAL: 48 credits

<b>Overview of Core Curriculum Expectations 31 credits</b>	
English	8 credits / 8 semesters
Social Studies	6 credits / 6 semesters
Math	6 credits / 6 semesters
Science	6 credits / 6 semesters
Financial Literacy	1 credit / 1 semester
Health	1 credit / 1 semester
Physical Education	2 credits / 2 semesters
Technology	1 credit / 1 semester

MV Graduation Requirement in English: 8 credits / 8 semesters



\*College Credit Course  
 Public Speaking is only offered 1st Semester and Intro to Lit is only offered 2nd semester. Students must complete Comp I before enrolling in Intro to Lit. If a student plans on graduating early, English course must be “doubled up” during 1st semester.

**English Course Descriptions**

<p><b>Course Name:</b> English I                  Grade: 9                  Course Length: 2 semesters                  SCED Code: 01001</p> <p>In this course, the student will explore diverse stories, plays, and books, including novels students get to choose for themselves, while practicing different types of creative and persuasive writing. Students will also build your communication skills to help them become a more confident reader, writer, and leader in group projects.</p>	<p><b>Course Name:</b> English II                  Grade: 10                  Course Length: 1 semester                  SCED Code: 01002</p> <p>The overall goal of this course is to improve reading, writing, and communication skills. Podcasts and literature will be used to expand the student’s worldview and challenge the student’s thinking.</p>
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<p><b>Course Name:</b> Speech  Grade: 10  Course Length: 1 semester  <i>*Work-Based Learning Experience included in course</i>  SCED Code: 01151</p> <p>This speech class will teach the student how to effectively share ideas and information in various formats, helping students gain confidence in public speaking. Students will practice important skills, including research and writing, while completing a variety of assignments, through storytelling, interviewing, informative talks, and persuasive speeches.</p>	<p><b>Course Name:</b> American Literature  Grade: 11  Course Length: 2 semesters  SCED Code: 01054</p> <p>In this course, the student will explore the American experience through a mix of stories, songs, and films while using an interactive notebook to track your ideas for class discussions and projects. The student will sharpen their grammar and writing skills along the way, but also have the freedom to choose novels to read throughout the year.</p>
<p><b>Course Name:</b> English III  Grade: 11  Course Length: 2 semesters  <i>**Teacher Recommendation Only</i>  SCED Code: 01003</p> <p>This course will allow students to work through the course material at an individualized pace. Much of this course is similar to American Literature, with a focus on short stories, film/video, and informational texts. Students will read frequently, discuss often, and complete various presentations and writings.</p>	<p><b>Course Name:</b> English IV  Grade: 12  Course Length: 2 semesters  SCED Code: 01102</p> <p>This senior-level course is designed for life after high school, focused on the real-world communication skills students will need to be successful. Students will explore relevant themes in literature and digital media, all while preparing for life outside of the classroom.</p>
<p><b>Course Name:</b> Composition I  Grade: 12  Course Length: 1 semester  <b>**Dual / 3 Credit Hours (NICC ENG:105)</b>  <i>**Requires Acculplacer Writeplacer score of 5, ACT English score of 18, or cumulative 2.80 GPA through sophomore year of high school.</i></p> <p>Students will write informative essays, revise them, and reflect upon your writing process. This course provides the student with types of communication to academic and real-world success.</p>	<p><b>Course Name:</b> Composition II  Grade: 12  Course Length: 1 semester  <b>**Dual / 3 Credit Hours (NICC ENG:106)</b>  <i>Prerequisite: Composition I</i></p> <p>This course provides a continued focus on writing as a process. Students will write argumentative essays, revise them, and reflect upon your writing process.</p>

**Course Name:** Public Speaking

Grade: 11 - 12

Course Length: 1 semester (1st Semester only)

*\*Work-Based Learning Experience included in course*

**\*\*Dual / 3 Credit Hours (NICC SPC:112)**

Students will learn positive public speaking and listening habits by giving and listening to introductory, informative, demonstrative, persuasive, and special occasion speeches. Students will be able to experiment with various strategies for building confidence when speaking.

**Course Name:** Introduction to Literature

Grade: 12

Course Length: 1 semester (2nd Semester only)

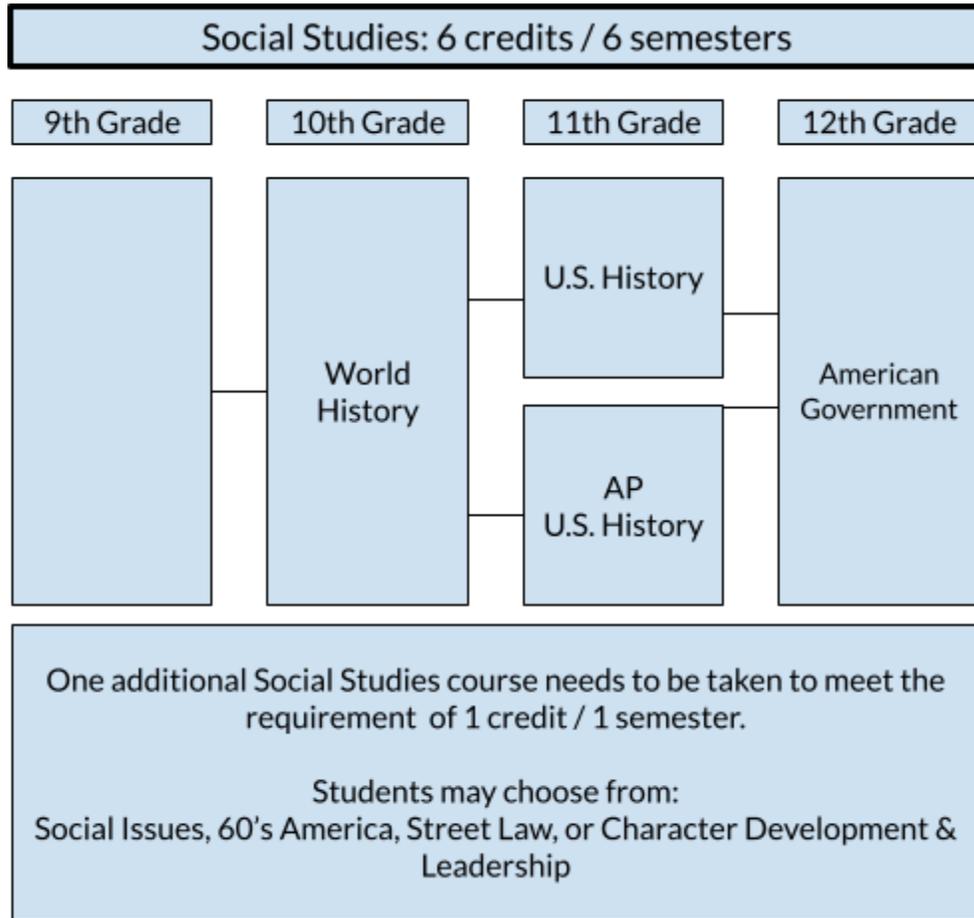
*\*Work-Based Learning Experience included in course*

**\*\*Dual / 3 Credit Hours (NICC LIT:101)**

*Prerequisite: Composition I*

Students will read and analyze short stories and a novel, poetry, and drama to better understand the author's craft. Students will analyze the literature's impact on the reader.

**MV Graduation Requirement is Social Studies: 6 credits / 6 semesters**



Social Studies Course Descriptions	
<p><b>Course Name:</b> World History Grade: 10 Course Length: 2 semesters SCED Code: 04051</p> <p>In this course, students will explore how ancient civilizations shaped the world we live in today. Students will study past governments and economies while learning about big ideas like nationalism and colonialism. Additionally, students will build important skills like analyzing evidence and making historical arguments to connect the past to the present</p>	<p><b>Course Name:</b> U.S. History Grade: 11 Course Length: 2 semesters SCED Code: 04103</p> <p>In this course, students will explore the story of America from its early colonial days all the way to the present. Students will learn about important themes like national identity, politics, and how different groups of people have shaped the country. Along the way, students will build skills like making historical arguments and understanding how the past connects to current life as an active member of society today.</p>

**Course Name:** AP U.S. History

**Grade:** 11

**Course Length:** 2 semesters

**SCED Code:** 04104

In this Advanced Placement course, students will explore the story of America from its early beginnings all the way to the present day. Students will learn about important themes like national identity and politics while building critical skills such as making historical arguments and analyzing evidence. This class follows the College Board framework to prepare you for the AP exam in May. By the end of the year, students will better understand how our country's past has shaped the world we live in today.

**Course Name:** American Government

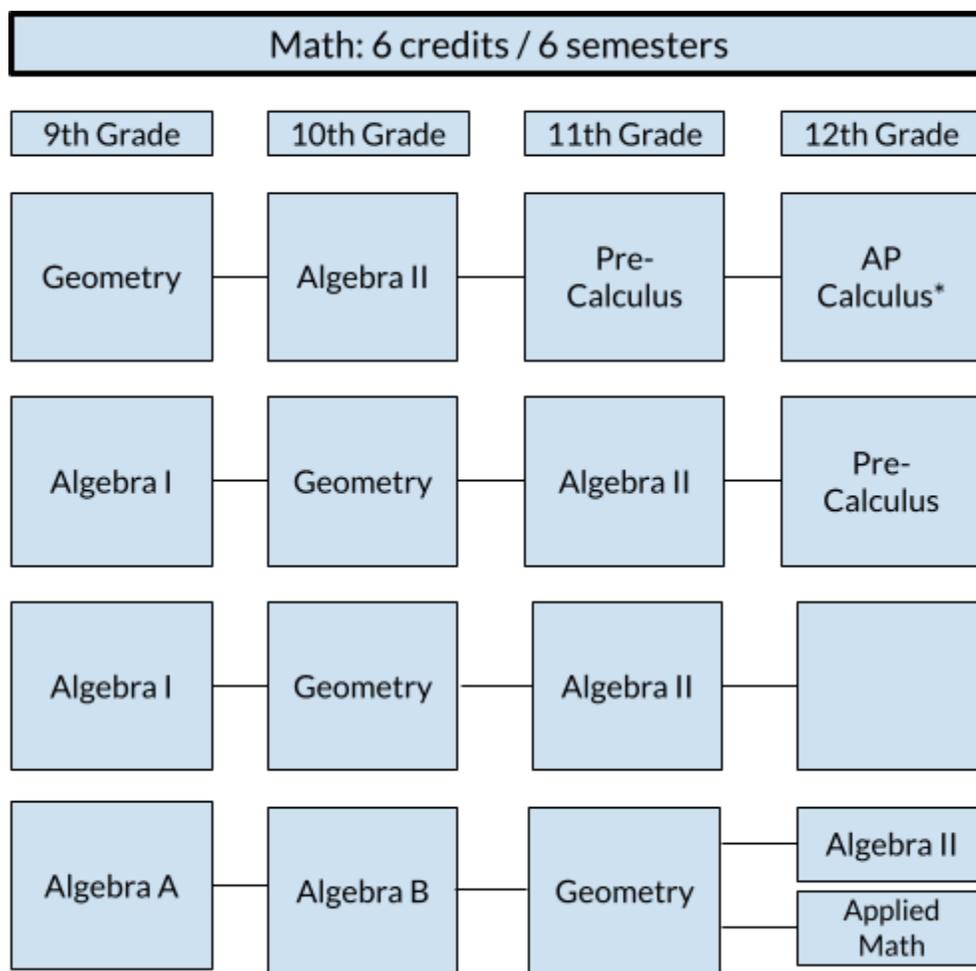
**Grade:** 12

**Course Length:** 1 semester

**SCED Code:** 04151

American Government class teaches the history, structure, principles, and functions of the U.S. political system, focusing on the Constitution, the three branches (legislative, executive, judicial), federalism, political processes (elections, parties, interest groups), and the roles of informed citizens in a participatory democracy. The structure and functions of state and local government are also examined.

## MV Graduation Requirement in Math: 6 credits / 6 semesters



### Math Course Descriptions

**Course Name:** Basic Algebra A  
**Grade:** 9  
**Course Length:** 2 semesters  
*\*\*Teacher Recommendation Only*  
**SCED Code:** 02053

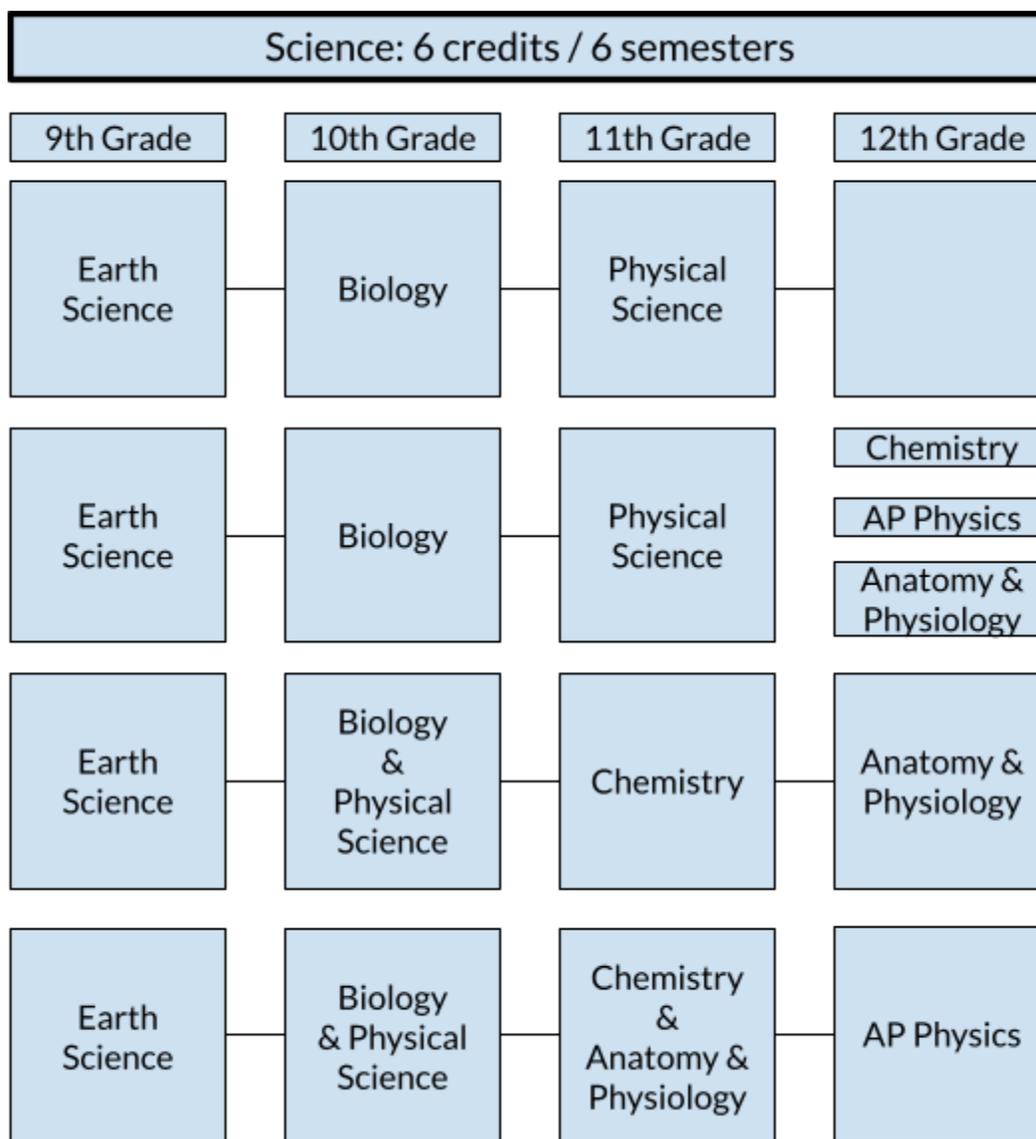
This course moves students beyond basic arithmetic into the world of abstract reasoning, where letters and symbols are used to represent numbers and relationships. Students will learn to describe the world through the language of functions, equations, and graphs. Algebra A covers the same concepts as the FIRST semester of Algebra. A scientific calculator is recommended for this course.

**Course Name:** Basic Algebra B  
**Grade:** 10  
**Course Length:** 2 semesters  
*Prerequisite: Algebra A*  
*\*\*Teacher Recommendation Only*  
**SCED Code:** 02047

This course moves students beyond basic arithmetic into the world of abstract reasoning, where letters and symbols are used to represent numbers and relationships. Students will learn to describe the world through the language of functions, equations, and graphs. Algebra B covers the same concepts as the second semester of Algebra. A scientific calculator is recommended for this course.

<p><b>Course Name:</b> Algebra  <b>Grade:</b> 9  <b>Course Length:</b> 2 semesters  <b>SCED Code:</b> 02052</p> <p>This course moves students beyond basic arithmetic into the world of abstract reasoning, where letters and symbols are used to represent numbers and relationships. Students will learn to describe the world through the language of functions, equations, and graphs. A TI-84 Plus graphing calculator will be required. The color version of TI-84 Plus is allowed, but CAS operating systems are not allowed.</p>	<p><b>Course Name:</b> Geometry  <b>Grade:</b> 9 - 12  <b>Course Length:</b> 2 semesters  <b>Prerequisite:</b> Algebra  <b>SCED Code:</b> 02072</p> <p>Geometry focuses on the study of points, lines, planes, and shapes, emphasizing the development of logical reasoning through the construction of formal deductive proofs. Students explore the properties of two- and three-dimensional figures, including congruence, similarity, and transformations, while integrating algebraic skills to solve problems. A scientific calculator is recommended for this course.</p>
<p><b>Course Name:</b> Algebra II  <b>Grade:</b> 10 - 12  <b>Course Length:</b> 2 semesters  <b>Prerequisite:</b> Geometry  <b>SCED Code:</b> 02056</p> <p>Algebra 2 expands upon foundational algebraic concepts by introducing complex numbers and advanced functions, including polynomial, exponential, logarithmic, and trigonometric relationships. A TI-84 Plus graphing calculator will be required. The color version of TI-84 Plus is allowed, but CAS operating systems are not allowed.</p>	<p><b>Course Name:</b> Precalculus  <b>Grade:</b> 11 - 12  <b>Course Length:</b> 2 semesters  <b>Prerequisite:</b> Algebra II  <b>SCED Code:</b> 02110</p> <p>Precalculus is designed to bridge the gap between intermediate algebra and the rigors of calculus. Students will move beyond basic computational skills to develop a deep, functional understanding of mathematical relationships. The curriculum focuses on the analysis of functions and the logic of trigonometry. A TI-84 Plus graphing calculator will be required. The color version of TI-84 Plus is allowed, but CAS operating systems are not allowed.</p>
<p><b>Course Name:</b> AP Calculus  <b>Grade:</b> 12  <b>Course Length:</b> 2 semesters  <b>Prerequisite:</b> Precalculus  <b>SCED Code:</b> 02124</p> <p>AP Calculus AB is a college-level mathematics course designed to introduce students to the "mathematics of change." This course moves beyond the static relationships of algebra and geometry to explore how quantities accumulate and evolve. We focus on three main pillars: Limits, Derivatives, and Integrals. A TI-84 Plus graphing calculator will be required. The color version of TI-84 Plus is allowed, but CAS operating systems are not allowed.</p>	<p><b>Course Name:</b> Applied Math  <b>Grade:</b> 12  <b>Course Length:</b> 2 semesters  <b>SCED Code:</b> 02154</p> <p>Applied Math is a non-algebra review of basic mathematics geared toward the senior student about to enter the job market. A scientific calculator is recommended for this course.</p>

MV Graduation Requirement in Science: 6 credits / 6 semesters



Science Course Descriptions

**Course Name:** Earth Science  
**Grade:** 9  
**Course Length:** 2 semesters  
**SCED Code:** 03001

In this course students will learn about the formation of Earth and the Universe, the processes that shape the earth like plate motion, and the rock cycle. Students also learn about weather and climate.

**Course Name:** Biology  
**Grade:** 10  
**Course Length:** 2 semesters  
**Prerequisite:** Earth Science  
**SCED Code:** 03051

In this course, students will investigate living things, their characteristics, and their interactions. Biology focuses on ecosystems, body systems, genetics, ancestry, and human impacts.

**Course Name:** Physical Science

Grade: 10 - 11

Course Length: 2 semesters

SCED Code: 03159

In this course students will investigate properties of matter using the Periodic Table of Elements. Students will also learn about energy, force, and motion.

**Course Name:** Chemistry

Grade: 11 - 12

Course Length: 2 semesters

*Prerequisite: Physical Science*

SCED Code: 03101

In this course students will study matter and the changes matter undergoes. Chemistry builds on the concepts learned in Physical Science like the Periodic Table, chemical bonding, chemical reactions, and gas laws.

**Course Name:** Anatomy & Physiology

Grade: 11 - 12

Course Length: 2 semesters

*Prerequisite or Corequisite: Chemistry*

SCED Code: 03053

In this course students will deepen their understanding of how the human body is organized and functions. Students will gain hands-on lab experience through dissections.

**Course Name:** AP Physics

Grade: 11 - 12

Course Length: 2 semesters

*Prerequisite: Algebra II*

SCED Code: 03156

In this course, students will be introduced to college-level physics. Students will explore concepts like forces, energy, rotation, motion, and momentum. Students will be asked to carry out higher order math problems and apply the results in a lab format.

**MV Graduation Requirement in Financial Literacy: 1 credit / 1 semester**

<b>Financial Literacy Course Descriptions</b>	
<p><b>Course Name:</b> Consumer Finance Grade: 11 - 12 Course Length: 1 semester <b>**Dual / 3 Credit Hours, if 70 or higher on exam (UNI)</b></p> <p>Students will take control of their financial future and learn the secrets to building real wealth. Students will master the life-changing skills of budgeting, investing, credit management, and more to ensure they're always ahead of the game with their money. Optional UNI credit final exam.</p>	

**MV Graduation Requirement in Health: 1 credit / 1 semester**

<b>Health Course Descriptions</b>	
<p><b>Course Name:</b> Health I Grade: 9 - 12 Course Length: 1 semester SCED Code: 08051</p> <p>Health I is a comprehensive semester course designed to implement the basic knowledge of health for adolescents. The primary focus of this course helps students examine their lifestyles, select goals, and make plans to achieve and maintain optimum health.</p>	

## MV Graduation Requirement in Physical Education: 2 credits / 2 semesters

### Physical Education Course Descriptions

**Course Name:** Physical Education  
Grade: 9 - 12  
Course Length: 1 semester  
*\*Work-Based Learning Experience included in course*  
SCED Code: 08001

The goals of this course are to develop physical fitness. Students will establish an understanding of team and individual sports, and promote a healthy lifestyle.

**Course Name:** Athletic Performance  
Grade: 9 - 12  
Course Length: 1 semester  
SCED Code: 08009

The goal of this course is to develop athletic abilities. This will include weight training, plyometrics, speed training, and sports specific athletic enhancement.

PE is required every semester unless a student meets one of the exemptions (listed below). A PE excusal form must be signed by the students and parent to be exempt, and then approved by a school official.

PE Exemptions:

**1. Academic Courses Not Otherwise Available:**

\*If your student (s) wishes to take a full load of 8 academic courses or take 7 academic courses with a mandatory study hall, your child may be exempt from Physical Education as long as the student is in the process of completing graduation requirements. If your student(s) drop an academic course, they will immediately be enrolled in Physical Education.

**2. Organized and Supervised Athletic Programs:**

\*If your student (s) are participating in an organized and supervised athletic program or Marching Band, your student may be excused from Physical Education for one semester each school year. The exception to this rule, if they participate in the fall of their senior year, they may be excused from Physical Education for both semesters of the school year. If your student(s) discontinues the supervised athletic program, they will immediately be enrolled into Physical Education.

**3. Medical Exemption:**

\*If the parent/guardian files a statement by a physician that your student(s) is not "physically able" to participate in Physical Education. A physician's statement must be on file for each year a student is requesting a medical exemption. A copy of the doctor's statement must be attached to this form.

**4. Religious Exemption:**

\*If the parent/guardian of a student(s) files a written statement with the school principal that physical education conflicts with the "student's religious belief," the student shall be exempt from participation.

Maquoketa Valley cannot grant your student(s) permission to be exempt from Physical Education until this form is signed and dated, then returned to the designated office.

## MV Graduation Requirement in Technology: 1 credit / 1 semester

### Technology Course Descriptions

\*\*The courses listed here meet the requirement for a technology credit.\*\*

**Course Name:** Graphic Design / Yearbook  
 Grade: 10 - 12  
 Course Length: 1 semester (2nd Semester Only)  
*\*Work-Based Learning Experience included in course*  
 SCED Code: 05162

This course emphasizes the strategic arrangement of design elements and principles to communicate messages through images and text. Students will create diverse professional products, including the school yearbook, social media advertisements, branding symbols, and product designs, while exploring the computer's role in contemporary art.

**Course Name:** Photography  
 Grade: 9 - 12  
 Course Length: 1 semester  
*\*Work-Based Learning Experience included in course*  
 SCED Code: 05167

Students will be introduced to the basic principles of photography and camera usage. Emphasis will be placed on the artistic qualities of photography and photo composition but will also familiarize students with digital cameras and camera options. Students will work with both black and white photography and color as well as design elements. Students will work with digital cameras and Adobe Photoshop.

**Course Name:** Microsoft Office I & Keyboarding  
 Grade: 9 - 12  
 Course Length: 1 semester  
*\*Work-Based Learning Experience included in course*  
**\*\*Dual / 3 Credit Hours (NICC ADM: 116)**

Master the professional tools that real-world businesses actually use every day! This course turns students into a successful user of Word, Excel, and PowerPoint, giving students the skills and official certifications needed to stand out in any job market.

**Course Name:** Microsoft Office II & Information Computing  
 Grade: 10 - 12  
 Course Length: 1 semester  
*\*Work-Based Learning Experience included in course*  
*Prerequisite: Microsoft Office I & Keyboarding C- or higher*  
**\*\*Dual / 3 Credit Hours (NICC ADM: 116)**

Master Excel by turning complex data into professional results and earn an Advanced Excel Certification! Students will gain elite skills that will give them a massive advantage in any career they choose.

**Course Name:** Computer Science Principles  
 Grade: 9 - 12  
 Course Length: 1 semester  
 SCED Code: 10011

Learn how to control the technology that runs the world! From exploring how hardware and software work together to writing your first lines of Python code, you'll gain the essential skills to solve real-world problems with code.

**Course Name:** CAD Exploration  
 Grade: 9 - 12  
 Course Length: 1 semester  
 SCED Code: 21107

Ready to move from the drawing board to the computer screen? CAD (Computer-Aided Drafting) is where engineering meets technology. In this course, students will learn how to use AutoCAD, the same industry-standard software used by professional architects and engineers worldwide, to create precise digital designs.

**Overview of Elective Options**  
**17 credits**  
**\*Indicates Dual Credit Course**

**Agriculture**

- Introduction to Agricultural Leadership & FFA (9 - 12)
- Introduction to Agricultural Science (9 - 12)
- Crop Production (10 - 12)
- Principles of Agronomy\* (10 - 12)
- Animal Science I (10 - 12)
- Animal Science II (10 - 12)
- Animal Science III\* (11 - 12)
- Agriculture Business (11 - 12)
- Horticulture I (10 - 12)
- Horticulture II: Greenhouse Management (10 - 12)
- Natural Resources (9 - 12)
- Ag Biotechnology (11 - 12)
- Ag Metal Fabrication I (9 - 12)
- Advanced Ag Leadership (10 - 12)
- Agriscience Applications (9 - 12)
- Veterinary Science (10 - 12)

**Art**

- Ceramics (9 - 12)
- Photography (9 - 12)
- Drawing I (9 - 12)
- Drawing II (9 - 12)
- Graphic Design (10 - 12)
- Two Dimensional Art (9 - 12)
- Three Dimensional Art (9 - 12)
- Art Portfolio - Technology (12)
- Art Portfolio - Traditional (12)

**Business**

- Introduction to Business (9 - 12)
- Introduction to Accounting I (10 - 12)
- Microsoft Office I & Keyboarding\* (9 - 12)
- Microsoft Office II & Information Computing\* (10 - 12)
- Principles of Management (10 - 12)
- Sports & Entertainment Marketing (9 - 12)

**English**

- Creative Writing I (9 - 12)
- Creative Writing II (9 - 12)
- Public Speaking\* (11 - 12)
- Introduction to Literature\* (12)

**Family & Consumer Science**

- Fashion Design (9 - 12)
- Advanced Fashion Design (9 - 12)
- FCS Advanced Studies- Fashion (12)
- Beginning Foods (9 - 12)
- Advanced Foods (10 - 12)
- FCS Advanced Studies - Foods (12)
- Child Development (11 - 12)
- Interior Design (9 - 12)
- Independent Living (11 - 12)

**Health**

- Health II (9 - 12)

<p style="text-align: center;"><b>Industrial Technology</b></p> <ul style="list-style-type: none"> <li>● Engineering (9 - 12)</li> <li>● Electricity (9 - 12)</li> <li>● Woodworking I (9-12)</li> <li>● Woodworking II (10 - 12)</li> <li>● Wood Productions (10 -12)</li> <li>● Advanced Construction (10 -12)</li> <li>● Drafting I (9 - 12)</li> <li>● Drafting II (9 - 12)</li> <li>● Small Gas Engines (9 - 12)</li> <li>● CAD Exploration (9 - 12)</li> <li>● Construction Trades (10 - 12)</li> </ul>	<p style="text-align: center;"><b>Informational Technology</b></p> <ul style="list-style-type: none"> <li>● Computer Science Principles (9 - 12)</li> </ul>
<p style="text-align: center;"><b>Mathematics</b></p> <ul style="list-style-type: none"> <li>● Statistics (11 - 12)</li> </ul>	<p style="text-align: center;"><b>Music</b></p> <ul style="list-style-type: none"> <li>● Instrumental Music (9 - 12)</li> <li>● Music Theory (9 - 12)</li> <li>● Vocal Music (9 - 12)</li> </ul>
<p style="text-align: center;"><b>School-to-Work</b></p> <ul style="list-style-type: none"> <li>● Employability Skills* (11 - 12)</li> <li>● Internship / Mentorship (11 - 12)</li> </ul>	<p style="text-align: center;"><b>Social Studies</b></p> <ul style="list-style-type: none"> <li>● Character Development &amp; Leadership (11 - 12)</li> <li>● The 60's America (10 - 12)</li> <li>● Social Issues (9 - 12)</li> <li>● Street Law (10 - 12)</li> </ul>
<p style="text-align: center;"><b>World Language</b></p> <ul style="list-style-type: none"> <li>● Spanish I (9 - 12)</li> <li>● Spanish II (10 - 12)</li> <li>● Spanish III (11 - 12)</li> <li>● Spanish IV (12)</li> <li>● Spanish Culture and Conversations (11 - 12)</li> <li>● Spanish for the Workforce (9 - 12)</li> </ul>	

**Elective Course Descriptions**  
(17 Credits Needed to fulfill Graduation Requirements)

*\*\*Students may choose courses from this list of electives or courses they have not already taken from the core course list.\*\**

<p><b>Advanced Placement (AP) Courses</b> Courses that can earn college credit upon receiving a passing score on placement exam (check with college of choice about transferability of credit).</p>	<ul style="list-style-type: none"> <li>● AP Physics</li> <li>● AP U.S. History</li> <li>● AP Calculus</li> </ul>
<p><b>Biliteracy Seal</b> An award given by a school district in recognition of those who have studied and attained proficiency in two or more languages by high school graduation.</p>	<ul style="list-style-type: none"> <li>● Currently enrolled in Spanish III or IV</li> <li>● ACT English score of 18+; Students must score a 5 or higher in ALL areas of reading, writing, speaking, and listening</li> <li>● States you are bilingual for workforce or college placement (can earn 6-18 college credits at the university of choice)</li> </ul>
<p><b>Dual Credit Courses (Concurrent)</b> High school courses that also earn college credit (check with college of choice about transferability of credit). Some college credit courses required ALEKS and/or ACCUPLACER testing.</p>	<p><b>Agriculture</b></p> <ul style="list-style-type: none"> <li>● Principles of Agronomy</li> <li>● Animal Science III</li> </ul> <p><b>Business &amp; Information Technology</b></p> <ul style="list-style-type: none"> <li>● Microsoft Office I &amp; Keyboarding</li> <li>● Microsoft Office II &amp; Information Computing</li> <li>● Introduction to Accounting I</li> <li>● Employability Skills</li> </ul> <p><b>English</b></p> <ul style="list-style-type: none"> <li>● Composition 1</li> <li>● Composition 2</li> <li>● Introduction to Literature</li> <li>● Public Speaking</li> </ul> <p><b>Financial Literacy</b></p> <ul style="list-style-type: none"> <li>● Consumer Finance (credit earned through UNI)</li> </ul>
<p><b>Additional College Credit Courses</b> Some college credit courses required ALEKS and/or ACCUPLACER testing.</p>	<ul style="list-style-type: none"> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Jones County Regional Center</a> (JREC)</li> <li>● <a href="#">NICC Course Catalog</a></li> </ul>

## Agriculture Course Descriptions

\*\*In order for a student to be in FFA, they must be enrolled in 1 semester of an Agricultural Education course per year.\*\*

**Course Name:** Introduction to Agricultural Leadership and FFA  
 Grade: 9 - 12  
 Course Length: 1 semester (1st Semester only)  
*\*Work-Based Learning Experience included in course*  
 SCED Code: 18001

In Intro to Ag Leadership & FFA, topics covered are leadership, communication, fundamentals of FFA and parliamentary procedure. It is highly recommended that if a student wishes to participate in FFA during high school that they take this course.

**Course Name:** Introduction to Agricultural Science  
 Grade: 9 - 12  
 Course Length: 1 semester  
*\*Work-Based Learning Experience included in course*  
 SCED Code: 18001

In Intro to Ag Science students are introduced to career pathways and topics such as animal science, agronomy/plant science, agriscience, and natural resources.

**Course Name:** Crop Production  
 Grade: 10 - 12  
 Course Length: 1 semester  
*\*Work-Based Learning Experience included in course*  
*Prerequisite: Introduction to Agricultural Science*  
 SCED Code: 18051

In Crop Production, students learn about soils, plant anatomy and physiology, integrated pest management (insects, diseases, weeds) and crop identification.

**Course Name:** Principles of Agronomy  
 Grade: 10 - 12  
 Course Length: 1 semester  
*\*Work-Based Learning Experience included in course*  
*Prerequisite: Crop Production*  
**\*\*Dual / 3 Credit Hours (NICC AGA: 114)**

Principles of Agronomy focuses on crops, soil and environmental sciences, climate, tillage and seeding, seed and grain quality, weed and pest management and sustainable agriculture.

**Course Name:** Animal Science I  
 Grade: 10 - 12  
 Course Length: 1 semester  
*\*Work-Based Learning Experience included in course*  
*Prerequisite: Introduction to Agricultural Science*  
 SCED Code: 18101

Animal Science 1 focuses on the history and use of animals, housing and facility requirements and anatomy and physiology of livestock. Students will earn the *IRC: Youth for the Quality Care of Animals (YQCA)*.

**Course Name:** Animal Science II  
 Grade: 10 - 12  
 Course Length: 1 semester  
*\*Work-Based Learning Experience included in course*  
*Prerequisite: Animal Science I*  
**SCED Code:**

Animal Science II focuses on animal nutrition, genetics and reproduction practices within the animal industry. Students will earn the *IRC: Youth for the Quality Care of Animals (YQCA)*.

<p><b>Course Name:</b> Animal Science III  Grade: 11 - 12  Course Length: 1 semester  <i>*Work-Based Learning Experience included in course</i>  <b>**Dual / 3 Credit Hours (NICC AGS: 114)</b>  <i>Prerequisite: Animal Science I and Animal Science II</i>  <b>SCED Code:</b></p> <p>Animal Science III introduces students to domestication, principles of food and animal production, marketing and animal industry issues. Students will earn the <i>IRC: Youth for the Quality Care of Animals (YQCA) &amp; Beef Quality Assurance (BQA)</i>.</p>	<p><b>Course Name:</b> Agriculture Business  Grade: 11 - 12  Course Length: 1 semester  <i>*Work-Based Learning Experience included in course</i>  <b>SCED Code:</b></p> <p>In Ag Business, students will engage in management concepts such as budgets, balance sheets, checking accounts, income statements, and cash flow statements as students apply them to their fictitious business.</p>
<p><b>Course Name:</b> Horticulture I  Grade: 10 - 12  Course Length: 1 semester (1st Semester only)  <i>*Work-Based Learning Experience included in course</i>  <b>SCED Code: 18052</b></p> <p>In Horticulture I, concepts covered are careers in horticulture, landscape design, plant propagation, floral design and hydroponic management. Students will gain real-life application throughout the course.</p>	<p><b>Course Name:</b> Horticulture II: Greenhouse Management  Grade: 10 - 12  Course Length: 1 semester (2nd Semester only)  <i>*Work-Based Learning Experience included in course</i>  <b>SCED Code: 18052</b></p> <p>In Horticulture II, students will care and manage the plants for that semester's plant sale while learning basics of horticulture, seed starting, basket design, marketing, budgeting and sales. Students in this class will be required to work a set amount of plant sale shifts.</p>
<p><b>Course Name:</b> Natural Resources  Grade: 9 - 12  Course Length: 1 semester  <i>*Work-Based Learning Experience included in course</i>  SCED Code: 18504</p> <p>Natural Resources focuses on conservation practices, stewardship, land use, water quality and North American wildlife. Students are able to apply this knowledge to their real lives.</p>	<p><b>Course Name:</b> Ag Biotechnology  Grade: 11 - 12  Course Length: 1 semester  <i>*Work-Based Learning Experience included in course</i>  <b>SCED Code:</b></p> <p>Ag Biotechnology explores the impact biotechnology has on agriculture. Learning includes DNA &amp; genetic engineering and exploring careers in biotechnology.</p>

<p><b>Course Name:</b> Ag Metal Fabrication I  Grade: 9 - 12  Course Length: 1 semester  <i>*Work-Based Learning Experience included in course</i>  SCED Code: 18404</p> <p>In Ag Metal Fabrication students will learn characteristics of metal, welding (MIG and Arc), types of welds, oxy acetylene cutting and plasma cutting. Students will have hands-on experience in welding.</p>	<p><b>Course Name:</b> Advanced Ag Leadership  Grade: 10 - 12  Course Length: 1 semester  <i>*Work-Based Learning Experience included in course</i>  SCED Code: 18203</p> <p>Enrollment in this course must be approved by the FFA Advisor. This course focuses on improving leadership and communication skills through book studies, CDEs, and event management.</p>
<p><b>Course Name:</b> Agriscience Applications  Grade: 9 - 12  Course Length: 1 semester  <i>*Work-Based Learning Experience included in course</i>  <b>SCED Code:</b></p> <p>In Agriscience Applications, students will develop, facilitate and present an agriscience research project that aligns with the National FFA Agriscience Research program.</p>	<p><b>Course Name:</b> Veterinary Science  Grade: 10-12  Course Length: 1 Semester  <i>*Work-Based Learning Experience included in course</i>  <b>SCED Code:</b></p> <p>The focus of Veterinary Science is on prevention, diagnosis and treatment techniques of animal diseases, viruses and injury as well as veterinary tool identification. Students will earn the IRC: Youth for the Quality Care of Animals (YQCA)</p>

**Art Course Descriptions**

<p><b>Course Name:</b> Ceramics  Grade: 9 - 12  Course Length: 1 semester  SCED Code: 05159</p> <p>Ceramics is an art course designed to introduce students to clay, pottery and sculpting. Students will learn the basics of clay preparation and storage as well as proper use of tools and equipment. Students will learn to build simple clay projects using a variety of methods including pinch, coil, and slab pottery. Students will also be introduced to the ceramic wheel and pottery.</p>	<p><b>Course Name:</b> Photography  Grade: 9 - 12  Course Length: 1 semester  <i>*Work-Based Learning Experience included in course</i>  SCED Code: 05167</p> <p>Students will be introduced to the basic principles of photography and camera usage. Emphasis will be placed on the artistic qualities of photography and photo composition but will also familiarize students with digital cameras and camera options. Students will work with both black and white photography and color as well as design elements. Students will work with digital cameras and Adobe Photoshop.</p>
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<p><b>Course Name:</b> Drawing I  <b>Grade:</b> 9 - 12  <b>Course Length:</b> 1 semester  <b>SCED Code:</b> 05156</p> <p>Drawing I introduces students to fundamental art techniques and materials including pencil, charcoal, and color. Throughout the course, students will master line, composition, and perspective while developing observation skills through the study of light and shadow. By working from real-life models, participants will refine their ability to translate the physical world into realistic and stylized drawings.</p>	<p><b>Course Name:</b> Drawing II  <b>Grade:</b> 9 - 12  <b>Course Length:</b> 1 semester  <b>SCED Code:</b> 05156</p> <p>Drawing II builds upon the foundational skills and techniques established in Drawing I while encouraging students to specialize in their individual artistic interests. The course emphasizes advanced real-life observation using a diverse range of media, including ink, charcoal, pastels, and colored pencils.</p>
<p><b>Course Name:</b> Graphic Design / Yearbook  <b>Grade:</b> 10 - 12  <b>Course Length:</b> 1 semester (2nd Semester Only)  <i>*Work-Based Learning Experience included in course</i>  <b>SCED Code:</b> 05162</p> <p>This course emphasizes the strategic arrangement of design elements and principles to communicate messages through images and text. Students will create diverse professional products, including the school yearbook, social media advertisements, branding symbols, and product designs, while exploring the computer's role in contemporary art.</p>	<p><b>Course Name:</b> Two Dimensional Art  <b>Grade:</b> 9 - 12  <b>Course Length:</b> 1 semester  <i>*Work-Based Learning Experience included in course</i>  <b>SCED Code:</b> 05151</p> <p>Two-dimensional art is a course designed to introduce students to painting and printmaking processes and techniques. Students will create projects that show creativity and knowledge of techniques while learning to use a variety of tools and materials. Students can expect to gain experience in a variety of media including water color painting, acrylic painting, oil painting, pencil, linoleum block printing, and silkscreen printing.</p>
<p><b>Course Name:</b> Three Dimensional Art  <b>Grade:</b> 9 - 12  <b>Course Length:</b> 1 semester  <b>SCED Code:</b> 05154</p> <p>Three-Dimensional Art is a class that focuses on architecture, sculpture, jewelry, and macrame. Students will learn how to use a variety of mediums and techniques to build a dynamic visual form.</p>	<p><b>Course Name:</b> Art Portfolio- Technology  <b>Grade:</b> 12  <b>Course Length:</b> 1 semester  <b>Prerequisite:</b> Photography and Graphic Design  <b>SCED Code:</b> 05169</p> <p>Designed for college-bound seniors, this independent course focuses on developing a professional portfolio through an in-depth exploration of technology-based art. Students will master advanced digital skills using software including Jostens Yearbook Avenue, Photoshop, Illustrator, and Canva, to create high-level photography and graphic design projects.</p>

**Course Name:** Art Portfolio- Traditional  
Grade: 12  
Course Length: 1 semester  
Prerequisite: Ceramics, Drawing 1 or 2, and Two or Three Dimensional Art  
SCED Code: 05170

This independent course allows college-bound seniors to cultivate a professional portfolio by mastering a wide range of traditional media, including drawing, ceramics, and diverse craft materials.

### Business Course Descriptions

**Course Name:** Introduction to Business  
Grade: 9 - 12  
Course Length: 1 semester  
*\*Work-Based Learning Experience included in course*  
SCED Code: 12051

Ready to be your own boss? This exciting elective teaches students how to launch a brand, master business planning, and lead like a pro in the global market!

**Course Name:** Introduction to Accounting I  
Grade: 10 - 12  
Course Length: 1 semester  
**\*\*Dual / 3 Credit Hours (NICC ACC: 115)**

Get a head start on college and career by mastering the financial procedures every business needs to succeed! Students will gain high-demand, real-life skills like tracking cash flow and creating professional financial reports, while earning both high school and NICC college credit.

**Course Name:** Microsoft Office I & Keyboarding  
Grade: 9 - 12  
Course Length: 1 semester  
*\*Work-Based Learning Experience included in course*  
**\*\*Dual / 3 Credit Hours (NICC ADM: 116)**

Master the professional tools that real-world businesses actually use every day! This course turns students into a successful user of Word, Excel, and PowerPoint, giving students the skills and official certifications needed to stand out in any job market.

**Course Name:** Microsoft Office II & Information Computing  
Grade: 10 - 12  
Course Length: 1 semester  
*\*Work-Based Learning Experience included in course*  
*Prerequisite: Microsoft Office I & Keyboarding C- or higher*  
**\*\*Dual / 3 Credit Hours (NICC ADM: 116)**

Master Excel by turning complex data into professional results and earn an Advanced Excel Certification! Students will gain elite skills that will give them a massive advantage in any career they choose.

<p><b>Course Name:</b> Principles of Management  Grade: 10 - 12  Course Length: 1 semester  <i>*Work-Based Learning Experience included in course</i>  SCED Code: 12055</p> <p>Step into the shoes of a leader and learn how to run a successful organization from the ground up! This course gives students the real-world playbook for managing people, making decisions, and leading a team in the competitive business world.</p>	<p><b>Course Name:</b> Sports and Entertainment Marketing  Grade: 9 - 12  Course Length: 1 semester  <i>*Work-Based Learning Experience included in course</i>  Prerequisite: Introduction to Business  SCED Code: 12163</p> <p>Master the marketing used to build global superstars and sell out massive stadiums! Students will learn how to use marketing concepts and apply them to real-life scenarios.</p>
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**English Course Descriptions**

<p><b>Course Name:</b> Creative Writing I  Grade: 9 - 12  Course Length: 1 semester  SCED Code: 01104</p> <p>Unleash your imagination and find your unique voice in this dynamic exploration of the written word. Students will master the craft of storytelling by experimenting with diverse genres, including fractured fairy tales, urban legends, and using music lyrics to create a unique story.</p>	<p><b>Course Name:</b> Creative Writing II  Grade: 9 - 12  Course Length: 1 semester  SCED Code: 01104</p> <p>In this course, students will experiment with unique styles like microfiction (super short stories) and magical realism (where the impossible feels normal). Students will build a daily writing habit using a creative journal and end the year with a professional portfolio that showcases the student's best projects and unique writer's voice.</p>
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<p><b>Course Name:</b> Public Speaking  Grade: 11 - 12  Course Length: 1 semester (1st Semester only)  <i>*Work-Based Learning Experience included in course</i>  <b>**Dual / 3 Credit Hours (NICC SPC:112)</b></p> <p>Students will learn positive public speaking and listening habits by giving and listening to introductory, informative, demonstrative, persuasive, and special occasion speeches. Students will be able to experiment with various strategies for building confidence when speaking.</p>	<p><b>Course Name:</b> Introduction to Literature  Grade: 12  Course Length: 1 semester (2nd Semester only)  <i>*Work-Based Learning Experience included in course</i>  <b>**Dual / 3 Credit Hours (NICC LIT:101)</b>  Prerequisite: Composition I</p> <p>Students will read and analyze short stories and a novel, poetry, and drama to better understand the author's craft. Students will analyze the literature's impact on the reader.</p>
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## Family & Consumer Science Course Descriptions

**Course Name:** Fashion Design

Grade: 9 - 12

Course Length: 1 semester

*\*Work-Based Learning Experience included in course*

SCED Code: 19256

This course introduces students to the world of clothing and textiles like professionals in the fashion industry. Students will learn basic garment construction, fabric care, and the elements of design. Projects include learning how to use the embroidery machines and heat presses, and making pajama pants, simple tops, pillows, hats, scarves, and easy quilts.

**Course Name:** Advanced Fashion Design

Grade: 9 - 12

Course Length: 1 semester

*\*Work-Based Learning Experience included in course*

*Prerequisite: Fashion Design or teacher approval.*

**SCED Code:**

This advanced course in fashion design builds on a student's sewing foundation through hands-on garment construction. Students will master pattern reading while interpreting instructions. Projects include making dresses, skirts, blouses, jackets, home furnishings, and applying advanced quilting techniques, use of the embroidery machines and heat transfers.

**Course Name:** FCS Advanced Studies - Fashion

Grade: 12

Course Length: 1 semester

*\*Work-Based Learning Experience included in course*

*Prerequisite: Fashion Design & Advanced Fashion*

*Design*

**SCED Code:**

Students will design, manufacture, and market fashion projects. Students will use technology to create professional patterns and industry-standard marketing materials.

**Course Name:** Beginning Foods

Grade: 9 - 12

Course Length: 1 semester

*\*Work-Based Learning Experience included in course*

SCED Code: 19254

This introductory course focuses on kitchen essentials and nutrition. Students will learn cooking basics, food prep, life skills focused on meal planning, buying food, and etiquette.

**Course Name:** Advanced Foods

Grade: 10 - 12

Course Length: 1 semester

*\*Work-Based Learning Experience included in course*

*Prerequisite: Beginning Foods*

**SCED Code:**

This course focused on advanced meal management and professional careers in the food industry. Core topics include meat, poultry, seafood, dairy, eggs, pastries, cakes, cookies, soups, salads, and casseroles to create meals.

**Course Name:** FCS Advanced Studies - Foods

Grade: 12

Course Length: 1 semester

*\*Work-Based Learning Experience included in course*

*Prerequisite: Beginning Foods & Advanced Foods*

**SCED Code:**

This advanced course will have students run a food-based business from the ground up. Students will run the operations, market the business, and manage the finances of this school-based business.

<p><b>Course Name:</b> Child Development  Grade: 11 - 12  Course Length: 1 semester  <i>*Work-Based Learning Experience included in course</i>  SCED Code: 19255</p> <p>This course explores how children grow physically, mentally, emotionally, morally, and socially from birth to age 6. Students will complete a preschool observation. By studying how children evolve, students will gain deeper insights into their own personal growth.</p>	<p><b>Course Name:</b> Interior Design  Grade: 9 - 12  Course Length: 1 semester  <i>*Work-Based Learning Experience included in course</i>  SCED Code: 19263</p> <p>This course explores how structure, furnishings, and surrounds shape a home's environment. Students will learn to evaluate housing options, set personal living goals, and apply the principles and elements of design to decorate interior spaces.</p>
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<p><b>Course Name:</b> Independent Living  Grade: 11 - 12  Course Length: 1 semester  <i>*Work-Based Learning Experience included in course</i>  SCED Code: 19259</p> <p>This course prepares students for the transition to adulthood, focusing on practice skills needed to manage education, careers, and personal life. Topics covered in this course include life management, financial literacy, relationships &amp; balance, domestic skills, and social responsibility.</p>	
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<b>Health Course Descriptions</b>
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<p><b>Course Name:</b> Health II  Grade: 9 - 12  Course Length: 1 semester  SCED Code: 08052</p> <p>Students will focus on the knowledge, skills and understanding of responsible behavior to maintain optimum health. Students will learn about food and nutrition and how it affects your entire life, managing their weight, eating disorders, food safety, infectious diseases, and fitness.</p>	
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## Information Technology Course Descriptions

**Course Name:** Computer Science Principles  
Grade: 9 - 12  
Course Length: 1 semester  
SCED Code: 10011

Learn how to control the technology that runs the world! From exploring how hardware and software work together to writing your first lines of Python code, you'll gain the essential skills to solve real-world problems with code.

## Industrial Technology Course Descriptions

**Course Name:** Engineering  
Grade: 9 - 12  
Course Length: 1 semester  
SCED Code: 10013

Ever wonder how your favorite tech is built or how massive bridges stay standing? Engineering I is a hands-on intro to the world of making things work. Instead of just reading about it, students will be in the driver's seat—designing, building, and fixing real projects.

**Course Name:** Electricity  
Grade: 9 - 12  
Course Length: 1 semester  
*\*Work-Based Learning Experience included in course*  
SCED Code: 17102

Are you interested in how the lights in your house actually turn on? Electricity is a hands-on, one-semester course where the student will go from understanding basic energy to wiring up real-world circuits. Whether the student wants to be a professional electrician or just wants to know how to fix things around the house, this class gives you the "spark" you need.

**Course Name:** Woodworking I  
Grade: 9 - 12  
Course Length: 1 semester  
*\*Work-Based Learning Experience included in course*  
**SCED Code: 17003**

Ready to get out of your seat and start building? Woodworking I is a hands-on, project-based class where the student will learn how to turn raw lumber into finished projects. Students will go from learning the basics of shop safety to mastering the tools used by professional builders.

**Course Name:** Woodworking II  
Grade: 10 - 12  
Course Length: 1 semester  
*\*Work-Based Learning Experience included in course*  
*Prerequisite: Woodworking I*  
**SCED Code: 17003**

Ready to take your woodworking skills to the next level? Woodworking II moves away from small practice tasks and puts students in charge of a major build. This is where students will transition from a beginner to a shop lead, spending time designing and constructing a high-quality project of the student's choice.

<p><b>Course Name:</b> Wood Productions  Grade: 10 - 12  Course Length: 1 semester  <i>*Work-Based Learning Experience included in course</i>  Prerequisite: Woodworking I  SCED Code: 17005</p> <p>Ever wanted to start your own business? In this class, students will become the bosses of their wood projects. Students won't just build one thing for themselves, they will mass produce products and sell it to the public.</p>	<p><b>Course Name:</b> Advanced Construction  Grade: 10 - 12  Course Length: 1 semester  <i>*Work-Based Learning Experience included in course</i>  Prerequisite: Woodworking I  SCED Code: 17002</p> <p>Ready to move from small shop projects to full-scale buildings? Construction is where students put their skills to work on real-world structures. This course takes everything the students learned in the classroom and applies it to actual construction sites, teaching students how to build, frame, and finish structures from top to bottom.</p>
<p><b>Course Name:</b> Drafting I  Grade: 9 - 12  Course Length: 1 semester  <b>SCED Code:</b></p> <p>Before a skyscraper is built or a new car is designed, someone has to draw it. Drafting I is an entry level course where students will learn the "language of drafters and engineers." Students will move away from messy sketches and learn how to create precise, professional blueprints using traditional drawing tables and mechanical equipment.</p>	<p><b>Course Name:</b> Drafting II  Grade: 9 - 12  Course Length: 1 semester  Prerequisite: Drafting I  <b>SCED Code:</b></p> <p>Ready to take your drawings from flat shapes to 3D designs? Drafting II is where students' skills get real. Students will continue using professional drawing tables and mechanical equipment, but this time, students will focus on making designs "pop" off the page and design a home from their own imagination.</p>
<p><b>Course Name:</b> Small Gas Engines  Grade: 9 - 12  Course Length: 1 semester  <i>*Work-Based Learning Experience included in course</i>  SCED Code: 20110</p> <p>Ever wanted to know exactly how a motor works? In Gas Engines, students stop guessing and start turning wrenches. This is a 100% hands-on course where students take apart real small engines to see what makes them tick, and then put them back together so the engines run perfectly.</p>	<p><b>Course Name:</b> CAD Exploration  Grade: 9 - 12  Course Length: 1 semester  SCED Code: 21107</p> <p>Ready to move from the drawing board to the computer screen? CAD (Computer-Aided Drafting) is where engineering meets technology. In this course, students will learn how to use AutoCAD, the same industry-standard software used by professional architects and engineers worldwide, to create precise digital designs.</p>

**Course Name:** Construction Trades  
Grade: 10 - 12  
Course Length: 1 semester  
*\*Work-Based Learning Experience included in course*  
SCED Code: 17001

This course is a hands-on introduction to the world of building and renovation. Students move beyond the classroom and into the shop to learn the essential skills used by professional contractors to build and maintain homes.

### Mathematics Course Descriptions

**Course Name:** Statistics  
Grade: 11 - 12  
Course Length: 1 semester  
*Prerequisite: Algebra II*  
SCED Code: 02205

Statistics provides a basic introduction to the methods used for collecting, summarizing, and interpreting data to make informed decisions under uncertainty. Students explore key concepts such as descriptive statistics, probability distributions, and inferential techniques like confidence intervals and hypothesis testing to analyze real-world patterns. *A TI-84 Plus graphing calculator will be required. The color version of TI-84 Plus is allowed, but CAS operating systems are not allowed.*

### Music Course Descriptions

**Course Name:** Instrumental Music  
Grade: 9 - 12  
Course Length: 2 semesters  
SCED Code: 05101

Instrumental music meets five days a week during the school day and is open to all students interested in participating. All students enrolled participate in Marching Band in Quarter 1 and Concert Band in Quarters 2-4. Performances include home football games, home concerts, various home basketball games, IHSMA Large Group Contest, and commencement.

**Course Name:** Music Theory  
Grade: 9 - 12  
Course Length: 1 semester  
SCED Code: 05113

Music Theory is a one semester course designed to teach the foundations of music. Students enrolled in this course will explore music concepts like notation, key signatures, time signatures, scales, chords, cadences, and much more. The course is open to all high school students regardless of prior musical experience.

**Course Name:** Vocal Music  
Grade: 9 - 12  
Course Length: 2 semesters  
SCED Code: 05110

Vocal music (choir) meets five days a week during the school day and is open to all students interested in participating. All students enrolled have the opportunity to audition for vocal jazz. Performances include home concerts, IHSMA Solo/Ensemble and Large Group Contest, and commencement.

### School-to-Work Course Descriptions

**\*\*It is required to complete the Employability Skills course with a grade of "C" or higher prior to being able to participate in an Internship.\*\***

**Course Name:** Employability Skills  
Grade: 11 - 12  
Course Length: 1 semester  
**\*\*Dual / 3 Credit Hours (NICC WBL: 110)**

Students will build a professional resume and cover letter that gets them hired, and then master the office etiquette needed to navigate any workplace with total confidence! Students will step into the real world for a required job shadow to see their future career in action.

**Course Name:** Internship / Mentorship  
Grade: 11 - 12  
Course Length: 1 - 3 semesters  
(1-2 credits per semester)  
*\*Work-Based Learning Experience included in course*  
*Prerequisite: Employability Skills*  
SCED Code: 22998

Students will turn their career goals into reality by gaining hands-on experience and professional connections through a real-world internship! Whether paid or unpaid, students will spend 4 to 8+ hours a week on-site mastering the employability skills that will jumpstart their future. Students must have a 2.0 GPA or higher and provide their own transportation.

## Social Studies Course Descriptions

**Course Name:** Character Development & Leadership  
Grade: 11 - 12  
Course Length: 1 semester  
SCED Code: 04306

In this course, students will work to improve their leadership skills by studying core character traits through ethical dilemmas, group discussions, and guest speakers. Along with building character, students will strengthen their public speaking and emotional intelligence through activities that challenge their thinking. The class uses many different ways of learning to help the students apply these lessons to their own life and future goals.

**Course Name:** The 60's America  
Grade: 10 - 12  
Course Length: 1 semester  
SCED Code: 04106

Students will analyze the major events and important people of the decade of the 1960s. Students will learn how this time period reshaped American culture and society in many ways.

**Course Name:** Social Issues  
Grade: 9 - 12  
Course Length: 1 semester  
SCED Code: 04064

In this course, you will explore a variety of everyday topics from a social perspective. The class is student-directed, meaning much of what you study will be based on current events and modern culture. You will also develop important critical thinking skills, such as analyzing evidence and building strong arguments, to better understand how people behave in different social settings.

**Course Name:** Street Law  
Grade: 10 - 12  
Course Length: 1 semester  
*\*Work-Based Learning Experience included in course*  
SCED Code: 04165

This course addresses general problems in the areas of criminal, consumer, family, housing and individual rights laws. Students learn about the law of everyday life including understanding of their legal rights and responsibilities, knowledge of everyday legal problems, and the ability to analyze, evaluate, and in some situations, resolve legal disputes.

## World Language Course Descriptions

**Course Name:** Spanish 1- Foundations  
Grade: 9 - 12  
Course Length: 2 semesters  
SCED Code: 24052

This introductory course focuses on building basic communication skills through themes like family, food, and school. Students will master the present tense and explore Spanish-speaking cultures through active projects, singing, and dancing. It is designed to provide the foundational language skills needed to become a global citizen.

**Course Name:** Spanish II- Intermediate Fluency  
Grade: 10 - 12  
Course Length: 2 semesters  
*Prerequisite: Spanish I*  
SCED Code: 24053

This intermediate course helps students achieve fluency by mastering past, future, and command verb tenses. Students will explore complex topics like health and media to build the vocabulary needed to narrate stories and express opinions. By the end of the year, students will have a solid foundation for advanced Spanish studies.

**Course Name:** Spanish III- College Prep & Communication  
Grade: 11 - 12  
Course Length: 2 semesters  
*Prerequisite: Spanish I and Spanish II*  
SCED Code: 24054

This college-preparatory course bridges the gap between intermediate and advanced Spanish, focusing on real-world application and interpretive skills. Students will engage with authentic texts and cultural themes to master complex communication, spontaneous conversation, and formal presentations. Successful completion prepares students for university placement exams and the AAPPL exam to earn the State and Global Seals of Biliteracy.

**Course Name:** Spanish IV- Spanish Global Communications  
Grade: 12  
Course Length: 2 semesters  
*\*Work-Based Learning Experience included in course*  
*Prerequisite: Spanish I, Spanish II, and Spanish III*  
SCED Code: 24055

This course focuses on high-level accuracy and cultural aspects across interpersonal, interpretive, and presentational communication. Students will analyze complex themes and authentic media to gain the fluency needed for debating and discussing professional and academic topics. The year concludes with the AAPPL exam, allowing students to earn the State and Global Seals of Biliteracy for college and career success.

**Course Name:** Spanish Culture & Conversations  
Grade: 11 - 12  
Course Length: 1 semester  
*Prerequisite: Spanish II*  
SCED Code: 24059

This course is designed to rapidly improve oral fluency, pronunciation, and listening skills through real-time, spontaneous communication. Using films, podcasts, and storytelling, students will analyze cultural themes and engage in collaborative discussions to maximize conversational confidence. It is a high-impact course specifically tailored for those pursuing the Seals of Biliteracy.

**Course Name:** Spanish for the Workforce  
Grade: 9 - 12  
Course Length: 1 semester  
**SCED Code: 24099**

This course focuses on high-frequency "survival Spanish" specifically designed for professional settings like healthcare, retail, and the trades. Students will prioritize functional oral proficiency and cultural competency to handle real-world interactions and build rapport with clients and colleagues. Students will create a personalized professional portfolio and phrasebook tailored to each student's specific career goals.

## Special Education Course Descriptions

**Course Name:** L.S. 9th Language Arts  
Grade: 9  
Course Length: 2 semesters  
SCED Code: 01001

This individualized course strengthens reading and writing skills while addressing specific areas for improvement. It will focus on the essential skills needed to succeed in the general education classrooms.

**Course Name:** L.S. 10th Language Arts  
Grade: 10  
Course Length: 2 semesters  
SCED Code: 01002

This course focuses on improving the student's reading and writing skills through projects and activities. Students will work specifically on improving their reading comprehension and helping students express their ideas more clearly.

**Course Name:** L.S. 11th Language Arts  
Grade: 11  
Course Length: 2 semesters  
SCED Code: 01003

This course is a continuation of the previous language arts course. Students will continue to work on improving their overall written language and reading comprehension skills.

**Course Name:** L.S. 12th Language Arts  
Grade: 12  
Course Length: 2 semesters  
SCED Code: 02003

This course focuses on writing and reading fundamental skills that are related to the world of work. Real-life application projects will be implemented into the course.

**Course Name:** L.S. Basic Math  
Grade: 9 - 12  
Course Length: 2 - 4 semesters  
**SCED Code:**

This course covers the essentials of everyday math, focusing on core topics like fractions, decimals, and percentages. The goal is to master these fundamental skills to be prepared for more advanced math classes.

**Course Name:** L.S. Pre-Algebra I  
Grade: 9 - 12  
Course Length: 2 semesters  
**SCED Code:**

This course introduces you to algebraic thinking by focusing on integers, variables, and solving equations. Students will also cover ratios, proportions, and graphing on a coordinate plane. This course is a bridge to help students move from basic math to more advanced algebra skills.

**Course Name:** L.S. Pre-Algebra II  
Grade: 10 - 12  
Course Length: 2 semesters  
**SCED Code:**

This course is a continuation of Pre-Algebra I. Topics learned in this course include computing with more complex equations and inequalities. Students will also explore linear functions, square roots, and the Pythagorean Theorem.

**Course Name:** L.S. Applied Math  
Grade: 11- 12  
Course Length: 2 semesters  
**SCED Code:**

This class focuses on using practical math for budgeting and problem-solving to handle real-life tasks, involving fractions, decimals, percentages, and integers. Students will gain hands-on experience applying math to everyday situations.

<p><b>Course Name:</b> L.S. Earth Science  Grade: 9 - 12  Course Length: 2 semesters  <b>SCED Code:</b></p> <p>Students will learn about the formation of Earth and the Universe and the processes that shape the earth. Students will also learn about weather and climate.</p>	<p><b>Course Name:</b> L.S. Life Science  Grade: 9 - 12  Course Length: 2 semesters  <b>SCED Code:</b></p> <p>Students will investigate living things, their characteristics, and their interactions. Life Science focuses on ecosystems, body systems, genetics, and human impacts.</p>
<p><b>Course Name:</b> L.S. Physical Science  Grade: 9 - 12  Course Length: 2 semesters  <b>SCED Code:</b></p> <p>Students will investigate properties of matter using the Periodic Table of Elements. Students will also learn about energy, force, and motion.</p>	<p><b>Course Name:</b> L.S. Personal Finance I  Grade: 11 - 12  Course Length: 1 semester  SCED Code: 19262</p> <p>Students will take control of their financial future and learn the secrets to building real wealth. Units covered in this class include money management, borrowing, and soft skills related to real-life.</p>
<p><b>Course Name:</b> L.S. Personal Finance II  Grade: 11 - 12  Course Length: 1 semester  <b>SCED Code:</b></p> <p>This course is a continuation of L.S. Personal Finance I. Units covered in the class include earning power, financial services, and insurance.</p>	<p><b>Course Name:</b> L.S. Government  Grade: 11 - 12  Course Length: 1 Semester  <b>SCED Code:</b></p> <p>This class covers the U.S. government including the Constitution, the three branches of government, elections and political parties. The structure and functions of state and local government are also examined.</p>
<p><b>Course Name:</b> L.S. Social Studies I  Grade: 9 - 12  Course Length: 2 semesters  <b>SCED Code:</b></p> <p>Students will explore the world using maps to learn about Iowa, the United States, and different types of climate. Students will also learn how our government works and how to be a great citizen by following laws and being a productive citizen within the community.</p>	<p><b>Course Name:</b> L.S. Social Studies II  Grade: 9-12  Course Length: 2 semesters  <b>SCED Code:</b></p> <p>Students will learn the story of the United States and people who helped shape our democratic country. Students will explore important events from the past and make connections to our present way of living.</p>

<p><b>Course Name:</b> L.S. Social Studies III  <b>Grade:</b> 9-12  <b>Course Length:</b> 2 semesters  <b>SCED Code:</b></p> <p>Students will explore the world and learn how people live and work. The different aspects of culture will be explored: religion, hobbies, foods, sports, holidays, and tradition will be implemented.</p>	<p><b>Course Name:</b> L.S. Cooking I  <b>Grade:</b> 9 - 12  <b>Course Length:</b> 2 Semesters  <i>*Work-Based Learning Experience included in course</i>  <b>SCED Code:</b></p> <p>Students will learn kitchen basics like safety, using tools, and reading recipes. Students will also practice real-world skills by making grocery lists and shopping in the local community for ingredients. Students will also run a snack business for teachers by creating order forms, tracking sales on spreadsheets, and preparing and delivering delicious treats.</p>
<p><b>Course Name:</b> L.S. Cooking II  <b>Grade:</b> 9 - 12  <b>Course Length:</b> 2 Semesters  <i>*Work-Based Learning Experience included in course</i>  <b>SCED Code:</b></p> <p>This course is a continuation of L.S. Cooking I, where students will expand the snack business and use technology to track orders and supplies. Students will work on real-life communication and organization skills by working with customers and managing daily tasks in the kitchen.</p>	<p><b>Course Name:</b> L.S. Internship  <b>Grade:</b> 9 - 12  <b>Course Length:</b> up to 8 semesters  <i>*Work-Based Learning Experience included in course</i>  <b>SCED Code:</b></p> <p>In this course, students will practice employability skills. Students get hands-on work experience by working 4 to 8+ hours a week at a local business or within the school.</p>

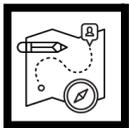


# ADVANCED MANUFACTURING

The Advanced Manufacturing Career Cluster blends innovative technologies and practices to enhance design and production. It covers areas such as engineering, research and development, automation and artificial intelligence, equipment maintenance, safety protocols, and quality control. This Cluster aims to increase efficiency, reduce waste, ensure safety, and produce high-quality goods, driving the industry’s growth and adapting to modern demands.

Sub-clusters include:

- Engineering
  - Develop and improve manufacturing processes and systems and to design products
  - Mechanical, electrical, biopharmaceutical, materials, and industrial engineers
  - Research and development and prototyping for emerging products and systems
- Industrial Machinery
  - Work with manual equipment: CNC machines, 3D printers, quality control equipment, material handling tools, maintenance and repair devices, specialized machining, fabrication equipment, and energy management systems
  - Set up, operate, and repair advanced machinery
- Production & Automation
  - Hands-on management and execution of manufacturing processes
  - Involves automation, overseeing production lines, quality control, assembly and product finishing, ensuring efficient workflow
- Robotics
  - Developing, implementing, and maintaining technologies that deploy robotics
  - Programming robots, overseeing production lines enhanced by robotics, and mechatronics
  - Ensuring technologies operate efficiently and safely
- Safety and Quality Assurance
  - Ensuring workplace safety, worker health, environmental compliance and product quality



## CHART YOUR COURSES

The following high school courses can help prepare you for success in this field after high school. Start charting your courses in your 4-year plan based on your post-secondary plans.

CAREER TRAINING	2-YEAR DEGREE	4-YEAR DEGREE +
Recommended Core Courses <ul style="list-style-type: none"> <li>● Two Dimensional Art</li> <li>● Three Dimensional Art</li> <li>● CAD Exploration</li> <li>● Engineering</li> <li>● Electricity</li> <li>● Small Gas Engines</li> <li>● Ag Metal Fabrication</li> <li>● Drafting I</li> <li>● Character Development and Leadership</li> <li>● Employability Skills*</li> <li>● Internship</li> </ul>	Recommended Core Courses <ul style="list-style-type: none"> <li>● Algebra II</li> <li>● Computer Science Principles</li> <li>● Intro to Business</li> <li>● Principles of Management</li> <li>● Drafting II</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>	Recommended Core Courses <ul style="list-style-type: none"> <li>● Pre-Calculus</li> <li>● AP Calculus</li> <li>● Statistics</li> <li>● AP Physics</li> <li>● Chemistry</li> <li>● Spanish I</li> <li>● Spanish II</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>

\*Denotes College Credit

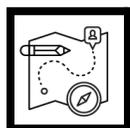


# CONSTRUCTION

The Construction Career Cluster focuses on professions involved in designing, planning, managing, and executing projects in the built environment. It emphasizes sustainable building practices to ensure that structures are both environmentally responsible and resilient.

Sub-clusters include:

- Architecture & Civil Engineering
  - Planning, designing, and drafting of infrastructure, structures, and landscapes
  - Develop sustainable, safe, and aesthetically pleasing spaces while ensuring compliance with regulations
  - Residential, commercial, industrial, and public infrastructure projects
  - Blends creativity, technical precision, and problem-solving to meet modern and environmental challenges
- Construction Planning & Development
  - Focused on preconstruction activities, property development, and land use planning
  - Involves site analysis, surveying, cost estimation, securing required permits, conducting feasibility studies, environmental compliance, and construction management
- Equipment Operation & Maintenance
  - Manage and service the heavy equipment and machinery aligned to building and infrastructure projects
  - Ensure tools operate efficiently and safely
  - Use technical knowledge with mechanical skills
  - Execute construction tasks, maintenance of machinery reliability and adhere to safety standards
- Skilled Trades
  - Skilled work related to constructing, maintaining, and repairing buildings and infrastructure
  - Use hands-on skills in carpentry, welding, masonry, electrical, plumbing, and HVAC-R (heating, ventilation, air conditioning, and refrigeration)
  - Ensure functionality and safety in both new and existing infrastructure and structures



## CHART YOUR COURSES

The following high school courses can help prepare you for success in this field after high school. Start charting your courses in your 4-year plan based on your post-secondary plans.

CAREER TRAINING	2-YEAR DEGREE	4-YEAR DEGREE +
Recommended Core Courses <ul style="list-style-type: none"> <li>● Geometry</li> <li>● CAD Exploration</li> <li>● Electricity</li> <li>● Character Development and Leadership</li> <li>● Drafting I</li> <li>● Woodworking I</li> <li>● Woodworking II</li> <li>● Construction Trades</li> <li>● Ag Metal Fabrication</li> <li>● Small Gas Engines</li> <li>● Microsoft Office I &amp; Keyboarding*</li> <li>● Employability Skills*</li> <li>● Internship</li> </ul>	Recommended Core Courses <ul style="list-style-type: none"> <li>● Algebra II</li> <li>● Intro to Business</li> <li>● Principles of Management</li> <li>● Microsoft Office II and Information Computing*</li> <li>● Advanced Construction</li> <li>● Drafting II</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>	Recommended Core Courses <ul style="list-style-type: none"> <li>● Pre-Calculus</li> <li>● AP Calculus*</li> <li>● Statistics</li> <li>● AP Physics*</li> <li>● Chemistry</li> <li>● Spanish I</li> <li>● Spanish II</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>

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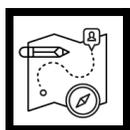


# SUPPLY CHAIN & TRANSPORTATION

The Supply Chain & Transportation Career Cluster focuses on the transfer, coordination, and management of goods from production to consumption, ensuring efficient movement across various modes of transportation including air, ground, and water, and maintenance of the respective transport modes. This Cluster integrates logistics and distribution networks to facilitate the seamless flow of materials and products, playing a crucial role in global commerce, economic development, and community health.

Sub-clusters include:

- Air & Space Transportation
  - Design, operate, and manage both air and space transportation
  - Maintenance of electrical equipment such as radios, navigation equipment, and autopilot systems
  - Ensure the safety and efficiency of air transport and advance space travel, and research
- Ground & Rail Transportation
  - Design, operate, and manage of automotive, trucking, rail operations, and logistic services
  - Focus on efficient and safe ground transport
- Maintenance & Repair
  - Repair and maintenance of transportation systems (ground vehicles, rail vehicles, aircraft, and nautical vessels)
  - Integrate advancements of technology
- Marine Transportation
  - Design, operate, and management of maritime vessels and infrastructure for the transportation of goods
  - Ensure the safety of maintenance of recreational vessels)
- Planning & Logistics
  - Manages and plans supply chain coordination, and efficient material sourcing with transportation
  - Enhance efficiency and safety, minimize waste, and facilitate timely delivery
  - Integrates modern technology to improve production, drive innovation, and maintain competitiveness in global trade systems



## CHART YOUR COURSES

The following high school courses can help prepare you for success in this field after high school. Start charting your courses in your 4-year plan based on your post-secondary plans.

CAREER TRAINING	2-YEAR DEGREE	4-YEAR DEGREE +
Recommended Core Courses <ul style="list-style-type: none"> <li>● Small Gas Engines</li> <li>● Ag Metal Fabrication I</li> <li>● CAD Exploration</li> <li>● Electricity</li> <li>● Microsoft Office I &amp; Keyboarding*</li> <li>● Public Speaking*</li> <li>● Character Development and Leadership</li> <li>● Employability Skills*</li> <li>● Internship</li> </ul>	Recommended Core Courses <ul style="list-style-type: none"> <li>● Algebra II</li> <li>● Microsoft Office II and Information Computing*</li> <li>● Intro to Business</li> <li>● Principles of Management</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>	Recommended Core Courses <ul style="list-style-type: none"> <li>● Pre-Calculus</li> <li>● AP Calculus*</li> <li>● Statistics</li> <li>● Spanish I</li> <li>● Spanish II</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>

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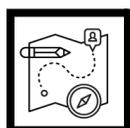


# ARTS, ENTERTAINMENT, & DESIGN

The Arts, Entertainment, & Design Career Cluster focuses on the creative roles in visual and performing arts, film, journalism, fashion, interior design, and creative technologies. This Cluster focuses on creating, producing, and sharing artistic and design work across multiple platforms, aiming to entertain, inform, beautify, and inspire.

Sub-clusters include:

- Design & Digital Arts
  - Create and produce visually engaging digital content (animation, visual marketing, graphic design, print media, augmented & virtual reality, web design, game design, and user interfaces/user experiences)
  - Combines artistic talent and technology to produce interactive content, entertainment, commercial product and packaging design and promotional materials
- Fashion & Interiors
  - Bridges the creative and commercial aspects of fashion design, production, marketing, and sales with the art and science of interior design and decoration
- Fine Arts
  - Create, promote, and sell visual art forms (painting, sculpture, and pottery)
- Lighting & Sound Technology
  - Create immersive experiences in film, music, performing arts, fine arts, and interiors
  - Manipulate sound and light to set moods, highlight themes and enhance audience engagement
- Media Production & Broadcasting
  - Encompasses film, television, journalism, communications, writing, and broadcasting
  - Involves content creation, direction, production, cinematography, distribution and publishing
- Performing Arts
  - Focused on technical and management elements of performing arts and entertainment industry
  - Plays a vital role in cultural preservation, expression, and entertainment



## CHART YOUR COURSES

The following high school courses can help prepare you for success in this field after high school. Start charting your courses in your 4-year plan based on your post-secondary plans.

CAREER TRAINING	2-YEAR DEGREE	4-YEAR DEGREE +
Recommended Core Courses <ul style="list-style-type: none"> <li>● Instrumental Music</li> <li>● Vocal Music</li> <li>● Photography</li> <li>● Graphic Design</li> <li>● Drawing I</li> <li>● Ceramics</li> <li>● Two Dimensional Art</li> <li>● Three Dimensional Art</li> <li>● Fashion Design</li> <li>● Interior Design</li> <li>● Microsoft Office I &amp; Keyboarding*</li> <li>● Electricity</li> <li>● Woodworking I</li> <li>● Employability Skills*</li> <li>● Internship</li> </ul>	Recommended Core Courses <ul style="list-style-type: none"> <li>● Composition I*</li> <li>● Creative Writing I</li> <li>● Drawing II</li> <li>● Art Portfolio- Technology</li> <li>● Art Portfolio- Traditional</li> <li>● Advanced Fashion Design</li> <li>● Microsoft Office II and Information Computing*</li> <li>● Intro to Business</li> <li>● Principles of Management</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>	Recommended Core Courses <ul style="list-style-type: none"> <li>● Composition II*</li> <li>● Creative Writing II</li> <li>● Introduction to Literature*</li> <li>● Music Theory</li> <li>● FCS Advanced Studies- Fashion</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>

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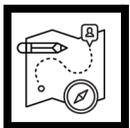


# HOSPITALITY, EVENTS, & TOURISM

The Hospitality, Events, & Tourism Career Cluster focuses on the services and experiences related to food and beverage, lodging, travel, events, and conferences. This Cluster focuses on delivering quality customer service, memorable experiences, and seamless logistics to cater to the needs and preferences of guests, tourists, and event participants.

Sub-clusters include:

- Accommodations
  - Support, operate, and manage businesses and services related to temporary lodging (hotels, motels, resorts, short-term rentals, and bed-and-breakfast establishments), by providing a comfortable and safe stay
  - Utilizes property management systems, online booking platforms, mobile-friendly services, and personalized guest experiences
- Conference & Events
  - Organize conventions, trade shows, corporate, political, and personal events while generating positive economic impact to communities
  - Focus on logistics, vendor coordination, budgets, attendee management, marketing, and risk management
  - Utilize organization, creativity, and interpersonal skills
- Culinary & Food Services
  - Serve, operate, and manage establishments involved in preparation and serving food and drinks
  - Provide exceptional culinary experiences and deliver high-quality customer service
  - Implement food preparation, beverage specializations, restaurant management, operations support, and health and safety
- Travel & Leisure
  - Organize & execute travel, entertainment, and recreational activities



## CHART YOUR COURSES

The following high school courses can help prepare you for success in this field after high school. Start charting your courses in your 4-year plan based on your post-secondary plans.

CAREER TRAINING	2-YEAR DEGREE	4-YEAR DEGREE +
Recommended Core Courses <ul style="list-style-type: none"> <li>● Photography</li> <li>● Graphic Design</li> <li>● Introduction to Business</li> <li>● Microsoft Office I &amp; Keyboarding*</li> <li>● Principles of Management</li> <li>● Sports &amp; Entertainment Marketing</li> <li>● Introduction to Accounting I</li> <li>● Beginning Foods</li> <li>● Interior Design</li> <li>● Spanish I</li> <li>● Spanish II</li> <li>● Character Leadership &amp; Development</li> <li>● Employability Skills*</li> <li>● Internship</li> </ul>	Recommended Core Courses <ul style="list-style-type: none"> <li>● Microsoft Office II &amp; Information Computing*</li> <li>● Advanced Foods</li> <li>● FCS Advanced Studies- Foods</li> <li>● Spanish III</li> <li>● Public Speaking*</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>	Recommended Core Courses <ul style="list-style-type: none"> <li>● Spanish IV</li> <li>● Spanish Culture &amp; Conversations</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>

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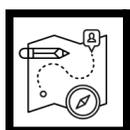


# FINANCIAL SERVICES

The Financial Services Career Cluster focuses on managing and advising financial transactions, including banking, lending, corporate finance, debt management, accounting, insurance, and real estate. This Cluster contributes to economic stability and growth by supporting the financial health of individuals and organizations.

Sub-clusters include:

- Accounting
  - Manage financial records for individuals and businesses
  - Advise individual and family financial planning and debt management (savings, investments, and retirement planning)
  - Ensure financial accuracy and compliance
- Banking & Credit
  - Manage money, loans, microlending, and commercial and consumer credit across banks, credit unions, mortgage brokers, and finance companies
  - Comply with financial regulations
- Financial Strategy & Investments
  - Focus on acquisition of investment offerings (stocks, bonds, fixed-income products, pension plans, emerging digital assets and other resources)
  - Encompass tactics for small business fundraising and financing via microlending and operational scaling
  - Adhere to legal and ethical standards
- Insurance
  - Offer products including life, health, and property insurance and investigate and process claims
  - Apply math and statistics to predict future events and design viable insurance policies
- Real Estate
  - Focus on buying, selling, leasing, and management of residential, commercial, and industrial properties



# CHART YOUR COURSES

The following high school courses can help prepare you for success in this field after high school. Start charting your courses in your 4-year plan based on your post-secondary plans.

CAREER TRAINING	2-YEAR DEGREE	4-YEAR DEGREE +
Recommended Core Courses <ul style="list-style-type: none"> <li>● Introduction to Business</li> <li>● Microsoft Office &amp; Keyboarding*</li> <li>● Intro to Accounting*</li> <li>● Agriculture Business</li> <li>● Principles of Management</li> <li>● Computer Science Principles</li> <li>● Character Leadership &amp; Development</li> <li>● Employability Skills*</li> <li>● Internship</li> </ul>	Recommended Core Courses <ul style="list-style-type: none"> <li>● Microsoft Office II &amp; Information Computing*</li> <li>● Public Speaking*</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>	Recommended Core Courses <ul style="list-style-type: none"> <li>● Statistics</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>

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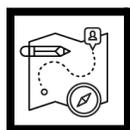


## EDUCATION

The Education Career Cluster focuses on fostering learning from early childhood to adulthood, including teaching, instructional design, counseling services, community engagement, learner support, and educator training. This Cluster emphasizes quality education standards and lifelong learning, preparing individuals for success through all life stages by nurturing knowledge, skills, and critical thinking and encouraging personal and societal growth in a constantly evolving world.

Sub-clusters include:

- Early Childhood Development
  - Nurture the holistic growth of children birth to 8 years old
  - Provide education, care, and early intervention to children
  - Foster physical, cognitive, emotional, and social development
- Education Administration & Leadership
  - Manage and lead educational institutions, develop policies, curate and organize knowledge, lead teams and conduct research to improve education
  - Ensure effective operation of education settings
  - Promote continuous improvement through research and innovation
- Learner Support & Community Engagement
  - Involves academic advising, library sciences, student health and wellness counseling, special education support, student life services in higher education, coaching, and career guidance within the school setting
  - Involve families, industry, and local resources for opportunities for family support programs, work-based learning, and apprenticeships
- Teaching, Training, and Facilitation
  - Teach and design instruction for diverse educational levels from K-12 grade to adult learning
  - Integrate educational technology and emerging teaching methods into curriculum development and delivery
  - Provide professional development and training for educators
  - Promote lifelong learning in various settings (schools, colleges, corporate environments, and community organizations)



## CHART YOUR COURSES

The following high school courses can help prepare you for success in this field after high school. Start charting your courses in your 4-year plan based on your post-secondary plans.

CAREER TRAINING	2-YEAR DEGREE	4-YEAR DEGREE +
Recommended Courses <ul style="list-style-type: none"> <li>● Child Development</li> <li>● Character Development and Leadership</li> <li>● Social Issues</li> <li>● Microsoft Office &amp; Keyboarding*</li> <li>● Employability Skills*</li> <li>● Internship</li> </ul>	Recommended Courses <ul style="list-style-type: none"> <li>● Composition I*</li> <li>● Creative Writing I</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>	Recommended Courses <ul style="list-style-type: none"> <li>● Public Speaking*</li> <li>● Intro to Literature*</li> <li>● Composition II*</li> <li>● Creative Writing II</li> <li>● Spanish I</li> <li>● Spanish II</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>

\*Denotes College Credit

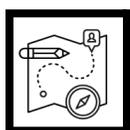


# HEALTHCARE & HUMAN SERVICES

The Healthcare & Human Services Career Cluster focuses on promoting whole health in individuals and communities through a diverse array of services. The Cluster emphasizes addressing social determinants of health and leveraging health data and science. Careers in this area aim to enhance the overall health and resilience of individuals, families, and communities.

Sub-clusters include:

- Behavioral & Mental Health
  - Dedicated to mental and emotional well-being, including counseling, psychology, and psychiatric services
  - Advocate for mental health awareness and policy changes
- Biotechnology Research & Development
  - Develop new treatments, pharmaceuticals, devices, and innovative medical technologies to advance healthcare
- Community & Social Services
  - Assist in social inequities and provide services for addressing the need for foods, income, adequate child care, and access to education, while collaborating with various sectors
- Health Data & Administration
  - Focused on management, analysis, and administration of health information and data
  - Utilize health informatics, medical records, and healthcare administration
  - Dedicated to enhancing healthcare delivery through effective technology and data management
- Personal Services
  - Provide in-home and personal care support & understand health and safety practices
  - Offer esthetics and wellness services (e.g., hairdressing, nail care, skincare, fitness, massage therapy)
- Physical Health
  - Provide medical care, conduct diagnosis, offer therapeutic services, administer pharmaceuticals, support nutrition and dental health, from birth to death



## CHART YOUR COURSES

The following high school courses can help prepare you for success in this field after high school. Start charting your courses in your 4-year plan based on your post-secondary plans.

CAREER TRAINING	2-YEAR DEGREE	4-YEAR DEGREE +
Recommended Core Courses <ul style="list-style-type: none"> <li>● Chemistry</li> <li>● Anatomy &amp; Physiology</li> <li>● Microsoft Office I &amp; Keyboarding*</li> <li>● Health II</li> <li>● Introduction to Accounting I</li> <li>● Child Development</li> <li>● Independent Living</li> <li>● Spanish I</li> <li>● Spanish II</li> <li>● Character Development and Leadership</li> <li>● Drawing I</li> <li>● Employability Skills*</li> <li>● Internship</li> </ul>	Recommended Core Courses <ul style="list-style-type: none"> <li>● Microsoft Office II &amp; Information Computing*</li> <li>● Spanish III</li> <li>● Public Speaking*</li> <li>● Drawing II</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>	Recommended Core Courses <ul style="list-style-type: none"> <li>● Spanish IV</li> <li>● Spanish Culture &amp; Conversations</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>

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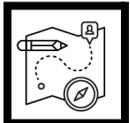


# PUBLIC SERVICE & SAFETY

The Public Service & Safety Career Cluster focuses on roles in local, state, and federal government; legal and justice systems; security; and military operations, all aimed at promoting civic responsibility and ensuring the well-being, security, functionality, and resilience of communities, states, and countries.

Sub-clusters include:

- Emergency Response
  - Focus on strategic actions taken to prepare for and manage crises and emergencies (e.g., natural disasters, fires, accidents, other urgent situations)
- Judicial Systems
  - Maintain the legal system, uphold justice fairness, and the rule of law for individuals and organizations
- Local, State, and Federal Services
  - Ensure democratic processes, access to public services, governance, public administration, public policy, urban and regional planning, and community development
  - Promote the well-being, stability, and sustainable growth of communities and their residences
- Military and National Security
  - Safeguard countries through defense operations, strategic planning, intelligence gathering, and technological resilience
  - Prevent threats and maintain national stability and preparedness
  - Ensure citizens' safety while serving in the military, government, or private sector
- Public Safety
  - Safeguard communities through law enforcement, corrections, and both public and private security
  - Provide comprehensive protective services
  - Prevent crime, inform and educate citizens, and ensure public order, contributing to the overall safety and well-being of society



# CHART YOUR COURSES

The following high school courses can help prepare you for success in this field after high school. Start charting your courses in your 4-year plan based on your post-secondary plans.

CAREER TRAINING	2-YEAR DEGREE	4-YEAR DEGREE +
Recommended Core Courses <ul style="list-style-type: none"> <li>● Street Law</li> <li>● Character Development &amp; Leadership</li> <li>● Social Issues</li> <li>● Microsoft Office I &amp; Keyboarding*</li> <li>● Chemistry</li> <li>● Spanish I</li> <li>● Spanish II</li> <li>● Employability Skills*</li> <li>● Internship</li> </ul>	Recommended Core Courses <ul style="list-style-type: none"> <li>● Microsoft Office II &amp; Information Computing*</li> <li>● Computer Science Principles</li> <li>● Spanish III</li> <li>● Composition I*</li> <li>● Public Speaking*</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>	Recommended Core Courses <ul style="list-style-type: none"> <li>● Spanish IV</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>

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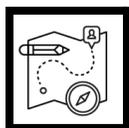


# AGRICULTURE

The Agriculture Career Cluster focuses on scientific advancement of agriscience, cultivation, processing, and distribution of agricultural products, employing advanced technologies and sustainable practices to optimize global food systems. This Cluster supports plant-based and animal-based industries including regenerative agriculture, sustainable logging, and fisheries.

Sub-clusters include:

- Agribusiness
  - Economic aspects of agriculture encompass farm management, finance, supply chain and other essential functions to agricultural profitability relating to farming.
- Agricultural Technology & Automation
  - Design, operate, repair, and maintain agricultural equipment and systems including precision agriculture, urban agriculture and vertical farming to improve productivity and sustainability.
- Animal Systems
  - Promotes animal care including genetics, nutrition, welfare, production and management strategies, and raw products produced
- Food Science & Processing
  - Work with fruit, vegetables, grain and meat processing to ensure safe products for human consumption
- Plant Systems
  - Study and manage plant growth, soil health, and pests using advanced production practices
- Water Systems
  - Manage and use water resources in agricultural settings (e.g., precision irrigation, aquaculture, and fisheries) to maximize water efficiency and productivity in farming operations



## CHART YOUR COURSES

The following high school courses can help prepare you for success in this field after high school. Start charting your courses in your 4-year plan based on your post-secondary plans.

CAREER TRAINING	2-YEAR DEGREE	4-YEAR DEGREE +
Recommended Core Courses <ul style="list-style-type: none"> <li>● Introduction to Ag Science</li> <li>● Crop Production</li> <li>● Animal Science I</li> <li>● Agriculture Business</li> <li>● Horticulture I</li> <li>● Introduction to Business</li> <li>● Microsoft Office I &amp; Keyboarding*</li> <li>● Principles of Management</li> <li>● Beginning Foods</li> <li>● Advanced Foods</li> <li>● FCS Advanced Studies- Foods</li> <li>● Small Gas Engines</li> <li>● Construction Trades</li> <li>● Employability Skills*</li> <li>● Internship</li> </ul>	Recommended Core Courses <ul style="list-style-type: none"> <li>● Introduction to Ag Leadership &amp; FFA</li> <li>● Veterinary Science I</li> <li>● Principles of Agronomy*</li> <li>● Animal Science II</li> <li>● Animal Science III*</li> <li>● Horticulture II: Greenhouse Management</li> <li>● Advanced Ag Leadership</li> <li>● Microsoft Office II &amp; Information Computing*</li> <li>● Computer Science Principles</li> <li>● Sports and Entertainment Marketing</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>	Recommended Core Courses <ul style="list-style-type: none"> <li>● Ag Biotechnology</li> <li>● Agriscience Applications</li> <li>● Chemistry</li> <li>● Statistics</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>

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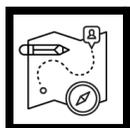


# ENERGY & NATURAL RESOURCES

The Energy & Natural Resources Career Cluster focuses on traditional and renewable fuel production, power generation and energy conversion, utilities, environmental preservation, ecological research, and resource extraction. These industries focus on efficient and responsible resource management, including conservation, transmission, distribution and storage, to minimize environmental impacts and meet global energy needs. Careers in this Cluster are dedicated to creating a sustainable future, innovating cleaner energy solutions, and preserving our planet’s natural resources for generations to come.

Sub-clusters include:

- Clean and Alternative Energy
  - Develop and implement technologies that generate energy, develop infrastructure using clean energy sources and manage waste, carbon and mineral reusability.
- Conservation and Land Management
  - Protect and manage natural resources and landscapes including local, state and natural parks, forests and waterways, and wildlife and marine life.
- Ecological Research and Development
  - Study and research ecological, geological, electrical, chemical, nuclear, biological , environmental engineering, and other sciences to relate to energy production, sustainability, and the management of natural resources.
- Environmental Protection
  - Develop and enforce policies to protect all ecosystems, natural habits and biodiversity from all natural disasters, pollution, and degradation to solve environmental problems and improve climate resilience
- Resource Extraction
  - Focused on efficient extraction of natural materials including exploring, drilling, mineral processing quarries and petroleum
- Utilities
  - Focus on operations, maintenance, and security of systems to guarantee uninterrupted access to vital resources, energy efficiency, energy sources and other essential services.



## CHART YOUR COURSES

The following high school courses can help prepare you for success in this field after high school. Start charting your courses in your 4-year plan based on your post-secondary plans.

CAREER TRAINING	2-YEAR DEGREE	4-YEAR DEGREE +
Recommended Core Courses <ul style="list-style-type: none"> <li>● Introduction to Ag Sciences</li> <li>● Agricultural Business</li> <li>● Ag Metal Fabrication</li> <li>● Microsoft Office I &amp; Keyboarding*</li> <li>● Employability Skills*</li> <li>● Internship</li> </ul>	Recommended Core Courses <ul style="list-style-type: none"> <li>● Natural Resources</li> <li>● Ag Biotechnology</li> <li>● Microsoft Office II &amp; Information Computing*</li> <li>● Computer Science Principles</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>	Recommended Core Courses <ul style="list-style-type: none"> <li>● Agriscience Applications</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>

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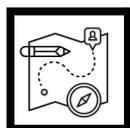


# DIGITAL TECHNOLOGY

The Digital Technology Career Cluster focuses on developing digital systems for communication and data storage using critical technologies such as artificial intelligence (AI), data analytics, and cybersecurity. This Cluster builds skills necessary for all careers to navigate and lead in the constantly evolving tech landscape and drives innovation across all industries to tackle complex challenges and opportunities in communities and economies.

Sub-clusters include:

- Data Science & Artificial Intelligence
  - Apply critical thinking to work on innovative solutions to interpret vast amounts of information, automate decisionmaking processes, develop intelligent algorithms that improve with experience, and enhance communication between humans and machines
  - Requires attention to ethical standards
- Information Technology (IT) Support & Services
  - Provide setup, assistance, maintenance, and problem-solving solutions for software, hardware, and other technology-related issues
  - Ensure smooth and efficient operation of communication and data systems for individuals and organizations
- Network Systems & Cybersecurity
  - Establish and manage communication networks and protect against cyber threats
- Software Solutions
  - Develop and maintain software solutions (computer science and encompassing programming, application development, and front-end / back-end software development)
  - Create the underlying code and system that power applications, design user interfaces for optimal user experience, and build server-side technologies that process data behind the scenes
- Unmanned Vehicle Technology
  - Develop, operate, and use of unmanned vehicles (aerial vehicles, drones, autonomous ground vehicles)
  - Apply aerial surveying, precision farming, search and rescue, delivery services, resource management, hazardous environment remediation, and infrastructure inspection
- Web & Cloud
  - Create and manage websites and web applications, including front-end / back-end development and maintenance, and overseeing cloud services and infrastructure



# CHART YOUR COURSES

The following high school courses can help prepare you for success in this field after high school. Start charting your courses in your 4-year plan based on your post-secondary plans.

CAREER TRAINING	2-YEAR DEGREE	4-YEAR DEGREE +
Recommended Core Courses <ul style="list-style-type: none"> <li>● Microsoft Office I &amp; Keyboarding*</li> <li>● Computer Science Principles*</li> <li>● Engineering</li> <li>● CAD Exploration</li> <li>● Employability Skills*</li> <li>● Internship</li> </ul>	Recommended Core Courses <ul style="list-style-type: none"> <li>● Microsoft Office II &amp; Information Computing*</li> <li>● Drafting I</li> <li>● Electricity</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>	Recommended Core Courses <ul style="list-style-type: none"> <li>● Drafting II</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>

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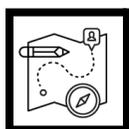


# MARKETING & SALES

The Marketing & Sales Career Cluster focuses on promoting products, understanding consumer needs, engaging with communities, and driving sales. It integrates digital marketing, data analysis, brand promotion, customer relationship management, strategic communications, human-centered design, and retail strategies to build strong customer connections and support business growth. This Cluster is essential in all industries for creating value, effectively reaching and engaging target audiences, and achieving commercial success in a competitive marketplace.

Sub-clusters include:

- Market Research, Analytics, & Ethics
  - Gather, analyze, and interpret data and consumer behaviors to inform strategic decisions and enhance business relationships
  - Use data analysis to understand market trends, competition, and customer interactions
  - Maintain awareness of ethical advertising practices
- Marketing & Advertising
  - Use digital technologies and traditional strategies to promote products and services to engage customers and maintain brand identity
- Retail & Customer Experience
  - Focus on retail operations and the delivery of outstanding customer experiences
  - Incorporate physical and online store management, visual merchandising, inventory strategies, and customer services enhancements
- Strategic Sales
  - Help businesses grow and achieve goals
  - Set targets, refine sales processes, lead teams, and prioritize excellent customer service in direct sales



# CHART YOUR COURSES

The following high school courses can help prepare you for success in this field after high school. Start charting your courses in your 4-year plan based on your post-secondary plans.

CAREER TRAINING	2-YEAR DEGREE	4-YEAR DEGREE +
<p>Recommended Core Courses</p> <ul style="list-style-type: none"> <li>● Introduction to Business</li> <li>● Microsoft Office I &amp; Keyboarding*</li> <li>● Principles of Management</li> <li>● Sports &amp; Entertainment Marketing</li> <li>● Agriculture Business</li> <li>● Photography</li> <li>● Beginning Foods</li> <li>● Advanced Foods</li> <li>● FCS Advanced Studies- Foods</li> <li>● Character Development &amp; Leadership</li> <li>● Employability Skills*</li> <li>● Internship</li> </ul>	<p>Recommended Core Courses</p> <ul style="list-style-type: none"> <li>● Microsoft Office II &amp; Information Computing*</li> <li>● Public Speaking*</li> <li>● Graphic Design</li> <li>● Creative Writing I</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>	<p>Recommended Core Courses</p> <ul style="list-style-type: none"> <li>● Statistics</li> <li>● Creative Writing II</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>

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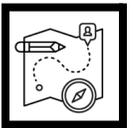


# MANAGEMENT & ENTREPRENEURSHIP

The Management & Entrepreneurship Career Cluster focuses on skills and occupations that are essential across all industries, including business administration, operations optimization, strategic planning, workforce management, and entrepreneurship. By emphasizing entrepreneurship, this Cluster supports the creation of new ventures, driving economic growth and innovation and making it a cornerstone of modern economies.

Sub-clusters include:

- Business Information Management
  - Gather, analyze, and interpret data to distill and recognize patterns, inform decisionmaking and optimize performance to streamline processes, improve operational efficiency, support strategic planning, and drive business growth in an increasingly global and information-centered environment
- Entrepreneurship & Small Business
  - Identify opportunities, develop strategies, and secure financing to foster innovation to initiate and manage businesses
- Leadership & Operations
  - Focus on strategic planning, resource forecasting and allocation, engage with boards, shareholders, and other constituents, administrate support, and management consulting
- Project Management
  - Focus on planning, leading, initiating, executing, controlling, and closing out projects to achieve specific goals within a set timeline and budget
- Regulation
  - Develop and enforce policies, conduct inspections and audits, and implement measures to protect worker safety, public health, and the environment



## CHART YOUR COURSES

The following high school courses can help prepare you for success in this field after high school. Start charting your courses in your 4-year plan based on your post-secondary plans.

CAREER TRAINING	2-YEAR DEGREE	4-YEAR DEGREE +
Recommended Core Courses <ul style="list-style-type: none"> <li>● Animal Science I</li> <li>● Animal Science II</li> <li>● Crop Production</li> <li>● Agriculture Business</li> <li>● Horticulture I</li> <li>● Horticulture II</li> <li>● Agriculture Leadership</li> <li>● Introduction to Business</li> <li>● Principles of Management</li> <li>● Microsoft Office I &amp; Keyboarding*</li> <li>● Principles of Management</li> <li>● Character Development &amp; Leadership</li> <li>● Employability Skills*</li> <li>● Internship</li> </ul>	Recommended Core Courses <ul style="list-style-type: none"> <li>● Animal Science III</li> <li>● Microsoft Office II &amp; Information Computing*</li> <li>● Introduction to Accounting</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>	Recommended Core Courses <ul style="list-style-type: none"> <li>● Statistics</li> <li>● <a href="#">NICC Courses</a></li> <li>● <a href="#">Kirkwood Academy</a></li> </ul>

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