

Newell-Fonda Community School District  
**High School**  
2025-2026 Course Guide



NEWELL-FONDA  
**COMMUNITY**  
SCHOOL DISTRICT  
HOME OF THE MUSTANGS

## Welcome to the Newell-Fonda Community School District

Newell-Fonda Community School District serves approximately 500 learners and has outstanding support from the communities of Fonda, Newell, and Varina. The staff at Newell-Fonda is committed to continuous improvement. Newell-Fonda offers a rich tradition of excellence in extra-curricular offerings including jazz band, speech, choir, FCCLA, Quiz Bowl, FFA and many athletic programs. Our staff is dedicated to the idea that no student should ever have to choose between activities and works to make all experiences these activities offer available to every student.

*Preparing all students to become  
successful, well-educated  
contributors to society.*



**NEWELL-FONDA  
COMMUNITY  
SCHOOL DISTRICT**

Newell-Fonda High School  
205 Clark Street  
PO Box 297  
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Phone: (712) 272-3325  
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#### ADMINISTRATORS

Dick Jungers..... Superintendent  
Christopher Feldhans .....Principal  
Jordan Myers..... Activities Director

#### GUIDANCE

Holly Lockrem..... 7-12 School Counselor

Website: [www.nfmustangs.org](http://www.nfmustangs.org)  
Facebook: Newell-Fonda Community School District  
X: @NFMustangs  
Instagram: @nfmustangs

### Equity Statement

It is the policy of the Newell-Fonda Community School not to discriminate on the basis of age, color, creed, national origin, race, religion, marital status, sex, sexual orientation, gender identity, physical attributes, physical or mental ability or disability, ancestry, political party preference, political belief, socioeconomic status, or familial status in its education programs, activities, or employment policies as required by Title VI and VII of the 1964 Civil Rights Act, Title IX of the 1972 Education Amendments, and Section 504 of the Federal Rehabilitation Act of 1973.

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## For Students and Parents

This handbook was created to provide each student at Newell-Fonda High School as much information as possible about our course offerings and graduation requirements.

In order to take the high school classes that will be most beneficial to you and your future goals, we have included such things as course descriptions, course requirements, course length, grade level availability, and course credit.

It is our goal to avoid as many scheduling conflicts as possible so that each student may be allowed to take the courses that he/she selects. Keep in mind, however, that occasionally you may have to choose between electives to resolve a conflict.

## Registration Guidelines

We will follow the guidelines listed below for registration for each school year.

The counselor will meet with students in the spring to review any updates to course offerings for the next academic year. The updated course book will be available on the school website under the High School tab. Students will request courses using their course plan on Infinite Campus. Parents can review and approve their student's Academic Plan on the parent portal. Once course requests are submitted work will begin on creating a master schedule and resolving student course conflicts.

Students are advised to consider their course selections carefully so they are prepared for the career and college path they choose. The counselor, principal, teachers, parents, and former students are great resources.

## College Entrance Requirements

Students are strongly urged to work closely with their school counselor regarding college entrance requirements and completing their FOUR YEAR PLAN. In order to be best prepared for the future, students need to get specific information from a variety of schools and/or post high school programs. Not all courses listed in the Program of Studies meet college and/or NCAA admission requirements.

## Academic Eligibility

In order to participate in any high school performance and/or be eligible to participate in a sport or competitive activity, a student must have passed all courses the semester prior to participation, and must be enrolled in six courses plus PE. A special education student who is making adequate progress in meeting goals and objectives on the individualized education plan, as assessed by the teacher, will be academically eligible.

## Alternative High School

Students at risk of withdrawing from high school or those far behind in credits may be considered for a referral to the PAC Regional Learning Center, the district's alternative high school. The alternative high school classes may not be used to accelerate the date of graduation.

## Early Graduation

Students may graduate prior to the completion of grade twelve (12) if the course work required for graduation under board policy "Graduation Requirements" has been fulfilled. Students who graduate early may participate in May commencement exercises if they choose to do so. In such cases, the student must have the approval of the board and a recommendation by the superintendent and the principal.

## Credit Recovery

If students fall behind in credits, it may become necessary to recover credits through Newell-Fonda's online credit recovery program, Edgenuity. Edgenuity credit recovery may be done during the regular school year or in a summer school setting. Decisions related to students needing to credit recover will be made on a case by case basis, by administration and the school counselor.

## NCAA & NAIA Eligibility

Student-athletes interested in Division I or II collegiate athletics should go online to [www.eligibilitycenter.org](http://www.eligibilitycenter.org) for a copy of the booklet *NCAA Guidance for the College Bound Student Athlete*. This booklet lists all academic, athletic and scholarship requirements and allows student athletes to set up accounts with the NCAA for registration purposes.

Student-athletes interested in playing NAIA sports should go online to [www.playNAIA.org](http://www.playNAIA.org) for information about NAIA academic and athletic requirements and registration. Students may see their school counselor for additional assistance.

## FAFSA Information

The FAFSA (Free Application for Federal Student Aid) is a free federally-required form for students seeking financial aid for college. This form should be filed after October 1 and prior to June 30th each year. The FAFSA can be filed online at [www.fafsa.gov](http://www.fafsa.gov) there is no charge. Students and families may receive assistance with the FAFSA and Financial Aid process from their counselors.

## Fee Waiver Policy

Students whose families meet the income guidelines for free and reduced lunch, the Family Investment Program (FIP), Supplemental Social Security Income (SSI), transportation assistance under open enrollment, or who are in foster care or are legally defined as homeless are eligible to have their student fees waived or partially waived. Forms are available in the Main Office and is posted on our homepage under the Parent Tab - Enrollment.

## Talented and Gifted

The high school (9-12) Talented and Gifted program consists of college level classes that are available to all TAG students grades 9-12. We also have a wide variety of elective classes that are also available to TAG students to enrich their learning in many different areas. Enrichment activities and independent study opportunities are available to TAG high school students upon request. All high school TAG students receive this information in a meeting during course registration periods (August, January, and April).

## Special Education

Special programs are offered to meet the needs of students with Individual Education Plans and include the full continuum of supports and services. Participation requires referral and staffing procedures. Specific supports and service are determined with input from the parents, student, school counselor, administration, and AEA consultants.

## Senior Year Plus (SYP)

Senior Year Plus (SYP) serves as an umbrella for a variety of programs including Postsecondary Enrollment Options (PSEO), concurrent enrollment (CE), Advanced Placement (AP®), Career Academies, Regional Academies, Summer College Credit Program (SCCP) and Project Lead the Way® (PLTW). Depending on the program, students may be enrolled in a college credit course or a high school course for which the postsecondary institution may award credit or advanced standing upon matriculation. The instructors may be a college or university instructor or a high school instructor serving as a community college adjunct faculty member. The courses may be taken on a college campus, at a high school, online, or through distance education. Students must be academically prepared for higher education. If the student is on track to graduate, has met the eligibility requirements of the postsecondary institution and has met proficiency requirements, the eligible student may enroll in the college course.

The grades earned through SYP will appear on the student's high school transcript and will be figured into his/her high school grade point average. Failing a SYP class will affect academic eligibility for athletics. The grade will also appear on the college transcript. It is the responsibility of the student to request a college transcript through the college.

## Education Equity Policy

It is the policy of the Newell-Fonda Community School not to discriminate on the basis of age, color, creed, national origin, race, religion, marital status, sex, sexual orientation, gender identity, physical or mental ability or disability, socioeconomic status in its education programs, activities, or employment policies as required by Title VI and VII of the 1964 Civil Rights Act, Title IX of the 1972 Education Amendments, and Section 504 of the Federal Rehabilitation Act of 1973.

It is also the policy of this district that the curriculum content and instructional materials utilized reflect the cultural and racial diversity present in the United States and the variety of careers, roles, and lifestyles open to women as well as men in our society. One of the objectives of the total curriculum and teaching strategies is to reduce stereotyping and to eliminate bias on the basis of age,

color, creed, national origin, race, religion, marital status, sex, sexual orientation, gender identity, physical or mental ability or disability, socioeconomic status. The curriculum should foster respect and appreciation for the cultural diversity found in our country and an awareness of the rights, duties, and responsibilities of each individual as a member of a pluralistic society.

Inquiries regarding compliance with Title IX, Title VI, or Section 504 may be directed to, Christopher Feldhans, Newell-Fonda High School Principal, PO Box, 297, 205 Clark Street, Newell, Iowa, Phone (712) 272-3325 or to the Office for Civil Rights, US Department of Education, Citigroup Center, 500 W. Madison Street, Suite 1475, Chicago, IL 60661-7204.

## Commencement

Students, who have met the requirements for graduation will be allowed to participate in the commencement proceedings, provided they will abide by the proceedings organized by the administration. It shall be the responsibility of the building principal to solicit input from each graduating class regarding the proceedings for their commencement.

Failure of a student to participate in commencement will not be reason for withholding the student's final progress report or diploma certifying the student's completion of high school.

# Graduation Requirements

Students must have successfully completed the courses required by the board for graduation. Students must successfully complete each grade level, grade one (1) through twelve (12), and complete all the required courses of study prior to graduation as determined by the State Department of Education and the board.

## NFCSD Diploma Requirements

### 49 Credits

Subject Area	Credits
English/Language Arts	8 Credits
Social Studies	6 Credits
Science	6 Credits
Mathematics	6 Credits
Physical Education	4 Credits
CTE Elective (Freshman Year)	1 Credit
Financial Literacy	1 Credit
Electives	17 Credits
<b>Total</b>	<b>49 Credits</b>

The required courses of study will be reviewed by the board annually. A student will not be allowed to graduate with fewer than 49 credits without the approval of the board. The board shall have complete discretion to determine extraordinary circumstances.

Your student's Academic Plan can be accessed in Infinite Campus under "Graduation Status".

# Agricultural Science Education

## Introduction Agriculture, Food, & Natural Resources

This course is for beginning agricultural education students. Students will be introduced to the world of agriculture. Throughout this course students will take part in activities to improve their employability skills and explore career and post-secondary opportunities in each area of the agriculture industry. Exciting “hands-on” activities, projects, and problems are key components to this course. Student’s experiences will involve the sciences of agriculture, plants, animals, and natural resources. Students will learn to solve problems, conduct research, analyze data, work in teams, and take responsibility for their work, actions, and learning. In addition, students will link classroom activities to Supervised Agricultural Experiences and FFA components that are important for the development of an agriculture education student. All students enrolled in one semester of agriculture education are able to be FFA members. Recommended for any student interested in FFA.

**Grade Level:** 9-12  
**Category:** Elective  
**Prerequisite:** None  
**Length/Credits:** Semester/Year- 1 or 2 Credits  
**Dual Credit:** No

## IC Introduction to Agriculture Business (26-27)

This course focuses on business and economic principles applied to decision making and problem solving in the management of a farm business. Some of the topics include cash flow, partial, enterprise and whole farm budgeting. Information systems will be used for farm accounting, analysis, and control. Obtaining and managing land, capital, and labor resources will also be covered in this course. The Farm Game may be used to demonstrate record keeping and decision making. Other topics include risk management, agriculture, government policy, and foreign trade. All students are encouraged to join FFA and be involved in a Supervised Agriculture Experience project.

**Grade Level:** 11-12  
**Category:** Elective

**Prerequisite:** None  
**Length/Credits:** Semester - 1 Credit  
**Dual Credit:** ICCG AGB 133 - 3 Credits

## Animal Science

This course informs students about the care and management of domestic and farm animals. Within this course we will cover basic animal nutrition, health, behavior, selection, reproduction, anatomy and physiology, facilities, product processing, and marketing. Students will study particular species such as swine, cattle, horses, fowl, sheep, and so on. Students will also learn how to care for and maintain livestock as a more inclusive study. Depending on the availability of resources, students may also have the opportunity to investigate real specimens and raise their own poultry. All students are encouraged to join FFA and be involved in a Supervised Agriculture Experience project.

**Grade Level:** 9-12  
**Category:** Elective  
**Prerequisite:** None  
**Length/Credits:** Semester - 1 Credit  
**Dual Credit:** No

## Advanced Animal Science

This course provides information, activities, and skills in the areas of scientific method, classification systems, production management, anatomy, physiology, nutrition, and genetics. The course will be an in-depth study of beef cattle, dairy cattle, sheep, swine, goats, and horses. The areas covered will be reinforced by hands-on experience through student projects.

**Grade Level:** 10-12  
**Category:** Elective  
**Prerequisite:** Animal Science  
**Length/Credits:** Semester - 1 Credit  
**Dual Credit:** No

## Veterinarian Science

This course is primarily anatomy with some physiology. The primary purpose of this course is to learn basic gross anatomy of animals. You are expected to be able to list at least one physiological function for each anatomical component you learn. Most of the species discussed in this course are food animals such

as swine, cattle, sheep and chickens. We will cover different systems such as circulatory, respiratory, reproduction, mammary, digestive, growth and development, and so on. This Veterinarian Science course will help prepare students who are interested in pursuing a degree in veterinary medicine. All students are encouraged to join FFA and be involved in a Supervised Agriculture Experience project.

**Grade Level:** 10-12  
**Category:** Elective  
**Prerequisite:** Animal Science  
**Length/Credits:** Semester - 1 Credit  
**Dual Credit:** No

## IC Survey of the Animal Science Industry (25-26)

This course explores issues impacting the United States and the International Animal Industry. The main emphasis of the course is on different breeds, basic management, and marketing of farm animals. The animals include beef and dairy cattle, companion animals, horses, poultry, sheep, swine, and their products. All students are encouraged to join FFA and be involved in a Supervised Agriculture Experience project. Offered 23-24

**Grade Level:** 11-12  
**Category:** Elective  
**Prerequisite:** Animal Science  
**Length/Credits:** Semester - 1 Credit  
**Dual Credit:** ICCG AGS 113 - 3 Credits

## Plant Science

Students will study the processes involved in plant growth, production and reproduction. The function of plant structures, as well as crop production, will be studied. We will explore genetic improvement of plants, plant diseases, and harvesting of crops. Students will also be able to identify a variety of crops, weeds, and seeds. As a part of this course, students will identify various agronomic practices. A main focus will be on soil science and natural resource management as it relates to the agriculture industry. \*This course meets the science requirement for graduation.

**Grade Level:** 10-12  
**Category:** Elective  
**Prerequisite:** Intro to Agriculture  
**Length/Credits:** Semester - 1 Credit

## Landscaping & Turfgrass Management

In this course, students will learn about plant structures and functions, soil management, basic plant growth, flower production, sod production, landscaping principles and careers in horticulture. Students will undertake a small landscaping project as a part of the class. The students will plan, budget, and implement their landscaping designs. All students are encouraged to join FFA and be involved in a Supervised Agriculture Experience project.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** Intro to AFNR

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Advanced Plant Science

This course will expose students to the art and science of growing plants, shrubs, trees, flowers, fruits, and vegetables. In doing so, they cover a wide variety of topics, including principles of plant science, greenhouse and nursery operations, soils and growing media mixtures, fruit and vegetable production, turf/ golf course management, interior and exterior plantscaping, irrigation systems, weed and pest control, and floral design.

**Grade Level:** 10-12

**Category:** Elective

**Prerequisite:** Plant Science

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## IC Principles of Crop Production (26-27)

The course is a study of principles of plant, soil, and climate relationships and their impact on crop production and animal food supply worldwide. Other topics covered are plant identification, anatomy and growth, as well as tillage and planting, pest control, harvesting and storage. All students are encouraged to join FFA and be involved in a Supervised Agriculture Experience project.

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** ICCA AGA 852 - 3 Credits

## IC Renewable Resources (25-26)

This course will present an overview of soil, water, plants, and animals as renewable natural resources in an ecosystem context. Concepts of integrated resource management, history and organization of resource management will also be introduced. Students will investigate conservation practices and make recommendations to a prospective producer on ways to make their operation more environmentally friendly.

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** ICCA AGA 390 - 3 Credits

## Agriculture Occupation Early Experience 1 & 2

This course provides students with the opportunity to gain work experience in an agriculture related career. Students will meet at the beginning and end of each semester as well as periodically throughout the course. During that time, they will complete resumes, cover letters, and job interviews for the agriculture related job of their choice. A record book system will be introduced to students for their use throughout the course to track their work experience. Lastly, students will set and achieve SMART goals as they pertain to their specific work experience. All students are encouraged to join FFA.

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Agriculture Leadership

The purpose of this course is to enhance leadership skills through personal development. Students will learn the fundamentals of communications and leadership in agriculture. We will focus on understanding leadership, communication skills, leading individuals and groups, managerial leadership, personal development, and transitioning to work skills. Students will learn Parliamentary Procedure. All students are encouraged to join FFA and be involved in a Supervised Agriculture Experience project.

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** Intro to ANFR

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Wildlife and Natural Resources

Wildlife and Natural Resources combines the fields of ecology and conservation. Students will learn and plan for the efficient use and preservation of land, water, wildlife, and forest. Within the general area of natural resource management, this course covers specific topics and uses such as hunting or fishing preserves, forest production and management, wildlife preservation and human outdoor recreation. Students will also examine the importance of natural resources in our lives and how to manage them for our benefit. All students are encouraged to join FFA and be involved in a Supervised Agriculture Experience project.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** Intro to Agriculture

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No



# Art

## Intro to Art

This course is a single semester course that lays the foundation for all other high school art courses. Beginning levels of creativity, drawing, painting, ceramics, sculpture, and digital work will be emphasized with the mindset of finding strengths and preferences in the area of visual arts.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Drawing and Painting 1 (2D Concepts)

This is a single semester course providing the opportunity to make a much deeper dive into the area of 2 dimensional mediums.

Drawing from life, drawing from imagination, and reference photo drawing will all be utilized during the first quarter before transitioning into color mediums. Dry mediums will be emphasized first, before moving on to wet mediums.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** Intro to Art

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Drawing and Painting 2 (2D Concepts)

This course is a continuation of the first semester prerequisite. Advanced dry and wet medium techniques will be explored while adding more creativity and individual style development.

**Grade Level:** 10-12

**Category:** Elective

**Prerequisite:** Drawing and Painting 1

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Ceramics and Sculpture 1 (3D Concepts)

This is a single semester course providing the opportunity to build skills in 3 dimensional mediums. Hand built ceramics, pottery wheel, and beginning level sculpture techniques will be the emphasis of this course.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** Intro to Art

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Ceramics and Sculpture 2 (3D Concepts)

This course is a continuation of the first semester prerequisite. Advanced techniques and mediums will be explored while adding more creativity and individual style development.

**Grade Level:** 10-12

**Category:** Elective

**Prerequisite:** Ceramics and Sculpture 1

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Commercial Art and Digital Mediums 1

This is a course designed to explore graphic design, image manipulation, digital painting, photography, animation, web design, social media exploration, and screen printing in addition to new technologies as they become accessible.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** Intro to Art

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Commercial Art and Digital Mediums 2

This course is a continuation of Commercial Art and Digital Mediums 1.

**Grade Level:** 10-12

**Category:** Elective

**Prerequisite:** Commercial Art and Digital Mediums 1

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Independent Art

Students applying for Independent Study must have a minimum of 5 semesters of HS Art to qualify. The application process includes a portfolio review, student built curriculum, along with an interview with art staff and/or administration/counselor before being accepted. Previous grades in the 5 completed Art courses are also considered in the application process. This course is intended to develop portfolio pieces with the intention of entering a post secondary Art program.

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** Intro to Art plus 4 other HS Art Credits

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

# Business Education

## Intro to Business

This course gives high school students a comprehensive understanding of fundamental business concepts and practices. Students will explore various aspects of the business world, including entrepreneurship, marketing, finance, management, and ethics. Whether you aspire to start your own business, pursue a career in the corporate world, or want to understand how businesses operate, this course will lay the foundation for success in the ever-changing business world.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Applied Business

This course is intended to be a hands-on learning experience designed to provide students with practical knowledge and skills in operating a school store. This course emphasizes the application of fundamental business concepts in a real-world setting, offering students the opportunity to gain firsthand experience in entrepreneurship, marketing, sales, inventory management, and customer service. Students will learn how to develop a business plan, set goals, create marketing strategies, manage finances, and analyze performance metrics. Students will also have the opportunity to explore various aspects of retail management, including merchandising, pricing strategies, and customer engagement techniques.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## IC Intro to Computers

This course gives high school students a comprehensive understanding of fundamental business concepts and practices. Students will explore various aspects of the business world, including entrepreneurship, marketing, finance, management, and ethics. Whether you aspire to start your own business, pursue a career in the corporate world, or want to understand how businesses operate, this course will lay the foundation for success in the ever-changing business world.

**Grade Level:** 10-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** ICCC CSC 110 - 3 Credits

## Entrepreneurship

In this course, students will embark on a journey to discover what it means to be an entrepreneur – from dreaming up big ideas to turning them into reality! Through fun activities, real-life stories, and hands-on projects, you'll learn how to spot opportunities, think creatively, and make your mark in the business world.

**Grade Level:** 10-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Everyday Personal and Business Law

Students will relate the law to their current lives and understand its implications in their futures in this course while studying civil, criminal, contract, and personal law. Students will become more aware of their legal rights and responsibilities as minors and as adults. This one-semester course emphasizes practical knowledge and application of law in our daily lives. Topics include court procedures, juvenile law, crimes and torts, contracts, employment law, family law, product law, insurance law, consumer law, and wills.

**Grade Level:** 10-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Multimedia Productions 1

This course explores the many applications of technology to create multimedia productions. Students will use technology as a tool to facilitate critical thinking, organize information, and demonstrate learning. Skill-based instruction will focus on desktop publishing, computer graphics, layout and design, sound mixing, video photography, and informational writing. Emphasis will be placed on using multimedia as a tool to enhance productions. This course will develop student awareness of the impact of multimedia in business and examine potential careers in this field.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Multimedia Productions 2

Students will use technology as a tool to facilitate critical thinking, organize information, and demonstrate learning. Skill-based instruction will focus on desktop publishing, computer graphics, layout and design, sound mixing, video photography, and informational writing. Emphasis will be placed on using multimedia as a tool to enhance productions. This course will develop awareness of the impact of multimedia in business and potential careers in the field. Students will be able to choose their productions and will be responsible for creating goals and achieving them throughout the semester. Peer to peer teaching will also take place.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Marketing

Marketing is one of the most visible business activities around you and affects you daily. This business course covers the foundations and functions of marketing. Students will learn about fundamentals dealing with product selling, distribution, marketing share, pricing, promotional mix, marketing plan, and much more! As you study marketing in the business world, you will also learn how to analyze how businesses influence consumer buying decisions. Students will apply their learning to school-related promotional projects. Students will manage the student-run social media accounts, such as Facebook, Instagram, Twitter, and TikTok.

**Grade Level:** 10-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## IC Human Relations

Students in this class will be in charge of the This course introduces students to the importance of human relations –summarized in one concise law of personal and organizational success: All work is done through relationships. Focusing on the interpersonal skills needed to be well-rounded and thoroughly prepared to handle a wide range of human relations issues, one's behavior at work and in our private lives is influenced by many interdependent traits such as emotional balance, self-awareness, integrity, self-esteem, physical fitness, and healthy spirituality. As a first exposure to a leadership role or a Human Resource Management career, the student explores the value of the non-technical work skills, history, theory, and the wide range of these skills needed in today's workplace.

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** ICC CIS 255 - 3 Credits

## IC Photoshop I

In this course students will learn practices and principles of digital imaging and photographic manipulation using Adobe Photoshop. Students will gain hands-on experience with the tools and techniques used by artists and designers to create effective and sophisticated digital imagery for print and web publication. The course covers photo editing, color correction, layers, selection and masking tools, blending modes, filters and more to enhance digital images and create special effects. Additional topics include copyright and project management.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** ICC CIS 255 - 3 Credits

## IC Introduction to Accounting

Students will receive instruction in analyzing and recording various business transactions and in completing the accounting cycle by journalizing, posting, preparing worksheets, making adjusting and closing entries, and preparing financial statements for service and merchandising businesses. Instruction will be provided for accounting for cash by using a petty cash fund, reconciling a bank statement, and utilizing the cash short and over account; calculating and journalizing employees' payroll; and calculating and journalizing employer payroll taxes. No previous accounting instruction is necessary.

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** ICC ACC 111 - 3 Credits

## Personal Finance

Personal Finance is a basic course leading towards effective money management. Decision-making and problem solving skills in consumer education will be emphasized. Units include personal money management, banking services, consumer and installment credit, personal savings and investments, real estate alternatives, insurance, federal and states taxes, and consumer product awareness. Internet resources and current readings will be used as resources. This is a required class for all students.

**Grade Level:** 11-12

**Category:** Required

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Media Design and Production

Media Design and Production has the ultimate task of creating The Mustang Yearbook. Techniques studied and applied during production of the book include advertising, fundraising, business managing, interviewing, journalistic writing, layout and design, desktop publishing, digital photography, and photo editing skills. Students in this class are expected to go on assignment to school events both during and after school hours to take pictures and collect information.

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

# Computer Science

## AP Principles of Computer Science

Principles of Computer Science introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. More than a traditional introduction to programming, it is a rigorous, engaging, and approachable curriculum that explores many of the foundational ideas of computing so all students understand how these concepts are transforming the world we live in. Topics throughout the year will include Digital Information, the Internet, Intro to App Design, Algorithms, Data Analysis, and Cybersecurity among others.

**Grade Level:** 10-12

**Category:** Elective

**Prerequisite:** Alg I or Teacher Approval

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

## Computer Science Discoveries

Computer Science Discoveries is an introductory computer science course for students. Mapped to CSTA standards, the course takes a wide lens on computer science by covering topics such as problem solving, programming, physical computing, user centered design, and data, while inspiring students as they build their own websites, apps, animations, games, and physical computing systems.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** 2 Semesters - 2 Credits

**Dual Credit:** No

# English/Language Arts

## English I

English I is designed to give freshmen a further introduction into academic English. Students will be building on their prior knowledge and understanding of English/Language Arts in order to further develop their communication skills. Students will be required to analyze and create a variety of texts. Students will also be required to build on and further develop their skills through in class and out of class assignments. Students should be prepared to read and write critically as they develop skills and independence throughout their transition from middle school to high school. Spelling, vocabulary, grammar, usage, punctuation, and mechanics will be emphasized in all written assignments.

**Grade Level:** 9

**Category:** Required

**Prerequisite:** None

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

## English II

English II is designed to give sophomores a comprehensive study of English/Language Arts; emphasis is placed on speech, composition, and literature. Students will focus on the application of written and oral communication skills through a variety of formal and informal experiences. Students will develop skills as presenters and listeners. Students will study literature and composition using a concept-based approach, integrating writing with the literature they are reading. Students will read from a selection of novels, poetry, fiction, nonfiction, and dramatic plays. Writing assignments include paragraphs, five-paragraph essays, a short research paper, and literary analysis. Spelling, vocabulary, grammar, usage, punctuation, and mechanics will be emphasized in all written assignments.

**Grade Level:** 10

**Category:** Required

**Prerequisite:** English I

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

## American Literature

Students will study a variety of literary forms which will include poetry, short stories, essays, novels, and dramas. Emphasis will be on major American authors and their works as students navigate the literature and time periods that formed American ethos and identity. Writing about literature will include argumentation, developing claims, and providing evidence.

**Grade Level:** 11

**Category:** Elective

**Prerequisite:** English I & II

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Elements of Writing

In this course, students will compose papers that will prepare them for necessary college-level writing skills and writing experiences needed for daily life. To supplement our writing, students will read a myriad of texts including short stories, fiction, non-fiction, and poetry. Writing may include summaries, persuasive essays, and research papers.

**Grade Level:** 11

**Category:** Elective

**Prerequisite:** English I & II

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Fundamentals of Literature

This course is designed to be an introduction to the diversity of literary texts. Students will explore work across different genres (drama, poetry, short fiction, the novel) and traditions (indigenous, postcolonial, global, British, American). Writing about literature will include argumentation, developing claims, and providing evidence.

**Grade Level:** 11

**Category:** Elective

**Prerequisite:** English I & II

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Fundamentals of Writing

This course will include writing experiences needed for daily life. These will include resumes, job applications, letters, technical writing, and instructions. There will be studies in proper use of punctuation and style. To supplement writing experiences, students will also read content inspired from current events, daily life experiences, workplace situations.

**Grade Level:** 11

**Category:** English

**Prerequisite:** English I & II

**Length/Credits:** Semester- 1 Credit

**Dual Credit:** No

## IC Composition I

This course focuses on the process of writing expressive and informative prose, incorporating oral, visual, and electronic modes. It introduces research skills and critical thinking skills and reinforces critical reading skills. This course helps students build confidence in their communication skills while also enabling them to think critically, consider the viewpoints of others, and effectively express themselves, all of which will benefit them in the classroom, in life, and in the workforce.

**Grade Level:** 12

**Category:** Elective

**Prerequisite:** ACCUPLACER (WritePlacer)  $\geq 5$  OR 4 +  $\geq 66$  in ACCUPLACER Reading Comprehension; OR Iowa Assessments  $>290$ ; OR ACT 18+

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** ICCC ENG 105 - 3 Credits

## IC Composition II

This course is a continuation of ENG 105 Composition I, with advanced work in research techniques. The major focus is on persuasive and argumentative writing with an emphasis on critical thinking and reading skills. This course helps students build confidence in their communication skills while also enabling them to think critically, consider the viewpoints of others, and effectively express themselves, all of which will benefit them in the classroom, in life, and in the workforce.

**Grade Level:** 12

**Category:** Elective

**Prerequisite:** "C" or better in Composition I

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** ICCC ENG 106 - 3 Credits

## Writing Lab

This course will focus on individual skill advancement in a variety of writing-based labs. Students will also focus on executive skills as well as work in a collaborative environment when possible. Writing as a form of personal communication will also be a focus.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - Non Credit

**Dual Credit:** No

## Communications

This course will incorporate the fundamentals of public speaking. Students will develop communication skills that can be used in a variety of speaking situations, such as group discussion, panels, delivering speeches, etc. Course topics may include research and organization, writing for verbal delivery, stylistic choices, visual and presentation skills, analysis and critique, and development of expressions and self-confidence.

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** English I & II

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Publications

This course will deal with the practical application of journalistic skills. Students will assume reporting and photography positions for the school newsletter and the Mustang Stampede publication in The Storm Lake Times Pilot newspaper. Students will assist in all aspects of producing the newspaper, from planning to pre-press production.

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** English I & II

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## English for Non-Native Speakers

This course is designed for students whose native language is not English. It will build upon the students' current English skills and extend their ability to read, write, speak and understand English. Students will receive direct instruction in these areas as well as practicing their skills while engaging in projects that require using their skills in a meaningful context. Students will engage in independent, self-based practice with a software curriculum in guiding vocabulary lessons for younger students, and in reading aloud to develop vocabulary and fluency.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

## Novels

Close reading of multiple genres including short stories as well as novels with the aim of developing a more critical and analytical interpretation of fiction and nonfiction texts. Topics include character, plot, narrative structure, theme, genre, historical, cultural, and political contexts, relation to identity, performance, and other forms of expression.

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** English I & II

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Media Literacy

In-depth analysis, composition, and reflection on written, oral, visual, and electronic discourse within academic, civic, and cultural contexts. Emphasis on argumentation: developing claims, generating reasons, and providing evidence.

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** English I & II

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

# Family and Consumer Science

## Intro to Family and Consumer Science

This introductory course is designed to introduce students to the various areas within the Family and Consumer Sciences (FCS). It is designed to present foundational subject matter in the following areas of FCS and experiences in the following areas: foods, cooking, nutrition, fashion, interior design, consumer and leadership skills, child development, as well as various career opportunities and pathways associated with the different areas. Students will be introduced to and participate in FCCLA, (Family, Career and Community Leaders of America) the co-curricular organization associated with FCS.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Foods and Nutrition

This course is designed to gain knowledge about basic food preparation. In this foods and nutrition course, the student will study the effect food has on the body and how to plan, prepare, and serve foods that are nutritional, attractive, and economical. Students will gain experience in the proper use of equipment and utensils while studying different types of food preparation. The students will develop a positive attitude and show cooperation while working in the kitchen lab in groups.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Advanced Foods and Nutrition

This advanced course broadens the scope of food study. This class reviews and expands upon previous food preparation and nutritional knowledge. The course takes the student into more depth in the following areas: principles of food preparation, food selection, meal planning, food evaluation, and food related careers. The students will apply the skills and content learned through various lab experiences.

**Grade Level:** 10-12

**Category:** Elective

**Prerequisite:** Foods and Nutrition

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Fashion Design

This course is intended for students who are beginning learners in fashion and fabric construction skills. They learn the parts and functions of a sewing machine, textiles and fabric construction, and basic construction techniques. Each student will make projects that are within the scope of the new skills and work towards independence in using and applying basic construction. Students will have the opportunity to work with the computerized embroidery machine. This course offers students independence as they work on individual projects. This course is hands-on and project based with the student selecting the majority of their projects.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** None

**Fees:** Varies on Projects

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Family Living

Family Living emphasizes building and maintaining healthy interpersonal relationships among family members and other members of society. It is designed to help students acquire practical tools for understanding, managing, and making wise decisions about relationships. The course will cover (but not limited to) topics such as self-awareness, personal goals, communication, social/dating practices, human sexuality and reproduction, marriage preparation, parenthood and the function of the family unit, finances, and the various stages of life. The students will have the opportunity to take the Real Care Baby home during the Parenting Unit.

**Grade Level:** 10-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Interior Design

This project-oriented course is designed to teach the basics of interior design, aesthetics of architectural and furniture styles, analysis of housing selection and floor plans, home furnishings and furniture arrangement, and the application of the elements and principles of design. The information learned in this class can also be used for personal enhancement of present and future living environments. Housing and Interior Design students will learn to make responsible decisions on how to select, create, and maintain desirable living environments. Students will also be introduced to career pathways in interior design and related fields such as drafting and architectural design.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

# Industrial Technology

## Basic Small Engines

This is a course of study in small engine operation and small engine maintenance. This course will cover general shop safety, hand tool usage, small engine tools, four stroke engine operation, two stroke engine operations, engine maintenance, and an opportunity to service a small engine.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Advanced Small Engines

This is a course of study in modern four stroke and two stroke engines. This course will cover shop safety, hand tool usage, small engine tools, four stroke engine operation, two stroke engine operations, diagnostics, troubleshooting, precision measurements and repair of all small engines. This is a lab based course.

**Grade Level:** 10-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Welding 1A

Welding 1A will cover careers, shop safety, measurements, oxy-acetylene; safety, set-up, cutting, welding, GMAW (MIG, Wire welding), proper grinder safety and usage. Safety is a constant concern, so students will dress appropriately and follow general shop safety regulations. There are no prerequisites for this course. Safety glasses, welding coats, welding masks, face shields and gloves are supplied. This course is lab and classroom based.

**Grade Level:** 10-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Welding 1B

Welding 1B will cover careers, shop safety, measurements, plasma torch; safety, set-up, cutting, and general usage, SMAW (stick welding), GTAW (TIG welding), proper grinder usage and safety. Safety is a constant concern, so students will dress appropriately and follow general shop safety regulations. There are no prerequisites for this course. Safety glasses, welding coats, welding masks, face shields and gloves are supplied. This course is lab and classroom based.

**Grade Level:** 10-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Welding 2

Welding II is a course that will cover careers in welding and related fields, measurements, shop safety, advanced welding and cutting techniques (ARC, SMAW, GTAW) with alternative materials, drafting/simple blueprints plans, and estimating projects. Safety is a constant concern, so students will dress appropriately and follow general shop safety regulations. Safety glasses, welding coats, welding masks, face shields and gloves are supplied. This course is lab and classroom based.

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** Welding 1A and 1B

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Sheet Metals (25-26)

Sheet Metals is a course that will cover general shop safety, hand tool usage, sheer use, sheet metal brake, spot welding, design, planning and project management. This course allows students to study the physical and chemical properties of metals and metal alloys and to use these materials to construct usable products according to industry standards.

**Grade Level:** 10-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Auto Body Repair

Students will have an opportunity to learn the basics in auto collision repair. This course will cover shop safety, tool usage, panel replacement, painting, metal straightening, plastic filler usage, weld on panel replacement, glass installation, masking, stripping, sanding and polishing, and custom painting. Each student will custom paint a bowling pin.

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** IC Auto Body Repair

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## IC Auto Body Repair

Auto Body Repair is an ICCC dual credit class. Students will have an opportunity to learn the basics in auto collision repair. This course will cover shop safety, tool usage, panel replacement, painting, metal straightening, plastic filler usage, weld on panel replacement, glass installation, masking, stripping, sanding and polishing, and custom painting. Each student will custom paint a bowling pin.

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** ICCC CRR 303 - 3 Credits

## IC Intro to Diesel Technology

Intro to diesel technology will introduce students to the world of the diesel engine. It will get them familiar with the different engine manufactures and the different engine and powertrain systems used today. Shop safety and the tools and fasteners of the diesel industry will be covered. Students will learn how to safely use shop equipment like jacks and presses. Shop skills like drilling, tapping, torching, and welding will be covered in the lab. Fine skills like precision measuring will be extensively covered.

**Grade Level:** 10-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** ICCC DSL 323 - 3 Credits



## ICCC Auto Block (26-27)

### Automotive Detailing (25-26)

Automotive detailing is a course of study in interior and exterior restoration. This course will general shop safety, use of detailing tools, disassembly and assembly of interior and exterior items, and proper usage of products related to automotive detailing.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

### Intro to Automotive (25-26)

Intro to automotive is a course of study in basic car ownership and maintenance. This will cover general shop safety, basic tool identification and usage, how to change a flat tire, general maintenance, vehicle safety identification and requirements of owning a vehicle. This course will be classroom and lab based.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

### IC Intro to Transportation \*ICCC AUTO

This introductory course provides an introduction to the many facets of the automotive industry, to include: careers affecting the automotive industry, environmental concerns affecting the automotive industry, basic automotive hand tools, specialty tools, precision measuring tools, power tools and shop equipment, using service and shop manuals, and shop safety.

**Grade Level:** 10-12

**Category:** Elective

**Prerequisite:** Recommended Small Engines

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** ICCC AUT 108 - 3 Credits

### IC Auto Electric \*ICCC AUTO

This introductory course covers basic electronic theory and utilization of electrical measuring instruments. Emphasis will be placed on the application of Ohms Law and the proper utilization of electronic test equipment including instrument selection, interpretation of results, and maintenance of equipment. Students will receive classroom and lab instruction on the diagnosis and repair of batteries, starting and charging systems.

**Grade Level:** 10-12

**Category:** Elective

**Prerequisite:** Recommended Small Engines

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** ICCC AUT 610 - 4 Credits

### IC Auto Engine Repair \*ICCC AUTO

This course will consist of classroom and lab instruction covering the theory of operation, disassembly, measurement, and reassembly of internal combustion gasoline and diesel power plants. When possible, power plants will be operationally tested prior to disassembly and after assembly.

**Grade Level:** 10-12

**Category:** Elective

**Prerequisite:** Recommended Small Engines

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** ICCC AUT 164 - 4 Credits

### IC Auto Brakes \*ICCC AUTO

The course covers the latest procedures of inspecting, measuring, diagnosing, and the repairing of drum and disc brakes. Classroom and lab instruction will be utilized to teach

students the latest procedure for inspecting, measuring, diagnosing and repairing the modern brake systems in use today.

**Grade Level:** 10-12

**Category:** Elective

**Prerequisite:** Recommended Small Engines

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** ICCC AUT 503 - 3 Credits

### IC Auto Lab \*ICCC AUTO

This course provides a review and analysis of the many facets of the Automotive Industry. To include established diagnostic procedures and routines, environmental concerns affecting the automotive industry; proper utilization of specialty tools, precision measuring tools, and shop equipment; utilization of service and shop manuals, and shop safety. This course will concentrate on reviewing the service areas in the automotive technology field to include operating in a simulated shop environment.

**Grade Level:** 10-12

**Category:** Elective

**Prerequisite:** Recommended Small Engines

**Length/Credits:** Semester - 2 Credits

**Dual Credit:** ICCC AUT 879 - 1 Credit

\*ICCC AUTO - Must be taken together

# Mathematics

## Pre-Algebra

Pre-Algebra courses increase students' foundational mathematical skills and prepare them for Algebra I by covering a variety of topics, such as properties of rational numbers (i.e., number theory), ratio, proportion, estimation, exponents and radicals, the rectangular coordinate system, sets and logic, formulas, and solving first-degree equations and inequalities.

**Grade Level:** 9-11

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

## Algebra I

Algebra I helps students to think and work systematically. It includes the study of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first degree equations and inequalities, sets and logic, translating word problems into equations, operations with and factoring of polynomials, and solving simple quadratic equations. [Whole numbers, positive/negative numbers, fractions, and decimals skills need to be mastered for this class.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

## Geometry

Geometry courses, emphasizing an abstract, formal approach to the study of geometry, typically include topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** Algebra I

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

## Algebra II

Algebra II completes the automation of the fundamental skills of algebra including field properties and theorems, set theory, operations with rational and irrational expressions, factoring of rational expressions, graphing and solving linear and quadratic equations, inequalities, properties of higher degree equations, and operations with rational and irrational exponents. Uniform motion problems, boat-in-the-river problems, and chemical mixture problems appear in problem sets. Simultaneous equations in two and three variables, nonlinear equations, right triangle trigonometry, conversion from rectangular to polar and polar to rectangular coordinates, addition of vectors are also emphasized. Also studied are similar triangles, complex numbers, completing the square and the quadratic formula.

**Grade Level:** 10-12

**Category:** Elective

**Prerequisite:** Geometry

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

## Precalculus/Trigonometry

Precalculus/Trigonometry courses combine advanced algebra and trigonometry topics and are usually intended for students who have attained Algebra I, Geometry and Algebra II objectives. Topics typically include trigonometry and circular functions, inverses, and graphs; trigonometric identities and equations; solutions of right and oblique triangles; complex numbers; numerical tables; field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; and properties of higher degree equations.

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** Algebra II

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

## Integrated Math

Integrated Mathematics gives struggling students explicit instruction in math skills, problem-solving, and key concepts. It emphasizes the foundations of algebra, operations with fractions, positive and negative numbers, ratios and proportionality, showing relationships with graphs, expressions, equations and exponents.

**Grade Level:** 9-10

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

## Math Lab

Math lab is designed for students who may need extra support on their daily mathematics work, or who have struggled in the past with gaps in their mathematical skills.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Calculus

Calculus is an introductory college-level calculus course. Students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions.

**Grade Level:** 12

**Category:** Elective

**Prerequisite:** PreCalculus/Trig

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

## Applied Math

Our real-life applications with practical, hands-on activities. Applied Mathematic materials make the transition from traditional, lecture-based courses to hands-on and active classrooms. These real-life applications enhance students' problem solving skills, encourage them to continue their math education, and help prepare them to reach state and national standards.

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

## IC Technical Math

This is the first course of the Technical Mathematics sequence. The course will cover basic mathematics as used in technical careers. Topics will include number sets and operations, fractions, ratios, proportions, percent's, and measurement. Students will develop the skills and reasoning to solve common problems involving mathematics in the workplace. This knowledge gained can also be applied to a variety of situations in everyday life involving mathematical literacy and reasoning.

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** ICCC MAT 743 - 3 Credits

## Statistics

This is a course in basic probability and statistics which includes the study of frequency distributions, measures of central tendency and dispersion, elements of statistical inference, regression, and correlation. This course will also help students gain mathematical literacy which will be of vital significance when making important life decisions. In addition, this course will help with any career that involves mathematics, decision making, or problem-solving.

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** Algebra II

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

# Music

## Concert Band

Concert Band is a performance based class that rehearses daily and participates in a number of concerts and contests throughout the school year. Concert Band will also represent the school as a pep band for fall and winter sport activities. Outside of class required performances include (but not limited to): Fall, Winter, and Spring concerts, pep band at home football and basketball games, Solo/Ensemble Contest, and Large Group Contest. Along with this, students will be given the opportunity to audition and perform in the Iowa All-State Band/Orchestra, as well as various honor bands around the state. Students are also given the opportunity to be awarded a band letter for participating in various extracurricular band activities.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

**Participation in Concert Band is required for anyone interested in joining either the Newell-Fonda Mustang Jazz Band or The Drumline.**

The Newell-Fonda Mustang Jazz Band is an auditioned extra-curricular ensemble that meets before and/or after school. Students must be enrolled in Concert Band, sign up and participate in summer lessons, and must complete an audition. The Newell-Fonda Mustang Jazz Band will compete in various competitions around the state of Iowa throughout the second half of the school year, as well as participate in any concert that Concert Band also performs in.

The Newell-Fonda Drumline is an ensemble consisting of students playing percussion equipment. Those in Drumline are required to participate in Concert Band as well as summer lessons. This is an ensemble open to anyone who fits these requirements, even if percussion is not their main instrument. The Drumline will perform at a couple of home football games in the fall and rehearsal will be before and/or after school.

## Chorus

High School Chorus is a performance based class which participates in a variety of concerts and contests. Rehearsals will focus on vocal health and technique while preparing for concerts and/or contest. The student will gain a basic understanding of vocal techniques and musical elements. Required performances include (but are not limited to): Fall, Winter and Spring Concerts, Solo/Ensemble Contest, Large Group Contest and Graduation.

Choir letters can be earned by achieving goals set by the instructor at the beginning of the year. Lettering opportunities include the extra-curricular singing opportunities such as performing the National Anthem at home games, participation in select honor choirs, Allstate, Honor Choirs and other various opportunities.

Basic class expectations include attending a weekly lesson, actively participating in all rehearsals and performances, and being a productive member of the ensemble.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

## Mixed Choir/Band

For students choosing to be involved in Instrumental as well as Vocal Music, we offer a mixed class. Students enrolled in Mixed Choir/Band will attend Concert Band on Mondays and Wednesdays. They will attend Choir on Tuesdays and Thursdays. Fridays are shared and distributed to the Band and Choir throughout the year based on need and upcoming events.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

# PE - Health

## Physical Education

Physical Education class will provide students with knowledge, opportunities, and experiences to develop skills in all aspects of physical activity. Students will be active participants in all areas of physical activity including team games, weight training, outdoor recreation, yoga/individual workouts. 5 Days/Week for 1 Semester

**Grade Level:** 9-12

**Category:** Required

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Lifetime Fitness

Lifetime Fitness aims to educate students on physical activities and healthy habits they can maintain throughout their lives, focusing on fundamental techniques, safety, and the importance of a balanced lifestyle. The goal of this class is to encourage students to become lifelong participants in physical activity and have a passion for a healthy lifestyle. 5 Days/Week for 1 Semester

**Grade Level:** 9-12

**Category:** Required

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

## Team Sports

Team Sports class will focus on being active while participating in team sport activities. Will help develop teamwork, social, and sportsmanship skills needed to be successful in group events. This class will have a combination of traditional team sports and unique activities that will challenge all levels of athletes. Students will also engage in learning the concepts, rules, and history of the team sports they are participating in. 5 Days/Week for 1 Semester

**Grade Level:** 9-12

**Category:** Required

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** No

# Science

## Health and Life Management

Topics covered in Health Education will include personal health and consumer health including nutrition, mental health, drug/alcohol abuse, disease prevention, first aid, etc. The class may also include brief studies of environmental health and personal development. This class will provide the knowledge and tools one needs to make smart choices and avoid unhealthy decisions.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Year - 2 Credit

**Dual Credit:** No

## Biology OSE

Students in Biology will use science practices such as modeling, arguing with evidence and analyzing data to explain unit-anchoring phenomena like changes in local ecosystems and urbanization. Students engage in these and other science practices to build, deepen, and apply their knowledge of core science ideas and crosscutting concepts. In each unit, cross cutting concepts such as cause/effect, patterns, structure/function and systems help students develop a coherent and scientifically-based view of the world around them. Each unit has a driving question related to the phenomenon, such as "What are the benefits and burdens of being part of a complex ecosystem?" and "Who gets cancer and why?". The integration of earth and space science and engineering concepts (ie.: human sustainability, earth systems) support students in deepening their understanding of the biology concepts in this course. There are five life science topics for high school: 1) Structure and Function, 2) Inheritance and Variation of Traits, 3) Matter and Energy in Organisms and Ecosystems, 4) Interdependent Relationships in Ecosystems, and 5) Natural Selection and Evolution (Organisms change over time). Other topics that scaffold across the high school curriculum are also included (energy and energy transfer). All of the biology and earth science standards in this course meet the Iowa expectations of a college and career-ready pathway to graduation.

**Grade Level:** 9

**Category:** Required

**Prerequisite:** None

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

## Chemistry OSE

Students in Chemistry will use science practices such as developing and using models, planning and conducting investigations, using mathematical thinking, constructing explanations, and designing solutions, asking questions, engaging in argument from evidence, and obtaining, evaluating and communicating scientific and technical information to explain unit-anchoring phenomena like polar ice and lightning. Students engage in these and other practices to build, deepen, and apply their knowledge of core science ideas and crosscutting concepts to answer questions like "What causes lightning and why are some places safer than others when it strikes?" and "Why are oysters dying and how can we use chemistry to protect them?". In each unit, cross cutting concepts such as patterns, energy and matter, and structure and function, stability and change help develop a coherent and scientifically-based view of the world. The integration of the earth and space science and engineering concepts such as weather and climate support a deeper understanding of the science concepts in this course. Some chemistry topics for high school include Structure and Properties of Matter, Chemical Reactions, and Energy. All of the chemistry and earth science standards in this course meet the Iowa expectations of a college and career-ready pathway to graduation.

**Grade Level:** 10

**Category:** Required

**Prerequisite:** None

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

## AP Chemistry

This AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. For most students, the course enables them to undertake, as a freshman, second year work in the chemistry sequence at their institution or to register in courses in other fields where general chemistry is a prerequisite. This course is structured around the six big ideas articulated in the AP Chemistry curriculum framework provided by the College Board. A special emphasis will be placed on the seven science practices, which capture important aspects of the work that scientists engage in, with learning objectives that combine content with inquiry and reasoning skills. AP Chemistry is open to all students that have completed Algebra 2 and who wish to take part in a rigorous and academically challenging course.

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** Recommended after Algebra II

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

**Advanced Placement:** Yes

## Physics OSE

Students in Physics will use science practices such as developing and using models, planning and conducting investigations, analyzing and interpreting data, using mathematical and computational thinking, and constructing explanations and designing solutions, asking questions, using engaging in argument from evidence, and obtaining, evaluating and communicating information to explain unit-anchoring phenomena like blackouts, meteors, and microwaves. Students engage in these and other practices to build, deepen, and apply their knowledge of core science ideas and crosscutting concepts to answer questions like "How have collisions with objects from space changed Earth in the past, and how could they affect our future?" "How can we design more reliable systems to meet our communities' energy needs?". In each unit, cross cutting concepts such as cause/effect; systems and system models, and stability & change, and energy and matter help to develop a coherent and scientifically-based view of the world. The integration of the earth and space science and engineering concepts (ie: plate tectonics, stars,

and gravity) support deeper understanding of the physics concepts in this course. Physical science topics for high school include 1) Forces and Interactions, 2) Forces and Motion and Types of Interactions, 3) Waves and Electromagnetic Radiation. 4) Definitions of Energy, 5) Conservation of Energy and Energy Transfer, 6) the Relationship between Energy and Forces, 7) Wave Properties, 8) Electromagnetic Radiation, and 9) Information Technologies. All of the physical science and earth science standards in this course meet the Iowa expectations of a college and career-ready pathway to graduation.

**Grade Level:** 11

**Category:** Required

**Prerequisite:** None

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

## Advanced Physics (26-27)

Physics courses involve the study of the forces and laws of nature affecting matter, such as equilibrium, motion, momentum, and the relationships between matter and energy. Included are the study of waves, light, electricity and thermodynamics. Problem solving skills are taught to help analyze and evaluate data so that logical decisions will be employed. Labs and other activities are provided to obtain experience with the concepts discussed. Offered every other year, will be offered in 2026-2027.

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** Junior-Senior Year

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

## IC Anatomy & Physiology I and II

A study of the structure and function of the human body, this two-semester sequence of dual credit courses is offered for eight hours of college credit through Iowa Central Community College. The curriculum is a study of the structure and function of the human body which begins at the cellular level and proceeds through each of the body systems. The courses consist of 3 hours of lecture plus 2 hours of lab each week. Prerequisite is successful completion of high school biology. Class begins at 8:00 a.m. (M & T) / 8:20 a.m. (W-F)

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Year - 2 Credits

**Dual Credit:** ICCC BIO 168 & Bio 173 - 4 Credits Each

## AP Biology (25-26)

Adhering to the curricula recommended by the College Board and designed to parallel college-level introductory biology courses, AP Biology courses emphasize four general concepts: evolution; cellular processes (energy and communication); genetics and information transfer; and interactions of biological systems. For each concept, these courses emphasize the development of scientific inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. AP Biology courses include college-level laboratory investigations.

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** Biology

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

**Advanced Placement:** Yes

## Zoology (25-26)

Zoology provides students with an understanding of animals, the niche they occupy in their environment or habitat, their life cycles, and their evolutionary relationships to other organisms. The course also helps students develop an awareness and understanding of biotic communities and abiotic factors that affect survival. This course meets the science requirement for graduation.

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** Biology

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

# Social Studies

## Africa

Africa is a semester long course that looks into the ancient and modern history of the continent. Topics include ancient civilizations, colonialism, nationalist and independence movements and modern history of the African continent. If time allows, we will explore the Middle East as well. Students will cover these topics in depth through readings, discussion, group and individual work, and projects.

**Grade Level:** 10-12  
**Category:** Elective  
**Prerequisite:** None  
**Length/Credits:** Semester - 1 Credit  
**Dual Credit:** No

## Asia

Asia is a semester long course that explores histories and cultures of the countries of India, Russia, China, and Japan. If time allows we will look into Pacific Ocean countries as well. Students will cover these topics in depth through readings, discussion, group and individual work, and projects.

**Grade Level:** 10-12  
**Category:** Elective  
**Prerequisite:** None  
**Length/Credits:** Semester - 1 Credit  
**Dual Credit:** No

## World Geography

World Geography courses provide students with an overview of World Geography, but may vary widely in the topics they cover. Topics typically include the physical environment; the political environment; various cultures; relationship between people and the land; economic production and development; and the movement of people, goods, and ideas.

**Grade Level:** 9-12  
**Category:** Elective  
**Prerequisite:** None  
**Length/Credits:** Semester - 1 Credits  
**Dual Credit:** No

## Contemporary Issues

Contemporary Issues focuses on studying current events happening today and understanding their effect on the world around us. Students are expected to participate in class and bring an open mind. Debate and written arguments/reflections are a large part of this class.

**Grade Level:** 10-12  
**Category:** Elective  
**Prerequisite:** None  
**Length/Credits:** Semester - 1 Credit  
**Dual Credit:** No

## World History

World History-Overview courses provide students with an overview of the history of human society from early civilization to the contemporary period, examining political, economic, social, religious, military, scientific, and cultural developments. Students will analyze and study various primary and secondary sources.

**Grade Level:** 9-12  
**Category:** Elective  
**Prerequisite:** None  
**Length/Credits:** Year - 2 Credits  
**Dual Credit:** No

## U.S. History

U.S. History-Comprehensive courses provide students with an overview of the history of the United States, examining time periods from Reconstruction through the Vietnam War. These courses typically include a historical overview of political, military, scientific, and social developments. Students should be prepared to read critically, learn historical research practices, and write in a historical manner.

**Grade Level:** 11  
**Category:** Required  
**Prerequisite:** None  
**Length/Credits:** Year - 2 Credits  
**Dual Credit:** No

## U.S. Government

U.S. Government-Comprehensive courses provide an overview of the structure and functions of the U.S. Government and political institutions, examine constitutional principles, the concepts of rights and responsibilities, the role of political parties and interest groups, and the importance of civic participation in the democratic process. These courses may examine the structure and function of state and local governments and may contain economic and legal topics.

**Grade Level:** 12  
**Category:** Required  
**Prerequisite:** None  
**Length/Credits:** Semester - 1 Credit  
**Dual Credit:** No

## People and History I

People and History I is a course designed to cover historical topics in depth for a period of a quarter (9 weeks) each. P&H I covers the topics of the Holocaust and Mythology. Students cover these topics in depth through readings, discussion, group and individual work, and projects. Emphasis is placed on critical thinking and research.

**Grade Level:** 9-12  
**Category:** Elective  
**Prerequisite:** None  
**Length/Credits:** Semester - 1 Credit  
**Dual Credit:** No

## People and History II

People and History II is a course designed to cover historical topics in depth for a period of a quarter (9 weeks) each. P&H II covers the topics of the Middle Ages and Military History. Students cover these topics in depth through readings, discussion, group and individual work, and projects. Emphasis is placed on critical thinking and research.

**Grade Level:** 9-12  
**Category:** Elective  
**Prerequisite:** None  
**Length/Credits:** Semester - 1 Credit  
**Dual Credit:** No

# World Language

## Spanish I

In this course, our goal will be to acquire Spanish language. "Acquiring" a language is very different from "learning" a language. Acquiring is something that happens to you instead of something that you make happen. This class will teach Spanish exactly the same way everyone learned their first language, through a teaching method called Comprehensible Input. This method prioritizes the students' gaining as much experience in the language (input) as possible. Class will be 90% or more in Spanish from the first class. This method also requires the teacher to make all that Spanish completely comprehensible (understandable) to the student through context, body language, acting, pointing, drawing, even just translating to English from time to time. Students will begin with listening and reading passages and then later in the year move to writing and finally speaking. Students will work on individual culture projects throughout the year based on their individual interests.

**Grade Level:** 9-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

## Spanish II

In this course, our goal will be to acquire Spanish language. "Acquiring" a language is very different from "learning" a language. Acquiring is something that happens to you instead of something that you make happen. This class will teach Spanish exactly the same way everyone learned their first language, through a teaching method called Comprehensible Input. This method prioritizes the students' gaining as much experience in the language (input) as possible. Class will be 90% or more in Spanish from the first class. This method also requires the teacher to make all that Spanish completely comprehensible (understandable) to the student through context, body language, acting, pointing, drawing, even just translating to English from time to time. Students will continue with listening and reading passages, Students will be writing and speaking as well. Students will also read novels. Students will work on

individual culture projects throughout the year based on their individual interests.

**Grade Level:** 10-12

**Category:** Elective

**Prerequisite:** Spanish I

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

## Spanish III

In this course, our goal will be to acquire Spanish language. "Acquiring" a language is very different from "learning" a language. Acquiring is something that happens to you instead of something that you make happen. This class will teach Spanish exactly the same way everyone learned their first language, through a teaching method called Comprehensible Input. This method prioritizes the students' gaining as much experience in the language (input) as possible. Class will be 90% or more in Spanish from the first class. This method also requires the teacher to make all that Spanish completely comprehensible (understandable) to the student through context, body language, acting, pointing, drawing, even just translating to English from time to time. Students will continue with listening and reading passages that are at their level. Students will continue to write and speak in Spanish. Students will be reading more advanced novels. Students will work on individual culture projects throughout the year based on their individual interests.

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** Spanish II

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No

## Spanish IV

In this course, our goal will be to acquire Spanish language. "Acquiring" a language is very different from "learning" a language. Acquiring is something that happens to you instead of something that you make happen. This class will teach Spanish exactly the same way everyone learned their first language, through a teaching method called Comprehensible Input. This method prioritizes the students' gaining as much experience in the language (input) as possible. Class will be

90% or more in Spanish from the first class. This method also requires the teacher to make all that Spanish completely comprehensible (understandable) to the student through context, body language, acting, pointing, drawing, even just translating to English from time to time. Students will continue with listening and reading passages. Students will be writing and speaking primarily in Spanish. Students will read novels. Students will work on individual culture projects throughout the year based on their individual interests.

**Grade Level:** 12

**Category:** Elective

**Prerequisite:** Spanish III

**Length/Credits:** Year - 2 Credits

**Dual Credit:** No



# Iowa Central Career Academy Options

## Certified Nursing Assistant

### IC Nurse Aide (CNA)

This course provides students with a basic level of knowledge and skills to provide safe, effective resident care. This nurse aide course meets the training requirements of The Omnibus Budget Reconciliation Act of 1987 (OBRA) for aides working in nursing facilities (NF) and skilled nursing facilities (SNF).

**Grade Level:** 11-12

**Category:** Elective

**Prerequisite:** None

**Length/Credits:** Semester - 1 Credit

**Dual Credit:** ICCC HSC 172 - 3 Credits

## NW Career Academy

### IC Welding

2 Year Program

**NW Career Academy:** Laurens Campus

**Grade Level:** 11-12

### IC Advanced Manufacturing

2 Year Program

**NW Career Academy:** Laurens Campus

**Grade Level:** 11-12

### IC CNC Machining

2 Year Program

**NW Career Academy:** Laurens Campus

**Grade Level:** 11-12

## Regional Career Academy

### IC Advanced Manufacturing

1 Year Program

**Regional Career Academy:** Storm Lake Campus

**Grade Level:** 11-12

### IC Business

1 Year Program

**Regional Career Academy:** Storm Lake Campus

**Grade Level:** 11-12

### IC Computer Science / Programming

1 Year Program

**Regional Career Academy:** Storm Lake Campus

**Grade Level:** 11-12

### IC Electrical Technologies

1 Year Program

**Regional Career Academy:** Storm Lake Campus

**Grade Level:** 11-12

### IC Health Science

1 Year Program

**Regional Career Academy:** Storm Lake Campus

**Grade Level:** 11-12

### IC Industrial Mechanics

1 Year Program

**Regional Career Academy:** Storm Lake Campus

**Grade Level:** 11-12

### IC Liberal Arts

1 Year Program

**Regional Career Academy:** Storm Lake Campus

**Grade Level:** 11-12

### IC Nursing

1 Year Program

**Regional Career Academy:** Storm Lake Campus

**Grade Level:** 11-12

### IC Education

1 Year Program

**Regional Career Academy:** Storm Lake Campus

**Grade Level:** 11-12