

LET YOUR  
JOURNEY BEGIN

CRESTON COMMUNITY HIGH SCHOOL

# THE COURSE CATALOG

CRESTON, IOWA

2020-2021

FALL / WINTER / SPRING

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# CRESTON COMMUNITY HIGH SCHOOL

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## EQUITY STATEMENT

Creston Community School District is an equal employment opportunity and affirmative action employer. The District does not discriminate on the basis of race, color, creed, sex, sexual orientation, gender identity, sex and marital/parental status, ethnicity, national origin, religion, age, or disabilities in its educational programs, services or employment practices.

Inquiries concerning application of this statement, including grievance procedures, should be addressed to Equity Coordinator, 801 North Elm Street, Creston, Iowa 50801. Telephone number (641) 782-7028.

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# GRADUATION REQUIREMENTS

Each student must accumulate 54 credits in grade nine through twelve to be eligible for graduation at Creston High School

Each student must have credits in the following curricular areas in accordance with the Iowa Department of Education and the Board of Education of Creston Community Schools:

<b>English</b>	8 credits <i>Required:</i>	<b>English I</b> – 2 credits <b>English II</b> – 2 credits <b>English III</b> – 2 credits <b>Speech</b> – 1 credit
<b>Mathematics</b>	6 credits <i>Required:</i>	<b>Algebra I</b> – 2 credits <b>Geometry</b> – 2 credits <b>Algebra II</b> – 2 credits
<b>Science</b>	6 credits <i>Required:</i>	<b>Physical Science</b> – 2 credits <b>Biology</b> - 2 credits <b>Unified Science or Chemistry</b> - 2 credits
<b>Social Studies</b>	6 credits <i>Required:</i>	<b>United States History</b> – 2 credits <b>World History</b> – 2 credits <b>Economics</b> – 1 credit or <b>Economics and Marketing Principles</b> - 1 credit <b>Government</b> – 1 credit
<b>Financial Literacy</b>	1 credit	options: <b>Personal Business Management</b> - 1 credit <b>Independent Living</b> - 1 credit <b>Agricultural Business</b> - 1 credit
<b>Physical Education*</b>	1 credit	
<b>S.O.S.</b>	1 credit	
<b>Electives</b>	25 credits	

The following courses meet for more than one block and receive the following credits:

- **Carpentry I** – 4 credits for each semester
- **Carpentry II** – 4 credits for each semester
- **Automobile Mechanics I** – 4 credits for each semester
- **Automobile Mechanics II** – 4 credits for each semester
- **Information Technology Systems Networking Year 1**  
- 2 credits for each semester
- **Information Technology Systems Networking Year 2**  
- 3 credits for 1st semester, 2 credits for 2nd semester
- **Health Occupations I** – 2 credits for each semester
- **Health Occupations II** – 2 credits for each semester
- **Electrical Technology Year 1** – 4 credits for each semester
- **Electrical Technology Year 2** – 4 credits for each semester

*Note: Possible changes in required electives may take place after publication of this guide.*

Students will receive **1/4 credit** for each semester of **physical education\*** that they satisfactorily complete. Students are expected to take one semester of physical education each of their four years of high school.

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## GRADUATED DIPLOMAS

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### PURPOSE

- Recognize students who have achieved academically.
- Encourage effort and performance on Iowa Assessments.
- Reward students for taking additional courses, particularly advanced core courses.
- Recognize completion of IEP goals with certificate of achievement.

### STANDARD DIPLOMA

To receive the Standard diploma from Creston High School, a student must:

- Earn **54 credits** in grades 9-12, meeting all requirements for core courses and electives.

### WITH DISTINCTION DIPLOMA

To receive the "With Distinction" diploma from Creston High School, a student must:

- Earn **56 credits** in grades 9-12.
- Maintain a grade point average equal to or exceeding 3.2.
- Achieved an ACT score of at least 23.

### WITH HONORS DIPLOMA

To receive the "With Honors" diploma from Creston High School a student must:

- Earn **58 credits**, which includes four years of English (including English Literature or English Composition); three years of math (including Geometry); three years of science (including either Chemistry or Physics); three years of social studies; and two years of foreign language.
- Maintain a grade point average equal to or exceeding 3.6.
- Achieved an ACT score of at least 25.

This program will be reviewed annually.

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## COLLEGE PREP COURSES

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Although each college or university has specific recommendations regarding high school preparation, the following suggestions should help you plan your high school program.

**ENGLISH:** Four years including composition, literature, and speech.

**MATHEMATICS:** Three years recommended. An increasing number of specializations at the college level expect four full years of pre-collegiate mathematics. It is also important that a math class is taken during the senior year.

**SCIENCES:** Three years recommended. An increasing number of specializations at the college level expect four years of high school science.

**SOCIAL STUDIES:** Three years of study is recommended in history, government, economics, and sociology.

**FOREIGN LANGUAGE:** At least two years recommended for most students, preferably three or more years for those intending to continue to study a foreign language.

**ART AND MUSIC:** The arts contribute much to every student's awareness of his/her cultural heritage. Those who plan to major in art or music should seek out opportunities for further study and for participation in co-curricular activities.

**INDIVIDUAL INTEREST AREAS:** Agriculture, business, computers, family and consumer science, industrial technology, etc., contribute to the educational growth of an individual while serving as a foundation for continued study.

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## COURSE GUIDELINES

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The high school staff, administration, and guidance department will assume that parents and students have made every attempt to study the course description catalog so that the final schedule submitted is permanent for the following year. Seminar teachers in cooperation with the guidance office will work closely with the student and parents, to put together a challenging schedule that meets the student's needs.

Every attempt will be made to meet the student's requests when developing the master schedule. However, due to course demand and the nuances of putting together a master schedule, that may not be possible in every case. Priority will be given to scheduling classes required for graduation for seniors. Attention will also be paid to meeting career pathway guidelines.

It is our goal to have each student's first semester schedule complete prior to the end of the current school year. Should we get the schedules completed prior to the last day of school, students will be given a due date for changes. The school may make changes based on class size and unforeseen situations that may arise.

Students who enroll in year-long courses are expected to complete the course. Exceptions will only be made on an individual basis with parental and teacher approval.

If a student fails the first semester of a year-long class, a determination of whether that student will be allowed to continue will be made on an individual basis based on recommendation of the teacher, counselor, and administration.

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## CAREER PATHWAY RECOMMENDATIONS

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Many students may choose to enter a vocational or technical field of study upon graduation from Creston High School. With the changing world economy, the academic courses and training that they receive at the high school level is very important in terms of preparation for those programs. For many students this is an excellent career path as three to five skilled and technical workers are hired to support each professional. However, most of the new jobs in service industries available in the future will demand much higher skill levels than the jobs of today. As our society becomes more complex, the amount of knowledge needed to make a productive contribution becomes greater. Very few jobs will be available for those who cannot read, follow directions, and use basic mathematics. If a student has doubts about four year colleges, our vocational offerings will help prepare individuals for employment upon graduation and for continuing education at a community college or technical school.

Our counselors can schedule a logical sequence of vocational course work that will allow the student to reach basic competencies in job related fields such as electronics, office management, child care, auto mechanics, woodworking, drafting, metal working, and food preparation. All of these programs teach the application of academics as well as job skills and technical knowledge. Completion of suggested sequencing should enable the student to easily enter a post-secondary institution to further his/her skills or provide a basic foundation needed to enter a related job in the work force.

# MASTER LIST / AREA XIV CAREER PATHWAYS

<b>Agriscience/ Natural Resources</b>	<b>Arts and Communication</b>	<b>Business/Information Management/Marketing</b>	<b>Engineering/Industrial/ Technology Service</b>	<b>Family &amp; Human Services</b>	<b>Health Sciences</b>
Agri Engineer	Actor/Actress	Accountant	Architecture Drafting Technician	Chef	Ambulance Driver
Agri. Marketing Specialist	Art Director	Actuarialist	Architect	Child Care Manager	Chiropractor
Agri. Mechanic	Audio Visual Designer	Administrative Assistant	Autobody Repair	Clothing Manufacture	Dental Assistant
Agri. Sales Representative	Cartoonist	Advertising specialist	Automation Technician	Clothing Retail Manager	Dentist
Agronomist	Commercial Artist	Bank Teller	Auto Service Manager	Corrections Officer	EEG/EKG Technician
Animal Nutritionist	Computer Animation Specialist	Bookkeeper	Auto Technician	Cosmetologist	EMT/Paramedic
Animal Trainer	Computer Graphics Specialist	Business Manager	Bricklayer/Mason	Dietitian	Fitness/Wellness Technician
Beef Specialist	Editor	Buyer - Retail/Wholesale	Bldg. Mat. Sales Manager	Dispatcher	Home Health Aide
Beekeeper	Greeting Card Designer	Cashier	Bus Driver	Elementary Teacher	Laboratory Technician
Conservation Technician	Illustrator	Computer Operator	Carpenter	Family Service Specialist	Medical Doctor
DNR Officer	Interpreter	Computer Programmer	Civil Engineer	Fashion Designer	Medical Equipment Repair
Farm manager	Journalist	Court Reporter	Commercial Pilot	Fire Fighter	Medical Records
Farm Operations Technician	Musician	Data Entry Clerk	Diesel Mechanic	Food Manufacture	Medical Supply Technician
Feed Store Manager	News Reporter	Executive Secretary	Drafting Technician	Food Marketer	Mortician
Fert/Chem. Plant Manager	Paste Up Specialist	Info Management Specialist	Electrical Engineer	Food Quality Assur.	MRI Technician
Florist	Photographer	Insurance Adjuster	Engineering Technician	Food Service Specialist	Nurses Aide
Forester	Printing Press Operator	Insurance Clerk	Heating/Air Condition Specialist	Hair Stylist	Nursing Home Administrator
Geologist	Public Relations	Inventory Specialist	Heavy Equipment Mechanic	Hospitality Services	Optometry Technician
Greenhouse Technician	Radio/TV Announcer	Lawyer	Ind./Comm. Electrician	Hotel/Motel Manager	Oral Medicine
Groundskeeper	Regional Planner	Legal Assistant	Industrial Technologist	Interior Designer	Pharmacist
Horse Trainer	Sculptor	Office Assistant	Instrumentation Technician	Nutritionist	Physical Therapist
Horticulturist	Technical Writer	Office Manager	Machine Operator	Police Officer	Physicians Assistant
International Agriculture	Telecommunication Specialist	Receptionist	Machinist	Probation Officer	Psychologist
Landscape Design Specialist	Theatrical Producer	Sales Manager	Manufacturing Technician	Restaurant Manager	Registered Nurse
Lawn Management	Typesetter	Sales Representative	Painter	Salon Manager	Respiratory Therapist
Logger		Small Business Owner	Plumber	Seamstress/Tailor	Substance Abuse Counselor
Nursery Worker		Stock Clerk	Robotics Technician	Social Worker	Surgical Technician
Poultry Specialist		Systems Analyst	Roofer	Teacher MS/HS	Trainer - Athletics
Seine Specialist		Tax Specialist	Truck Driver		X-Ray Technician
Tractor Service/Parts Manager		Travel and Tourism	Welder		
Veterinarian		Word Processor			
Veterinary Assistant					
Wildlife Biologist					



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## POST SECONDARY ENROLLMENT OPTION

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Students enrolled at Creston High School may participate in this program and earn credits toward graduation upon successful completion of the courses at a post secondary educational institution. (The Board of Education of Creston Community School District has complete discretion to determine the amount of academic credit to be awarded toward completion of graduation requirements.)

During finals week at the college, Creston High School will be flexible with the student's schedule due to the scheduling of the college tests. However, students are expected to notify high school teachers ahead of time and are to attend as much class time at the high school as possible. Failure to communicate with the high school teacher may result in an unexcused absence for that class.

### **Creston High School Enrollment Requirements:**

- High school courses must be taken in sequence and completed prior to a student being allowed to take one of the college level classes.
- Students are eligible to take college level courses that are:
  1. Nonsectarian courses.
  2. Courses that are not comparable to courses offered by the school district.\*
  3. Credit-bearing courses that lead to an educational degree.
  4. Courses in the discipline areas of mathematics, science, social sciences, humanities, vocational-technical education and also the courses in career option programs offered by area schools established under the authorization provided in chapter 280A, Iowa Code.
- **A student who voluntarily or involuntarily drops a college class after the drop date established at Creston High School a fee of \$250 for PSEO courses.**
- Students cannot enroll in more than 24 credit hours of college classes per year.
- **Students will not be allowed to adjust their schedules to accommodate "fast-track" classes.**
- Students are required to return the books to the office by the established deadline each semester or they will be billed for the cost. **Lost textbooks will result in student being billed for the entire cost of a replacement textbook.**
- Students are required to meet all aspects of the Senior Year Plus Legislation.
- Students who take dual credit courses at Creston High School through the post-secondary enrollment option will have their final grade factored into their cumulative grade point average. Students opting to take a college credit course which they pay for will have the option of including their final grade in factoring their grade point average.
- Post-secondary courses in the core content areas will count toward meeting graduation requirements.

- **PSEO and contract courses do count toward meeting graduation requirements. Under the Senior Year Plus legislation, students wishing to register for courses at a post-secondary institution must be proficient in all of the content areas of READING, MATH and SCIENCE as evidenced by achievement scores on the most recent administration of the Iowa State Assessment of Student Progress. The student must also meet any entrance requirements established by each respective post-secondary institution.**

*\* Creston Community School District will determine those courses that are comparable to those taught at Creston High School.*

## SO WHAT'S YOUR RAI SCORE?

Admission of freshmen to the Iowa Regent universities is based on the Regent Admission Index (RAI) formula described below. In addition, applicants must meet the minimum high school course requirements for the university they wish to enter.

$$\begin{aligned} & (3 \times \text{ACT composite score}) \\ & + (30 \times \text{high school GPA}) \\ & + (5 \times \text{number of high school core courses}) \\ \hline & \text{Regent Admission Index Score} \end{aligned}$$

*Note:* For purposes of calculating the RAI, SAT scores will be converted to ACT composite equivalents. 4.00 is the top value for GPA, and the number of high school core courses completed is expressed in terms of years or fractions of years (e.g., one

semester equals 0.5 year). Applicants who do not possess all required factors will be evaluated on an individual basis by the Regent universities to which they apply.

Freshman applicants who achieve at least a 245 RAI score and who meet the minimum number of high school courses required by the Regent universities will qualify for automatic admission to any of the three Regent universities. Freshman applicants who achieve less than a 245 RAI score may also be admitted to a specific Regent university, however, each Regent university will review these applications on a individual basis and the admission decision will be specific to each institution.

Go to [www.regents.iowa.gov/RAI/](http://www.regents.iowa.gov/RAI/) to calculate your own **RAI** score.

## CRESTON HIGH SCHOOL CORE COURSE LIST APPROVED FOR RAI - ISU, UNI and U of I

*Source: 2018-2019 SRI Winter date. (Note: course numbers in parentheses refer to community college course numbers)*

ENGLISH	CU*	MATH	CU*	SCIENCE	CU*	SOCIAL STUDIES	CU*	WORLD LANGUAGES	CU*
Adv Speech	0.5	Algebra 1	1	Biology	1	Abnormal Psychology [PSY241]	0.5	French 2 (ILO)	0.5
Composition I [ENG105]	0.5	Algebra 2	1	Chemistry	1	American Experience in Vietnam [HIS268]	0.5	French 3 (ILO)	0.5
Composition II [END106]	0.5	Calculus 1 [MAT210]	0.5	Essentials of Anat & Phys [BIO162]	0.5	Contemporary Affairs	0.5	Spanish 1	1
English 1	1	Calculus 2 [MAT216]	0.5	General Chemistry 1 [CHM166]	0.5	Developmental Psychology [PSY121]	0.5	Spanish 2	1
English 2	1	Calculus 3 [MAT219]	0.5	General Chemistry 2 [CHM176]	0.5	Economics	0.5	Spanish 3	1
English 3	1	College Alg (Pre Calc) [MAT120]	0.5	Human Anat & Phys	1	Government	0.5	Spanish 4	1
English Literature	0.5	Discrete Mathematics	0.5	Intro Biology [BIO105]	0.5	Into to Psychology [PSY111]	0.5		
Fund of Oral Comm [SPC101]	0.5	Geometry	1	Natural Resources & Env	0.5	Intro to Sociology [SOC110]	0.5		
Honors English 1	1	Pre-Calculus	1	Physical Science	1	Modern World History	0.5		
Honors English 2	1	Probability & Statistics	0.5	Physics	1	Sociology	0.5		
Honors English 3	1	Statistics [MAT156]	0.5			Street Law	0.5		
Mythological & Biblical Lit [LIT178]	0.5	Trigonometry	0.5			US History	1		
Speech	0.5					US History to 1878 [HIS151]	0.5		
Technical Writing	0.5					US History since 1877 [HIS152]	0.5		
						Wstrn Civ: Ancient to Modern [HIS110]	0.5		
						Wstrn Civ: Modern to Present [HIS111]	0.5		
						World History	1		
						World Regional Geography [GEO121]	0.5		
<b>Total English</b>		<b>Total Math</b>		<b>Total Science</b>		<b>Total Social Studies</b>		<b>Total World Languages</b>	

\*The numbers in this column represent the Carnegie units awarded for each course. This number should be multiplies by 5 to determine the number of RAI points awarded for the course.

# COLLEGE ADMISSION REQUIREMENTS

## BUILDING YOUR FUTURE: Preparing for Academic Success at Iowa's Regents Universities

	MINIMUM REQUIREMENTS FOR ADMISSION			OPTIMUM PREPARATION
	IOWA STATE UNIVERSITY	THE UNIVERSITY OF IOWA	UNIVERSITY OF NORTHERN IOWA	
ENGLISH	<b>4 YEARS</b> emphasizing writing, speaking, reading, as well as an understanding and appreciation of literature.	<b>4 YEARS</b> with an emphasis on the analysis and interpretation of literature, composition, and speech.	<b>4 YEARS</b> including one year of composition, also may include one year of speech, communication, or journalism.	<b>4 YEARS</b> with an emphasis on the communication skills of writing, reading, and listening, and the analysis and interpretation of literature. In addition, courses in journalism and media literacy will be valuable. Extracurricular activities in debate, speech contest, newspaper, and yearbook will further develop essential competencies.
MATH	<b>3 YEARS</b> including one year each of algebra, geometry, and advanced algebra.	<b>3 YEARS</b> including two years of algebra and one year of geometry for admission to the College of Liberal Arts and Sciences.  <b>4 YEARS</b> including two years of algebra, one year each of geometry and high math (trigonometry, analysis, or calculus) for admission to the College of Engineering.	<b>3 YEARS</b> including the equivalent of algebra, geometry, and algebra II.	<b>4 YEARS</b> , one in each year of high school. While advanced courses like calculus and statistics are good, it's more important that you gain a complete understanding of advanced algebra and trigonometry.
NATURAL SCIENCE	<b>3 YEARS</b> including at least two years of courses which emphasize elements of biology, chemistry or physics.	<b>3 YEARS</b> including courses in physical science, biology, chemistry, environmental science and physics for admission to the College of Liberal Arts and Sciences.  <b>3 YEARS</b> with at least one year each in chemistry and physics for admission to the College of Engineering. Nursing-3 years, including one year each of biology, chemistry and physics.	<b>3 YEARS</b> including courses in general science, biology, chemistry, earth science, or physics. Laboratory experience is highly recommended.	<b>4 YEARS</b> , one in each year of high school. To be really well prepared for college, take at least one year each of biology, chemistry, and physics. These can be taken in any order and may be taught productively in either a separate or integrated fashion, depending on your school's offerings.
SOCIAL STUDIES	<b>2 YEARS</b> for admission to the Colleges of Agriculture and Life Sciences, Business, Design, Engineering, and Human Sciences.  <b>3 YEARS</b> for admission to the College of Liberal Arts and Sciences.	<b>3 YEARS</b> with U.S. history and world history recommended for admission to the College of Liberal Arts and Sciences.  <b>2 YEARS</b> with U.S. history and world history recommended for admission to the College of Engineering.	<b>3 YEARS</b> including courses in anthropology, economics, geography, government, history, psychology, or sociology.	<b>3 YEARS</b> are essential, but four are better. Take at least one year of U.S. history and one year of world history. Additional courses in anthropology, economics, political science, psychology, and sociology provide an important understanding of our political, social, and economic institutions.
FOREIGN LANGUAGE	<b>2 YEARS</b> of a single foreign language for admission to the College of Liberal Arts and Sciences and the College of Engineering.	<b>2 YEARS</b> of a single foreign language are required for admission. For many degrees, the fourth year of proficiency is required for graduation. Nursing-4 years in a single language or two years each in two different languages.	Foreign language courses are not required for admission. However, two years of foreign language in high school with a C- or above in the last course will meet the University graduation requirements.	<b>4 YEARS</b> of a single foreign language. By taking foreign language during all four years of high school, you'll go beyond the basic skills and begin to use the language and reinforce your fluency.
OTHER COURSES	Specific elective courses are not required for admission.	Specific elective courses are not required for admission.	<b>2 YEARS</b> of additional courses from the required subject areas, foreign languages, or fine arts.	<b>EXPLORE!</b> Courses in fine arts, performing arts, computers, or technology will help round out your high school experience. Your future study or career may focus on one of those areas. Follow your interests, talents, and the strengths of your school. Remember to choose courses with high academic standards.

[www.regents.iowa.gov/RAI/RAIposter.pdf](http://www.regents.iowa.gov/RAI/RAIposter.pdf)

# AGRICULTURE EDUCATION

## AGRICULTURE EDUCATION SCOPE & SEQUENCE

	9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE
ELECTIVES	AFNR	AFNR Agriculture Business* Agricultural Power and Technology Intro to Plant Science Advanced Plant Science Environmental & Business Law* Economics & Marketing Principles Landscaping Principles* Intro to Principles of Animal Science Advanced Principles of Animal Science	AFNR Agriculture Business* Agricultural Power and Technology Intro to Plant Science Advanced Plant Science Environmental & Business Law* Economics & Marketing Principles Landscaping Principles* Career Seminar Agricultural Studies* Intro to Principles of Animal Science Advanced Principles of Animal Science	AFNR Agriculture Business* Agricultural Power and Technology Intro to Plant Science Advanced Plant Science Environmental & Business Law* Economics & Marketing Principles Landscaping Principles* Career Seminar Agricultural Studies* Intro to Principles of Animal Science Advanced Principles of Animal Science
	*Preference given to 11th and 12th Grades			

### AGRICULTURE FOOD AND NATURAL RESOURCES (AFNR)

*Term: Year*

*Grade Level: 9, 10, 11, 12*

*Recommended: 9th Grade students*

Students participating in the *Introduction to Agriculture, Food and Natural Resources* course will experience exciting “hands-on” activities, projects, and problems. Student experiences will involve the study of communication, the science of agriculture, plants, animals, natural resources, and agricultural mechanics. While surveying the opportunities available in agriculture 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. The *Introduction to Agriculture, Food, and Natural Resources* course is intended to serve as the introductory course within the Creston Agriculture Department's Program of Study. The course is structured to enable all students to have a variety of experiences that will provide an overview of the fields of agricultural science and natural resources so that students may continue through a sequence of courses through high school. The knowledge and skill students develop will be used in future courses within the Creston Agriculture Education program.

### AGRICULTURAL BUSINESS

*Term: Semester*

*Grade level: 10, 11, 12*

*Prerequisite: None—preference given to 11 & 12*

*Note: Meets Financial Literacy requirements*

Finance and business management are core curriculum requirements in almost all student business program offerings in college. This course will better prepare students for their future studies in the business areas. Topics of discussion will include net worth statements, valuation of assets (basis), cash flow statements, profit and loss statements, along with budget analysis. Students will learn how banks look at businesses to evaluate their profitability, how to adequately prepare financial reports required by financial institutions in order to maximize loan success. Students who have no agricultural background will still find this course has much to offer in developing future credit strategies.

### AGRICULTURAL POWER AND TECHNOLOGY

*Term: Semester*

*Grade Level: 10, 11, 12*

*Prerequisites: None*

Agricultural Power and Technology is a foundation level course designed to prepare students for the wide array of career opportunities in agricultural engineering. Students are immersed in inquiry-based exercises that tie in the math and science of agricultural mechanics and engineering. Throughout the course, students apply technical skill while becoming competent in the process used to operate, repair, engineer, and design agricultural tools and equipment. Areas of study include shop safety, tool operation, materials Selection and use, fabrication, energy and power, machines, machinery management, engineering, and technology applications.

### INTRODUCTION TO PLANT SCIENCE

*Term: Fall Semester*

*Grade level: 10, 11, 12*

*Preference: AFNR*

The course is structured to enable all students to have a variety of experiences that will provide an overview of the field of agricultural science with a foundation in plant science so that students may continue through a sequence of courses through high school. Students will work in teams, exploring hands-on projects and activities, to learn the characteristics of plant science and work on major projects and problems similar to those that plant science specialists, such as horticulturalists, agronomists, greenhouse and nursery managers and producers, and plant research specialists face in their respective careers. This class will focus on the basics of plant science including plant physiology, soils, insects, and nutrients.

### ADVANCED PLANT SCIENCE

*Term: Spring Semester*

*Grade level: 10, 11, 12*

*Preference: AFNR and Intro to Plant Science*

The course is structured to enable all students to have a variety of experiences that will provide an overview of the field of agricultural science with a foundation in plant science so that students may continue through a sequence of courses through high school. Students will work in teams, exploring hands-on projects and activities, to learn the characteristics of plant science and work on major projects and problems similar to those that plant science specialists, such as horticulturalists, agronomists, greenhouse and nursery managers and producers, and plant research specialists face in their respective careers. This class will focus on plant reproduction, cropping systems management, and marketing.

## ENVIRONMENTAL AND BUSINESS LAW

*Term: Semester*

*Grade level: 10, 11, 12*

*Prerequisite: None—preference given to 11 & 12*

Now more than ever before, a basic knowledge of business law is an important part of a student's general education, for the law touches just about every individual at one time or another. Students who plan to pursue degrees at a college or university in a business area will need to develop a sound understanding of business law and its application in our everyday lives. This course of study is based on law course offered through Iowa State University, along with information provided from Drake University and its new agriculture law center. Business & Environmental Law will thoroughly look at how our laws and the courts have influenced how we think and act. The course should be useful to students in their future business and educational dealings in real life and college.

## ECONOMICS AND MARKETING PRINCIPLES

*Term: Semester*

*Grade level: 10, 11, 12*

*Prerequisite: None—preference given to 11 & 12*

*Note: Meets Economics requirements*

Economics has a short history but a long past. This course is a MUST for any student who is planning to attend a college or university. It is a topic that must be understood if one pursues a career in areas of banking, business, and marketing. This course will examine how economic decisions and behaviors affect the supply and demand for goods and services, which determines prices, and how prices, in turn, determine the supply and demand of goods and service in our economy. An important goal of this course is to develop in students the ability to reason like economists.

## LANDSCAPING PRINCIPLES AND PRACTICES

*Term: Semester (offered the school year beginning in an odd year)*

*Grade level: 10, 11, 12*

*Prerequisite: None—preference given to 11 & 12*

If you have ever watered a houseplant, mowed a lawn, or cultivated a garden, you have been introduced to horticulture. This class is designed to give the beginning student the opportunity to learn about all types of plants involved in the establishment and maintenance of a landscape. Some areas of study will involve an in depth look at shrubs, trees, flowers, and turf grasses in a landscape plan.

## CAREER SEMINAR

*Term: Semester*

*Grade level: 11, 12*

*Prerequisite: None—preference given to 11 & 12*

Students will learn how to assess their future educational needs beyond high school. Students will look at their own career goals and evaluate the decisions that will determine their future employment, friends, associates, working conditions and residence. In depth evaluations of each individual in the class through computer testing and analysis will assist the student in gaining insight into their strengths and weaknesses and developmental needs. Emphasis involving techniques in securing a job in a competitive society will be evaluated and discussed.

## AGRICULTURAL STUDIES

*Term: Semester (offered the school year beginning in an even year)*

*Grade level: 11, 12*

*Prerequisite: None—preference given to 11 & 12*

Areas of instruction will depend on the students who enroll. Emphasis of this course is on marketing strategies. It is designed to give students a basic understanding of futures marketing options, common marketing jargon and the knowledge to feel comfortable in developing marketing strategies in developing business and personal wealth. Students who will be pursuing degrees in the business area at a college or university after graduation will want to seriously consider taking this course of study.

## INTRO TO PRINCIPLES OF ANIMAL SCIENCE

*Term: Fall Semester*

*Grade level: 10, 11, 12*

*Prerequisite: AFNR but not required*

*Principles of Agricultural Science – Animal* is a foundation-level course designed to engage students in hands-on laboratories and activities to explore the world of animal agriculture. Students experiences will involve the study of animal history, handling, anatomy and physiology. Throughout the course, students will consider the perceptions and preferences of individuals within local, regional and world markets. This is a hands-on course which will involve laboratory investigations and dissections. Students will explore hands-on projects and activities to learn the characteristics of animal science and work on major projects and problems similar to those that animal science specialists, such as veterinarians, zoologists, livestock producers and industry personnel, face in their respective careers. Students will investigate, experiment and learn about documenting a project, solving problems and communicating their solutions to their peers and members of the professional community.

## ADVANCED PRINCIPLES OF ANIMAL SCIENCE

*Term: Spring Semester*

*Grade level: 10, 11, 12*

*Principles of Agricultural Science – Animal* is a foundation-level course designed to engage students in hands-on laboratories and activities to explore the world of animal agriculture. Throughout the course, student will develop a comprehensive Producer's Management Guide for an animal of their choice. Student experiences will involve the study of animal nutrition, reproduction, health, selection and marketing. For example, students will acquire skills in meeting the nutritional needs of animals while developing balanced, economical rations. Throughout the course, student will consider the perceptions and preferences of individuals within local, regional and world markets. Students will explore hands-on projects and activities to learn the characteristics of animal science and work on major projects and problems similar to those that animal science specialists, such as veterinarians, zoologists, livestock producers and industry personnel, face in their respective careers. Students will investigate, experiment and learn about documenting a project, solving problems and communicating their solutions to their peers and members of the professional community.

# ART

## ART SCOPE & SEQUENCE

	9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE
ELECTIVES	2-D Design 3-D Design Multicultural Art	2-D Design 3-D Design Multicultural Art	2-D Design 3-D Design Multicultural Art Printmaking/Graphics* Drawing* Painting* Ceramics**	2-D Design 3-D Design Multicultural Art Printmaking/Graphics* Drawing* Painting* Ceramics** Independent Art Study I & II
*Prerequisite of 2D Design **Prerequisite of one semester of any art class/or permission of instructor				

## 2-D DESIGN

*Term: Semester*  
*Grade Level: 9,10,11,12*  
*Prerequisites: None*

This course provides students with a comprehensive background in the principles of two dimensional design. Color theory, design elements, and grids are a few of the art experiences students will encounter. A number of media will be explored within a two dimensional format. This is an entry level course which provides a solid background for future artistic endeavor. Students who would like to take more advanced courses in the future, but are doubtful of their ability, would benefit from this course.

## 3-D DESIGN

*Term: Semester*  
*Grade Level: 9,10,11,12*  
*Prerequisite: None*

This course provides an introduction to three dimensional design and a broad foundation in the production of sculpture. Students will enjoy sculpting experiences in various media. The project objectives will focus on the elements and principles of good design. This is an excellent entry level course for students who are interested in sculpting in three dimensions and learning more about design.

## DRAWING

*Term: Semester*  
*Grade Level: 11,12*  
*Prerequisites: Successful completion of 2D Design or recommendation of instructor.*

The purpose of this course is to introduce students to various

types of drawing including portraiture, landscape, figure, and still life. Skill development will be the focus as students acquaint themselves with various drawing materials including charcoal, pencil, ink, and pastel. Lectures will analyze various drawing techniques with the balance of class time spent applying new techniques. Students with previous drawing experience as well as the beginner will benefit from this course.

## PAINTING

*Term: Semester*  
*Grade Level: 11,12*  
*Prerequisites: Successful completion of 2D Design or recommendation of instructor.*

This course develops painting skills through the study of master painters, various painting styles, and historic trends. Slides and art prints will serve as guides for the exploration of both traditional and contemporary painting techniques. Students will have the opportunity to create works in acrylic and watercolor paints. The subjects for projects will include portraiture, landscape, figure, and still life. Project objectives will include all aspects of the painting process from the conception of subject matter, to the completion of the finished work. Both realistic and abstract painting styles will be investigated.

## PRINTMAKING/GRAPHICS

*Term: Semester*  
*Grade Level: 11,12*  
*Prerequisites: Successful completion of 2D Design or recommendation of instructor.*

This course examines various printmaking techniques. Projects incorporate traditional methods of graphic production such as woodcut and linoleum block printing as well as more modern applications such as silkscreen and collagraph. Objectives will

investigate the printmaking process from the conception of the idea to the completion of the finished product. Students will be encouraged to explore printing styles from abstract to realistic. Skill development will include investigation in monoprinting, collagraph, woodcut, linoleum block and silk-screen as graphic processes.

## MULTICULTURAL ART

*Term: Semester*  
*Grade Level: 9,10,11,12*  
*Prerequisites: None*

This course is designed to explore and examine cultures from around the world through the study of folk art. Regions are often identified by the craft art and folk art of their people. Students will re-create the craft art of various regions as a means of learning more about the world and its people. Slide presentations and research through group investigation will provide background for the projects.

## CERAMICS

*Term: Semester*  
*Grade Level: 11,12*  
*Prerequisites: Successful completion of one semester of any art class, or recommendation of instructor.*

This course is designed to give students experience in working with earth clay. Students will produce a number of clay projects throughout the year. Methods of construction will include throwing on the wheel, as well as slab and coil construction. Students will be required to master techniques necessary to throw pottery on the wheel as they create both functional and non-functional pottery. Students will familiarize themselves with the processes of firing the kiln and the application of glaze.

## INDEPENDENT ART STUDY I & II

*Term: Semester*  
*Grade Level: 12*  
*Prerequisites: As arranged by instructor.*  
*Lab Fee: Students will be expected to pay some cost of materials.*

Seniors with serious aspirations for an art career may arrange for an independent art study. Students would focus on a portfolio and other requirements for further education in an art field. Senior work will be displayed in the school and community. A course of study must be completed by the student and instructor, and approved by the principal at the start of the semester.

# BUSINESS EDUCATION

## BUSINESS EDUCATION SCOPE & SEQUENCE

	9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE
ELECTIVES	Personal Business Management	Business Communications Computer Applications Personal Business Management	Business Communications Computer Applications Accounting Business Law Personal Business Management Entrepreneurship	Business Communications Computer Applications Accounting Business Law Personal Business Management Entrepreneurship

### ACCOUNTING

*Term: Year*

*Grade Level: 11,12*

*Prerequisites: None*

Accounting covers the fundamentals of double-entry accounting and some computerized accounting. The course is essential for the business student or anyone else who expects to be connected with a business or who, in later life, may use it in the keeping of their own records. Accounting is useful to many workers in the business world; it gives them a better understanding of business and the part they, as a worker, play in business records. Every individual needs knowledge of accounting in order to supply themselves and the government with the necessary information for tax reports.

### BUSINESS COMMUNICATIONS

*Term: Semester*

*Grade level: 10, 11, 12*

*Prerequisite: None—preference given to 11 & 12*

This course of study seeks to teach the importance of good business communication skills needed in the real world of work. Emphasis will be placed on how to design, write and prepare resumes, cover letters, inquiry letters, acceptance letters, rejection letters, good news letters, bad news letters, and memos along with other types of correspondence that are commonly used in the business world. You will find the student syllabus to be a valuable reference guide after completing the course. Students will gain hands on learning and writing experiences with the many types of business correspondence that may someday await them.

### BUSINESS LAW

*Term: One Semester*

*Grade Level: 11,12*

*Prerequisites: None*

The role of young people has expanded in our society as the age of majority has been lowered. This has added rights and responsibilities for individuals. This course explains the legal means for protecting those rights and for meeting the obligations. The study of business law includes the legal requirements of contracts, of negotiable instruments, of tort compensation, of renting and owning property, and of employer-employee relations. The great number of government regulations and consumer protection laws makes us law conscious. The present litigation-prone attitude of society makes knowledge of business law important to everyone. Students will participate in mock trials and have the opportunity to see real courtrooms in action.

### COMPUTER APPLICATIONS

*Term: One Semester*

*Grade Level: 10,11,12*

*Prerequisites: None*

Technology and the Internet are constantly changing with new and exciting programs. This computer course focuses on exposing students to a variety of computer and internet programs that can be used in a variety of circumstances throughout life. Students will increase their knowledge of Microsoft Excel and all of the useful feature it possesses. This course will also look at the exciting changes in Microsoft PowerPoint 2011 to see how presentations can be created to “wow” their audience. Students will then explore a variety of new Internet programs which can assist in research, communication and collaboration. Students will also be exposed to basic web site design during the semester.

### PERSONAL BUSINESS MANAGEMENT

*Term: One Semester*

*Grade Level: 9, 10, 11,12*

*Prerequisite: None*

*Note: Meets Financial Literacy requirements*

This course is designed to be a usable experience toward effective management of personal finances and consumer decisions through an examination of an individual's various roles in the world of business and economics. Upon completion of the course, the student should possess a set of basic tools that can be effectively applied toward decisions in money management, budgets and financial records, banking, computer application of family financial data, economic security, investment choices, insurance and credit management.

### ENTREPRENEURSHIP

*Term: Semester*

*Grade Level: 11,12*

*Prerequisite: None*

Students will learn what entrepreneurship is and how to become an effective entrepreneur. Entrepreneurs are the cornerstone of the American free enterprise system. Students will learn risks of ownership, what new trends affect small business, sources for ideas, and role of technology in today's businesses. Once a marketing plan is developed, establishing a business will be one of the course goals. From this experience, students will learn the importance of working as a team, value of cooperation, commitment and attitude when forming and maintaining a small business venture.

# COMPUTER/TECHNOLOGY

## CAST - COMMUNICATION AND SERVICE TECHNOLOGY SCOPE & SEQUENCE

	9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE
ELECTIVES	Media Technology Service Technology	Media Technology Service Technology	Media Technology Service Technology	Media Technology Service Technology

### MEDIA TECHNOLOGY

*Term: Year*

*Grade Level: 9, 10, 11, 12*

Media Technology is a project-based class focused on all forms of mass media and communication technology. Students will gain experience in Video Production, Photography, Videography, Video/Photo Editing, Mass Media - Digital & Print, Promotions, Social Media and Web Design.

### SERVICE TECHNOLOGY

*Term: Semester*

*Grade Level: 9, 10, 11, 12*

Service Technology is a project-based class that focuses on student-driven service learning projects utilizing a variety of the latest technologies. Students follow their interests to solve problems, serve their community and school, and work with local businesses and organizations.

# ENGLISH LANGUAGE ARTS

## ENGLISH LANGUAGE ARTS SCOPE & SEQUENCE

	9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE
REQUIRED	English I Speech* Reading****	English II Speech*	English III Speech*	Speech*
ELECTIVES		Advanced Speech Drama Play Production***	English Literature Publications** - *** Advanced Speech Drama Play Production*** Technical Writing	English Literature Publications** - *** Advanced Speech Drama Play Production*** Technical Writing
*One semester of Speech must be taken at some point during the four years **Prerequisite - Application and approval ***Not available as an English Credit ****Enrollment limited to teacher and administrative recommendation				
MOST RIGOROUS PLAN	English I Speech	English II Advanced Speech	English III English Literature	Composition I Composition II Fundamentals of Oral Communication

### READING

*Term: Year*

*Grade Level: 9*

*Prerequisite: Teacher and administration recommendation only.*

The course will involve learning strategies to improve reading speed, comprehension, and study skills using fiction and non-fiction materials. Class size will be limited to provide more individualized instruction. **(Not an English credit.)**

### ENGLISH I (Required)

*Term: Year*

*Grade Level: 9*

*Prerequisite: None*

Students will read and write on a daily basis; they will analyze a variety of informational and literary texts to build literacy skills. (Literary texts will include novels, short stories, poetry and drama.) They will examine mentor text to understand author's craft and develop their own writing style. Students will practice the process of revising and editing several times throughout the year to produce more formal pieces. Instructors in English I and U.S. History will collaborate to provide students with opportunity to conduct research and create products that integrate research from multiple sources.



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## ENGLISH II (Required)

*Term: Year*

*Grade Level: 10*

*Prerequisite: None*

Students develop skills in writing and reading through close examination of fiction and non-fiction. Units include short stories, novels, poetry. Also included are opportunities to write personal reflection, reader response, research and poetry. Students are expected to prepare for and participate in frequent class discussions, providing evidence to back their claims.

## ENGLISH III (Required)

*Term: Year*

*Grade Level: 11*

*Prerequisite: None*

Students will use writing and close examination of fiction and nonfiction texts to develop a strong understanding of American literature. Students will be challenged to think critically, analyze a wide variety of texts, express their ideas clearly in writing, and cite textual evidence for support. In addition, students will practice finding and using suitable secondary sources and furthering their understanding of the conventions of MLA format.

## ENGLISH LITERATURE

*Term: One Semester*

*Grade Level: 11,12*

*Prerequisite: None*

This course provides a survey of a few critical early works of literature in England, including such authors as Chaucer and Shakespeare as well as English novels of students' choice. Study includes a focus on cultural and historical periods to deepen understanding of poetry, novels, and plays. Creative and literary writing opportunities and presentation and dramatic projects will be required.

## PUBLICATIONS

*Term: Year*

*Grade Level: 11, 12*

*Prerequisite: Application required*

This course will introduce and further develop students' understanding of journalistic composition and ethics, graphic design, and photography. Students will be staff members of The Prowler, the bi-weekly school newspaper. Students will also manage the production of Creston Community High School's yearbook, the Crest. Through this course, students will participate in all areas of newspaper and yearbook production, including journalistic writing, marketing, fundraising, photography, and layout design. **(Not an English credit.)**

## TECHNICAL WRITING

*Term: One Semester*

*Grade Level: 11,12 (12 given priority)*

*Prerequisite: None*

Technical writing is a course designed to support school-to-work writing. Students will compose written correspondence common with job searches such as resumes and letters of application. They will also compose formal emails, memos, and other workplace writing. The class will also explore the various types of writing and presentation skills required in the workplace or in vocational programs.

## SPEECH (Required)

*Term: One Semester*

*Grade Level: 9,10,11,12*

*Prerequisite: None*

Students will be introduced to various public speaking and communication topics. The course of study will provide an opportunity to gain self-confidence in front of an audience delivering various types of speeches; such as, speeches to entertain, to inform, to demonstrate, and to persuade. Students will also learn how to create desktop presentations using Google Slides.

## ADVANCED SPEECH

*Term: One Semester*

*Grade level: 10,11,12*

*Prerequisite: Speech*

Students will take the skills they acquired in Speech and apply them to more advanced speaking situations. The course will allow students to experience more performance-based speaking in group and individual categories. Topics to be covered will include literary interpretation, broadcasting, storytelling, improvisation, debate, after-dinner speaking, and many others.

## DRAMA

*Term: One Semester*

*Grade Level: 10,11,12*

*Prerequisites: None*

In this course, the students will be introduced to many aspects of drama including theatre history, theatre terminology, theatre etiquette, and acting. Students will read William Shakespeare's *Macbeth* as well as excerpts of other plays. Participation in a variety of vocal and physical warm-ups and performance activities will be required.

## PLAY PRODUCTION

*Term: Semester*

*Grade Level: 10,11,12*

*Prerequisite: None*

The play production student should have an interest in learning more about the behind the scenes work that goes into staging a play. Covered in the course will be: scenery construction, painting, lighting, directing, script analysis, costuming, make-up and publicity. Much practical experience will be gained by working on the All School Play production. **(Not an English credit.)** Due to space and equipment class size is capped.

# FOREIGN LANGUAGE

## FOREIGN LANGUAGE SCOPE & SEQUENCE

	9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE
ELECTIVES	Spanish I	Spanish II*	Spanish III**	Spanish IV***

\*Prerequisite is Spanish I

\*\*Prerequisite of a grade of "C" in Spanish II or recommendation of instructor, counselor, and/or administration

\*\*\*Prerequisite of a grade of "C" in Spanish III or recommendation of instructor, counselor and/or administration

### SPANISH I

*Term: Year*

*Grade Level: 9,10,11,12*

*Recommendation: English grade of C or better*

Spanish I provides an introduction to the language and culture of the Spanish speaking world. Students gain an awareness of the similarities and differences between English and Spanish. Students will obtain a basic foundation in listening, speaking, reading, and writing Spanish.

### SPANISH II

*Term: Year*

*Grade Level: 10, 11, 12*

*Prerequisite: Successful completion of Spanish I. It*

*is strongly recommended that the student have a grade of "C" or better in Spanish I*

Spanish II expands the student's use of the Spanish language in speaking, listening, reading, and writing by a review of concepts introduced in Spanish I and the addition of new verb tenses and vocabulary. Students will be introduced to irregular verbs, commands, and other grammatical structures. This course will carry a large conversational component so students begin to

get used to speaking in and listening to the language. As a result, the students' English grammar and vocabulary will be strengthened. The course will also focus on social injustices within the Spanish-speaking world and make interdisciplinary connections to literature and social studies.

### SPANISH III/IV

*Term: Year*

*Grade Level: 11,12*

*Prerequisite: Successful completion of Spanish II or III. It is strongly recommended that the student have a grade of "C" or better in Spanish II or Spanish III*

Spanish III/IV expands the student's use of the Spanish language in speaking, listening, reading, and writing. We will review verb tenses learned in Spanish I and Spanish II. New vocabulary and complex verb tenses will be introduced throughout the course. The emphasis on this course is oral proficiency. We will also look at the Spanish culture throughout the world. The Spanish language is spoken in many parts of the world, and we will focus on Spanish culture in Latin America, Spain, and in the United States. The course will focus on social injustices within the Spanish-speaking world and make interdisciplinary connections to literature and social studies.

# HEALTH

## HEALTH SCOPE & SEQUENCE

	9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE
ELECTIVES	Personal Health Health Issues	Personal Health Health Issues	Personal Health Health Issues	Personal Health Health Issues

### PERSONAL HEALTH

*Term: One Semester*

*Grade Level: 9,10,11,12*

*Prerequisite: None*

This course will provide information you need to promote your own health. Topics covered will include: personal care, digestion and excretion, skeletal and muscular system, cardiovascular

and respiratory health, nutrition (including nutritional needs and eating disorders), relationships including friendship and dating, reproduction (including pregnancy prevention), pregnancy and birth, human sexuality, survivor skills and skills for living (including goal setting and decision making).

### HEALTH ISSUES

*Term: One Semester*

*Grade Level: 9,10,11,12*

*Prerequisite: None*

This course will provide the student an opportunity to gain information about the following topics: Substance use and abuse (including drug use as medicines, drug misuse and abuse in our society), alcohol and alcoholism, tobacco and its effect on health, mental and emotional health (including personality development, prevention and control of infectious diseases (including sexually transmitted disease and AIDS), concerns of adolescence (date rape, abuse, etc.), self esteem, positive expression of emotions, stress management), safety and first aid (including basic safety for home, work, and recreation); first aid for common emergencies; consumer health (including the Health Care System-being a wise health consumer and the public health system) and environmental health.

# FAMILY & CONSUMER SCIENCE

## FAMILY & CONSUMER SCIENCE SCOPE & SEQUENCE

	9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE
ELECTIVES	Foods I Foods II	Family Development Housing Foods I Foods II Culinary Arts Textiles Construction	Family Development Housing Independent Living Foods I Foods II Culinary Arts Textiles Construction	Family Development Housing Independent Living Foods I Foods II Culinary Arts Textiles Construction

### FAMILY DEVELOPMENT

*Term: One Semester*  
*Grade Level: 10,11,12*  
*Prerequisite: None*

The Child Care and Development class will help students prepare for parenting and/or a career working with children. Subject matter is selected to help students make responsible decisions about parenting and career choices. The students will examine important issues related to raising healthy children and building positive relationships with children in the home and work place. Hands on experiences, child visits, student projects and guest speakers supplement classroom experiences and help individualize the course to meet student needs.

### HOUSING

*Term: One Semester*  
*Grade Level: 10,11,12*  
*Prerequisite: None*

An opportunity to acquire the knowledge and ability to plan, select, buy, use and care for the home, furnishings and equipment and to explore interests in a home furnishings career. Emphasis is placed on: changing housing needs of single persons, couples, and families; factors affecting choice of housing, furnishings and equipment, designs and construction of furniture; characteristics of materials used in floor, wall covering, upholstery, room planning and selection of equipment.

### FOODS I

*Term: First Semester*  
*Grade Level: 9,10,11,12*  
*Prerequisite: None*

Students need to acquire basic cooking skills and techniques to prepare themselves for their future. This course will cover the basic skills in preparing grains, vegetables, and fruits. Students will study nutrition, diets, food science, and guidelines for making food choices that will enhance growth and development. Emphasis will be placed on safety and sanitation, use of kitchen equipment and utensils and reading and understanding recipes. \*Be sure to come with an appetite, as learning how to cook involves consuming the food to understand how ingredients and cooking methods affect the product.

### FOODS II

*Term: Second Semester*  
*Grade Level: 9,10,11,12*  
*Prerequisite: Foods I*

This class will continue to build on the central themes developed in Foods I. Students will learn more advanced food preparation skills in dairy, eggs, and meats, and continue to study nutrition and food choices and how they affect our lives. Important issues that affect the food industry will be explored as well as foods across the varying cultures and countries. \*Be sure to come with an appetite, as learning how to cook involves consuming the food to understand how ingredients and cooking methods affect the product.

### CULINARY ARTS

*Term: First Semester*  
*Grade Level: 10,11,12*  
*Prerequisite: Foods I and II*

An in-depth study of careers in baking and pastry arts. Students will analyze nutritional needs, select foods for customer demographics, understand and demonstrate food safety and sanitation procedures, analyze food costs, and understand advanced methods in food preparation and storage.

### INDEPENDENT LIVING

*Term: One Semester*  
*Grade Level: 11,12*  
*Prerequisite: None*  
*Note: Meets Financial Literacy requirements*

This course includes work in food preparation, nutrition, basic sewing and mending, clothing selection and care, grooming, care of the home, setting goals, selection of housing, management of time, money and resources. The course is designed to help students acquire the skills and knowledge to live independently.

### TEXTILES CONSTRUCTION

*Term: Second Semester*  
*Grade Level: 10,11,12*  
*Prerequisite: None*

This course will study design, apparel, textiles, and construction, with a varied focus on human services and consumer resources. This course will introduce students to basic sewing, serger, and pressing equipment while evaluating practices related to the human, economic, and environmental resources. Students will complete individual project-based assessments to showcase mastery of concepts.

# INDUSTRIAL TECHNOLOGY

## INDUSTRIAL TECHNOLOGY SCOPE & SEQUENCE

	9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE
ELECTIVES	Drafting Fundamentals Agricultural Woodworking Fundamentals Computer Aided Drafting	Drafting Fundamentals Agricultural Woodworking Fundamentals Woodworking Technology* Agricultural Metalworking Technology Computer Aided Drafting Architectural CAD Construction Technology** Agricultural Welding Fundamentals	Drafting Fundamentals Agricultural Woodworking Fundamentals Woodworking Technology* Construction Technology** Carpentry I/SWCC Agricultural Metalworking Technology Computer Aided Drafting Mechanical/Technical CAD*** Architectural CAD Agricultural Welding Fundamentals	Drafting Fundamentals Agricultural Woodworking Fundamentals Woodworking Technology* Construction Technology** Carpentry I/SWCC Carpentry II/SWCC Agricultural Metalworking Technology Computer Aided Drafting Mechanical/Technical CAD*** Architectural CAD Agricultural Welding Fundamentals

\*Prerequisite is successful completion of Woodworking Fundamentals with a grade of "C"

\*\*Prerequisite of Woodworking Fundamentals or instructor permission

\*\*\*Prerequisite of Computer Aided Drafting

### DRAFTING FUNDAMENTALS

*Term: Semester*

*Grade Level: 9,10,11,12*

*Prerequisite: None*

The semester long course is developed around learning to identify and use the tools used in drafting properly. Each student will be expected to complete a variety of assigned drawings and exercises. Attention must be paid to accuracy and neatness, two musts in the field of drafting.

### AGRICULTURAL WOODWORKING FUNDAMENTALS

*Term: Year*

*Grade Level: 9,10,11,12*

*Prerequisite: None*

Students will develop and practice basic woodworking techniques by completing a series of shop exercises and small projects. Students will become familiar with traditional hand tools used in woodworking in addition to portable and stationary power tools. Focus is placed on safe and correct use of tools. Time is split between the classroom and the workshop.

### WOODWORKING TECHNOLOGY

*Term: Year*

*Grade Level: 10,11,12*

*Prerequisite: Woodworking Fundamentals*

Students will further develop skills learned in woodworking fundamentals through a variety of activities that can include a group or mass production project. Student will select and build a project of their own choosing (with instructor approval) at their own expense. This class also gives students the opportunity to explore career opportunities in woodworking and related fields.

### CONSTRUCTION TECHNOLOGY

*Term: Semester*

*Grade Level: 10,11,12*

*Prerequisite: Woodworking Fundamentals or recommendation of Instructor.*

Construction Technology provides the student with an opportunity to construct carpentry type projects and study the construction industry. Projects will include, but not be limited to construction of basic structures such as utility sheds and other projects approved by the Instructor.

### AGRICULTURAL METALWORKING TECHNOLOGY

*Term: Year*

*Grade Level: 10,11,12*

*Prerequisite: None*

This course will include basic metal, foundry, sheet metal and machine shop. A series of skills exercises are required for each area. For the more capable students who finish the skills exercises early, an opportunity for projects or research problems are afforded them.

### AGRICULTURAL WELDING FUNDAMENTALS

*Term: Semester*

*Grade Level: 10,11,12*

*Prerequisite: None*

Presents a broad picture of welding as it is today. For the student, it offers an opportunity to increase knowledge and proficiency in becoming a welder. Students will use welding equipment as: Shielded Metal Arc Welding, Gas Metal Arc Welding, Oxyacetylene Welding and Oxyacetylene/Propane Cutting Operations.

### COMPUTER-AIDED DRAFTING

*Term: Semester*

*Grade Level: 9,10,11,12*

*Prerequisite: Drafting Fundamentals or permission of instructor.*

The purpose of the course is to provide students with an understanding of the features, limitations, and considerations associated with the operation of a computer-aided design/drafting (CAD) system. Students will gain valuable hands-on experience using the Solid Works software, computers, input of a mouse, and output devices such as raster printers. Uses of the CAD system demonstrated by successfully completing selected drawing problems.

### MECHANICAL/TECHNICAL CAD

*Term: Year*

*Grade Level: 10,11,12*

*Prerequisite: Successful completion of Computer-Aided-Drafting*

This course is an extension of the CAD experience introduced in the computer-aided-drafting course. The student will review the CAD introduction. Advanced techniques of the Solid Works program will be covered.

## ARCHITECTURAL CAD

*Term: Semester*

*Grade Level: 10,11,12*

*Prerequisite: None*

This course is designed to introduce architectural CAD through the use of Chief Architect software. This course is aimed at students in technology education, tech prep, or introductory

level architectural CAD. The course is divided into a series of projects developed to help students explore and appreciate three-dimensional architectural design and drawing.

# MATHEMATICS

## MATHEMATICS SCOPE & SEQUENCE

	9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE
ELECTIVES	Algebra I Algebra II Geometry Algebra I Triumphs Algebra II Triumphs Geometry Triumphs	Algebra I Algebra II Geometry Trigonometry Probability & Statistics Precalculus Algebra I Triumphs Algebra II Triumphs Geometry Triumphs	Algebra I Algebra II Geometry Trigonometry Probability & Statistics Precalculus Algebra I Triumphs Algebra II Triumphs Geometry Triumphs Calculus Discrete Math	Algebra I Algebra II Geometry Trigonometry Probability & Statistics Precalculus Algebra I Triumphs Algebra II Triumphs Geometry Triumphs Calculus Discrete Math
MOST RIGOROUS PLAN	Geometry Algebra II	Probability & Statistics Trigonometry Precalculus	Calculus Discrete Math Calculus I Statistics	Calculus II Calculus III

It is suggested that college bound students complete four years of math-one in each year of high school.

## ALGEBRA I

*Term: Year*

*Grade Level: 9,10,11,12*

Algebra is an extension of arithmetic and the foundation of all higher mathematics. Problems relating to science, commerce and everyday activities make algebra a living subject. Students are introduced to the language of algebra, absolute value, equations and inequalities in word problems. First semester ends with graphing linear equations. Second semester continues with linear equations and inequalities. The student then studies exponents, radicals, and polynomials. Frequent references to topics in arithmetic give the student a solid foundation for the study of high school mathematics subjects, which follow.

## ALGEBRA II

*Term: Year*

*Grade Level: 9,10,11,12*

*Prerequisite: Successful completion of Algebra I*

In Algebra II the students will review algebraic fundamentals,

which were introduced in Algebra I. The first semester will cover rational equations, complex numbers, quadratic equations, polynomial functions. In the second semester powers, roots, exponential and logarithmic functions, polynomial equations, topics of equations and inequalities, relations, functions, graphs, systems of equations, matrices, determinants, statistics, probability and trigonometry. The skills of problem solving and practical applications will be introduced and practiced throughout the course. Algebra II is essential for success in the higher-level classes of trigonometry, probability and statistics, pre-calculus, and college level math classes.

## GEOMETRY

*Term: Year*

*Grade Level: 10, 11,12*

*Prerequisite: Successful completion of Algebra I*

Geometry includes a study of measures, similar and congruent triangles, parallels, quadrilaterals, polygons and circles. Students

use examples and hands-on activities to develop concepts. The two column formal proof is studied throughout the book in chapter exercises.

## TRIGONOMETRY

*Term: Semester*

*Grade Level: 10,11,12*

*Prerequisite: Successful completion of Algebra II*

The course is a comprehensive study of trigonometry with a balanced coverage of the theory, skills, and applications needed to build a strong foundation for more advanced mathematics courses. The course will introduce the basic trigonometric functions and properties of them. It will also cover vectors and the relationship they have to trigonometry.

## PROBABILITY AND STATISTICS

*Term: Semester*

*Grade Level: 10,11,12*

*Prerequisite: Successful completion of Algebra II*

This course begins with an informal look at probability and statistics with some simple applications. Then a careful look at counting is used to develop the topics of permutations, combinations, and binomial theorem. This leads to a more formal, axiomatic approach to probability, and more complex problems are solved by this formal approach. Graphs and various statistical measures for reporting and analyzing data are considered, as are the binomial and the normal distributions. Knowledge gained is used to estimate the characteristics of a population from a sample and to make decisions based on statistical methods.

## PRECALCULUS

*Term: Year*

*Grade Level: 11,12*

*Prerequisite: Successful completion of Algebra II and*

*Trigonometry or currently enrolled in First Semester*

*Trigonometry*

Precalculus is a subject numerous students will have to take when pursuing their course of study at a college or university. Precalculus is a course which will prepare one for calculus by providing the student with the essential concepts and skills of

algebra and the study of functions and their graphs. Also covered are linear functions, quadratic functions, polynomial functions, rational functions, exponential functions, logarithmic functions, trigonometric functions, inverse functions, composition of functions, natural logarithm functions, and complex numbers. An emphasis will be placed on problem solving and the use of technology.

### ALGEBRA I TRIUMPHS

*Term: Year*

*Grade Level: 9,10,11,12*

*Prerequisite: None*

Algebra I Triumphs is a supplemental class to Algebra I. This course is designed to build and strengthen Algebra skills that are necessary for Algebra I. The class focuses on study strategies and skills that will help the student succeed in their math course. (Not a Math credit) *This course will be graded on a Pass or Fail basis.*

### ALGEBRA II TRIUMPHS

*Term: Year*

*Grade Level: 9,10,11,12*

*Prerequisite: None*

Algebra II Triumphs is a supplemental class to Algebra II. This

course is designed to build and strengthen Algebra skills that are necessary for Algebra II. The class focuses on study strategies and skills that will help the student succeed in their math course. (Not a Math credit) *This course will be graded on a Pass or Fail basis.*

### GEOMETRY TRIUMPHS

*Term: Year*

*Grade Level: 9,10,11,12*

*Prerequisite: None*

Geometry Triumphs is a supplemental class to Geometry. This course is designed to build and strengthen Algebra and Geometry skills that are necessary for Geometry. The class focuses on study strategies and skills that will help the student succeed in their math course. (Not a Math credit) *This course will be graded on a Pass or Fail basis.*

### DISCRETE MATH

*Term: Semester*

*Grade Level: 11, 12*

*Prerequisite: Successful completion of Algebra II*

Discrete mathematics may be described as the study of mathematical properties of sets and systems that have a countable (discrete) number of elements. The main focus is

problem solving in a discrete setting. In Discrete Mathematics students will learn a particular set of mathematical facts and how to apply them. The course will teach students how to think logically and mathematically. Five main topics will be covered: mathematical reasoning, combinatorial analysis, discrete structures, algorithmic thinking and applications and modeling. Techniques that are not considered in the current traditional courses of algebra, geometry, and calculus will be utilized. As students solve problems, they will analyze and determine whether or not a solution exists (existence problems), investigate how many solutions exist (counting problems), and focus on finding the best solution (optimization problems). Connections will be made to other disciplines.

### CALCULUS

*Term: Semester*

*Grade Level: 11, 12*

*Prerequisite: Pre-Calculus*

Calculus courses include the study of derivatives, differentiation, integration, the definite and indefinite integral, and applications of calculus. Typically, students have previously attained knowledge of pre-calculus topics (some combination of trigonometry, elementary functions, analytic geometry, and mathematic analysis).

## MUSIC - INSTRUMENTAL / VOCAL

### MUSIC - INSTRUMENTAL / VOCAL SCOPE & SEQUENCE

	9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE
ELECTIVES	Mixed Choir Women's Choir Broadway Choir** Advanced Mixed Choir*** Symphonic Band Jazz Improvisation Music Appreciation I Music Appreciation II	Mixed Choir Women's Choir Broadway Choir** Advanced Mixed Choir*** Symphonic Band Jazz Improvisation Music Appreciation I Music Appreciation II	Mixed Choir Women's Choir Broadway Choir** Advanced Mixed Choir*** Symphonic Band Music Theory* Jazz Improvisation Music Appreciation I Music Appreciation II	Mixed Choir Women's Choir Broadway Choir** Advanced Mixed Choir*** Symphonic Band Music Theory* Jazz Improvisation Music Appreciation I Music Appreciation II

\*Prerequisite is that student must be a member of the Music Department, \*\*Fall Semester, \*\*\*Spring Semester

### SYMPHONIC BAND

*Term: Year*

*Grade Level: 9,10,11,12*

*Prerequisite: None*

Consists of all students involved in the Instrumental Music Program. This is the primary performing group and is the top priority of the program. Students that do not play an instrument but would still like to be involved in the Instrumental Program are asked to take lessons for a minimum of one year on their chosen instrument before entering the Symphonic Band. During the first quarter of the year, this group makes up the Panther Marching Band. The marching band performs for all

home football games and participate in the IHSMA State Marching Band Festival, as well as other selected field competitions.

Other Instrumental Activities:

*Marching Band* performs for all home football games and local parades. The band plays for pep meetings during the football season and participates in the state marching band contest as well as other selected field competitions.

*Pep Band* - All members of the Symphonic Band are encouraged to participate in the Pep Band during the winter sports season. Although not required as part of the class, attendance is required to receive a letter in Band.

*Jazz Ensemble* - The Jazz Band uses and instrumentation of five to seven saxophones, four to five trumpets, four to five trombones, piano, bass, and drums. This group participates in the IHSMA State Jazz Festival as well as other selected Jazz competitions and performs at two home concerts.

*Southwest Iowa Honor Marching Band* - On a two-year rotating schedule, band members are invited to audition for the S.W.I.H.M.B. and to participate in a bowl game parade. Selected members are expected to be active in the C.H.S. Band Program and be a student of good standing. Auditions are similar to that of the All-State Band & Orchestra. Once accepted, members are expected to abide by all rules and regulations of the S.W.I.H.M.B. and to attend all rehearsals.

*Soloists And Ensembles* - As individual players develop they are urged to become soloists and to participate in various small groups. In addition to the groups previously mentioned there are many brass and woodwind ensembles formed for participation in State Solo and Ensemble Contest. Soloists may also audition for membership in the All-State Band or Orchestra in the fall.

### JAZZ IMPROVISATION CLASS

*Term: One Semester*

*Grade Level: 9,10,11,12*

*Prerequisite: A member of Symphonic Band*

In Jazz Improvisation Class, students will learn the basic elements of improvisation. Through the use of Smart Music and other computer aids, the student will be exposed to and play in the different jazz styles, theory, and learn some of the history behind them. This class will be open to all instrumental music students.

## MUSIC APPRECIATION I

*Term: Semester*

*Grade Level: 9,10,11,12*

*Prerequisite: None - Do not have to be a member of the Music Department*

An exploratory class which connects the history and elements of music with World History, Art History and Architecture. Students will discuss elements from 600AD to the present.

## MUSIC APPRECIATION II

*Term: Semester*

*Grade Level: 9,10,11,12*

*Prerequisite: Successful completion of Music*

*Appreciation I. Do not have to be a member of the Music Department*

A more indepth look at music and musical styles. Starting with Modern serious music, the history of Jazz going back in time to recognize and analyze the specific styles of individual composers. An emphasis will be placed on listening, research and presentations

## MUSIC THEORY

*Term: Year*

*Grade Level: 11,12*

*Prerequisite: Must be a member of the Music Department*

Music Theory, although open to all music students, is a course for students who wish to pursue music as a career either as a teacher or professional. Music Theory is the study of how music is put together, including such basics as scales, intervals, and inversion of chords and progresses all the way through four-part harmony, form and counterpoint and analyzing music. Throughout the course of study, composing original melodies and harmonizing them is used to help the student

better understand each phase of music studied and the total concept of how music is put together. Students in the last semester will have hands on experience in working with computerized music composition and performance through the use of Finale and other MIDI technology.

## MIXED CHOIR

*Term: Year*

*Grade Level: 9,10,11,12*

*Prerequisite: None*

The mixed choir performs a variety of popular and traditional musical literature. Focus is on developing the skills of pitch matching, part singing, tone production and collaboration. Mixed choir performs at the Winter and Pops Concerts and may have additional outside performances. No audition or singing experience is required for admission to this choir.

## WOMEN'S CHOIR

*Term: Year*

*Grade Level: 9,10,11,12*

*Prerequisite: Selection made by instructor*

CCHS Women's Choir performs both classical and popular treble clef choir literature at the Winter and Spring Concerts, Large Group Contest and Pops Concert. Singers are also encouraged to participate in State Solo/Ensemble Contest if they wish. The focus of our work is tone production, music literacy and part singing. Admission to Women's Choir is by director recommendation or audtion.

## BROADWAY CHOIR

*Term: Fall Semester*

*Grade Level: 9,10,11,12*

*Prerequisite: Selection made by instructor*

The Broadway Choir produces the Fall musical at CCHS. Responsible, mature and motivated students with strong skills in the areas of group communication, singing, acting and dancing, collaborate to perform a Broadway musical for an audience in November. Evening rehearsals in October and early November are required and graded. Students accepted must have strong teamwork skills and the ability to take direction. The final show is adjudicated by the Iowa High School Musical Theater Association allowing for the opportunity for individual and group performance awards. Broadway Choir also preforms in the CCHS Winter Concert in December. Admission to Broadway Choir is by director recommendation or by audition and interview.

## ADVANCED MIXED CHOIR

*Term: Spring Semester*

*Grade Level: 9,10,11,12*

*Prerequisite: Selection made by instructor*

CCHS Advanced Mixed Choir focuses primarily on classical choir literature. The choir performs at the Spring Concert, Large Group Contest, and Pops Concert. Singers are also encouraged to participate in State Solo/Ensemble Contest. The group is an advanced level choral ensemble and the expectation is for a high level of focus and effort during rehearsal and a willingness to explore challenging classical choral literature. Admission to Advanced Mixed Choir is by director recommendation or audition and is based on music literacy and singing skills.

# PHYSICAL EDUCATION

## PHYSICAL EDUCATION SCOPE & SEQUENCE

	9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE
REQUIRED	Physical Education *	Physical Education *	Physical Education *	Physical Education *
ELECTIVES	Weight Training and Fitness**	Weight Training and Fitness**	Weight Training and Fitness**	Weight Training and Fitness**

\*One semester required each year

\*\*This can be taken in place of PE to fulfill the PE requirement.

## PHYSICAL EDUCATION (Required)

*Term: One Semester*

*Grade Level: 9,10,11,12*

*Prerequisite: None*

Physical Education is a one semester per year requirement for all students. Students will gain knowledge concerning the importance of lifetime fitness and leisure activities. Students will be tested at the beginning and end of each semester in four fitness areas which include: body composition, muscular

strength and endurance, flexibility, and cardiorespiratory fitness. Students will participate in a variety of lifetime fitness and leisure activities. Fitness workouts include aerobic, muscular, and flexibility activities. Leisure games and sports include individual and group activities using indoor, outdoor, and community facilities.

All students must dress appropriately for each physical education class. Required dress consists of black or red shorts and a black or red t-shirt or sweat shirt, along with athletic type tennis

shoes. Designs and logos must be appropriate for school wear. Students with a medical excuse will do written assignments from the Sportfolio Program for its duration. Optional padlock rental is \$2.00 and when lock is returned at the end of semester, \$1.00 will be refunded.

## WEIGHT TRAINING AND FITNESS

*Term: Semester*

*Grade Level: 9,10,11,12*

*Prerequisite: None*

This course is open to all students who wish to improve their level of physical fitness, primarily in terms of strength development and cardiovascular fitness. Athletes will develop, enhance, and harness their power for top performance. Students will discover how to increase their speed, endurance, and agility. They will also learn popular techniques used in a variety of lifts to increase strength and power. Required dress consists of black or red shorts and a black or red t-shirt or sweat shirt, along with athletic type tennis shoes.

# SCIENCE

## SCIENCE SCOPE & SEQUENCE

	9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE
REQUIRED	Physical Science	Biology	Unified Science or Chemistry*	
ELECTIVES	AFNR (Ag. Dept.)	Natural Resources and Environment Intro to Plant Science Advanced Plant Science	Physics** Natural Resources and Environment Intro to Plant Science Advanced Plant Science	Human Anatomy and Physiology Chemistry* Physics** Natural Resources and Environment Intro to Plant Science Advanced Plant Science
*Prerequisites: Physical Science, Algebra I, Geometry (Algebra II recommended) **Prerequisites: Physical Science, Algebra I & II, Geometry				
MOST RIGOROUS PLAN	Physical Science	Biology Natural Resources and Environment	Chemistry* Physics**	Intro to Plant Science Advanced Plant Science Human Anatomy and Physiology

### PHYSICAL SCIENCE (Required)

*Term: Year*

*Grade Level: 9*

*Prerequisite: None*

Physical Science investigates the process of Science as Inquiry. In mastering these procedures, students learn Earth and space concepts, the physics of motion and forces, as well as the physical and chemical nature of interactions involving energy and matter. Students will be expected to conduct labs, submit laboratory reports and complete independent research to finish the course.

### BIOLOGY (Required)

*Term: Year*

*Grade Level: 10, 11, 12*

*Prerequisite: None*

Biology is the study of life; its origins, development and characteristics. In Biology, students will study specific areas related to the cell, the molecular basis of heredity, biological evolution, the interdependence of organisms, matter, energy and organization in living things.

### UNIFIED SCIENCE (Required or Chemistry)

*Term: Year*

*Grade Level: 11, 12*

*Prerequisite: Physical Science*

Unified Science utilizes Science as Inquiry in order to investigate Chemistry concepts. These concepts include structure of atoms, properties and structure of matter, chemical reactions, increase in disorder and conservation of energy. Procedures include laboratories and written summaries of those activities.

### CHEMISTRY (Required or Unified Science)

*Term: Year*

*Grade Level: 11, 12*

*Prerequisite: Physical Science, Algebra I, Geometry or Alg II*

Chemistry is the study of matter and the changes it undergoes. Main topics include chemical symbols, formulas, equations, balancing equations, types of chemical reactions, quantum theory, periodic table, the mole, and organic chemistry. Many labs and activities help to reinforce basic concepts and allow experimentation. Strongly recommended for those going to college, especially in a science, engineering, or health related field.

### PHYSICS

*Term: Year*

*Grade Level: 11, 12*

*Prerequisite: Physical Science, Algebra I & II, Geometry*

Physics is the study of matter, energy, and their relationship. Main topics include kinematics (distance, time, velocity, acceleration), acceleration due to gravity (free fall), forces, vectors, inclined planes, circular motion, projectiles, gravity, planet orbits, cosmology (origin of the universe), and electricity if time allows. Laboratories include the use of stopwatches, hovercraft, dynamics carts, toy dune buggies, computers with motion detectors, photogates, force probes, and super pulleys. Recommended for those going to college, especially in a science, engineering, or health related field.

### HUMAN ANATOMY AND PHYSIOLOGY

*Term: Year*

*Grade Level: 12*

*Prerequisite: Successful completion of Biology (Chemistry recommended)*

This course is designed for those students considering careers in physical education, nursing, medicine, and other health related fields. The content of the course will be an in-depth study of the organ system of man. This will include the following systems: Skeletal and Muscular, Nervous, Digestive, Respiratory, Circulatory, Endocrine, Reproductive, Integumentary, Cell Specialization, Excretory, Immune, and Lymphatic Systems. The course will end with a five (5) week dissection of the systems in the mink.

### NATURAL RESOURCE AND ENVIRONMENT

*Term: Semester*

*Grade level: 10, 11, 12*

*Prerequisite: None*

Environmental Science is designed to introduce students to the major ecological concepts and environmental issues that affect the world in which they live. Students will learn about technological developments that have created environmental problems as well as technologies that are helping to solve them. This course offers students the opportunity to see firsthand how people impact their environment. Environmental Science will demonstrate how the human population is affecting future conservation efforts, and how to manage renewable resources to assure adequate supplies in a fast growing global environment.



# SOCIAL STUDIES

## SOCIAL STUDIES SCOPE & SEQUENCE

	9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE
REQUIRED	US History	World History	Economics	Government
ELECTIVES		Contemporary Affairs Sociology Modern World History	Contemporary Affairs Sociology Modern World History Street Law	Contemporary Affairs Sociology Modern World History Street Law

### UNITED STATES HISTORY (Required)

*Term: Year*

*Grade Level: 9*

*Prerequisite: None*

This course will examine the history of the United States from the late 1800's to the present day. Students will analyze the advantages and disadvantages associated with domestic and foreign expansion as well as identify the causes and consequences of WWI, the Great Depression and WWII. The structure and patterns of change in the country's economic and governmental systems will be studied as well as the relationships established in our society. Students will make connections between past and present events and understand how this nation and others are now globally interdependent.

### WORLD HISTORY (Required)

*Term: Year*

*Grade Level: 10*

*Prerequisite: 10th grade standing*

The unique and common features, themes, and events from world history that have contributed to the modern world will be examined. Topics include geography, history, religions, values systems, politics, economics, technology, global interaction, art, literature, and individuals. Units are selected from early civilizations of Africa and Asia; empires of the ancient world of India, China, Greece, Rome, and the Americas; regional civilizations of Byzantine, Russia, the Muslim world, East Asia, and the kingdoms of Africa, and the global age of the Enlightenment and the American revolution to the present.

### GOVERNMENT (Required)

*Term: One Semester*

*Grade Level: 12*

*Prerequisite: None*

An overview of American government, the institutions and the ideology. Special attention is given to the aspects of government, which exert influence on the "average" American.

### CONTEMPORARY AFFAIRS

*Term: Semester*

*Grade Level: 10, 11, 12*

*Prerequisite: Successful completion of US History*

This course will enable students to study political, economic, and social issues facing the world. Contemporary Affairs will focus on current issues, examine selected issues throughout the 20th century, and look at historical causes or possible solutions.

### SOCIOLOGY

*Term: One Semester*

*Grade Level: 10, 11, 12*

*Prerequisite: None*

Sociology is the scientific study of human behavior within groups. The course includes units on culture, socialization, social organization, and social problems.

### ECONOMICS (Required)

*Term: One Semester*

*Grade Level: 11*

*Prerequisite: None*

This course will give students a greater understanding of economics ranging from the viewpoint of the individual consumer and business to the global economy. Specific units will cover microeconomic issues such as the law of supply and demand, factors of production and the business cycle. Macroeconomic issues will include money and banking, monetary and fiscal policy international trade and comparative economic systems. The course relates history, politics and personal finance to the study of economics. The current ups and downs in the economy make this an exciting and relevant course.

### MODERN WORLD HISTORY

*Term: One Semester*

*Grade Level: 10, 11, 12*

*Prerequisite: None*

This course will focus on global relationships since the end of WWII. Students will study the most influential leaders and events that have shaped societal changes, conflicts and the geography of the world. Economic and political trends as well as environmental and health challenges of the past will be compared to recent circumstances to determine patterns in the adaptations of societies in the modern world.

### STREET LAW

*Term: One Semester*

*Grade Level: 11, 12*

Students learn substantive information about law, democracy, and human rights in society. It is an application of legal concepts as they apply in everyday life. Students will be engaged in a variety of activities to better understand their rights and responsibilities as citizens.

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## CAREER DEVELOPMENT

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### **IJAG I (Iowa's Jobs for America's Graduates)**

*Term: Year*

*Grade Level: 11, 12*

*Prerequisite: None*

Introductory career preparation program that provides instruction in exploring personal strengths and weaknesses. Students will work to build strengths in academic areas, time management, personality and temperament, communication models for personal and career use and work to understand the relationship between personal actions and consequences that follow. Students will make connections to career interest, ability, and aptitude areas to begin determining their career goal. The program format involves individual and team activities/projects to demonstrate IJAG core competency attainment. Guest speakers will be a regular part of the course and students will be involved in community service experiences.

### **IJAG II (Iowa's Jobs for America's Graduates)**

*Term: Year*

*Grade Level: 12*

*Prerequisite: None*

*Recommendation: Successful completion of IJAG I*

Advanced career preparation program that provides instruction in employability/job attainment skills and work survival skills. Students will continue self-study on career options, with emphasis on post-secondary planning. The format involves individual and team activities/projects to demonstrate IJAG core competency attainment. Guest speakers will be a regular part of the course and students will be involved in community service experiences. All seniors that are enrolled in the program will enter into follow-up after graduation. In follow-up, students are monitored for 12 months in their transition from high school to post-secondary education, employment, and the military.

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## VOLUNTEER SERVICES

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### **S.O.S. (STUDENTS OF SERVICE)**

*Term: One Semester*

*Grade Level: 12*

*Prerequisite: Senior Status*

SOS is designed for seniors to complete community service. Students may work as tutors or mentors, as a helper in the high school office, guidance office or media center, or other sites as

approved. Students work with a supervisor and attendance is a priority. Other requirements include keeping a journal and completing a reaction paper at the conclusion of the semester.

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# SWCC POST SECONDARY CLASSES

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## **AUTOMOBILE MECHANICS I (SWCC)**

*Term: Year (4 blocks/semester)*

*Grade Level: 11, 12*

*Prerequisites: None*

This course actually includes six courses taught at SWCC in the first year of the automobile mechanics program. Instruction is provided in the selection and use of mechanics tools and precision measuring devices. Practical, hands-on activities with automotive engines and shop safety will be emphasized. Following this will be instruction in theory and operation of automotive electrical circuits. Safety, meters, and service information will be emphasized. The third segment is designed to provide instruction in the diagnosis, repair, and service of electrical and electronic components found on current vehicles. In the second semester, instruction will be provided in the theory of operation and service procedures of automotive braking systems, the theory of operation and service procedures of automotive alignment and suspension systems, and the theory of operation of auto air conditioning and heating systems. Students will also learn how to diagnose and service auto air conditioning and heating systems. Students will receive eight high school credits upon successful completion of the course and 20 credits at SWCC.

## **AUTOMOBILE MECHANICS II (SWCC)**

*Term: Year (4 blocks/semester)*

*Grade Level: 12*

*Prerequisites: Automobile Mechanics I*

This course actually includes five courses taught at SWCC in the second year of the automobile mechanics program. Instruction will introduce the students to basic fuel system principles, which will include study of theory and hands on experience cleaning, repairing, and adjusting of automotive fuel systems. Instruction in the theory and operation of the four stroke automotive engine and repair of cylinder heads will follow. The first semester will conclude with instruction in the proper diagnosis and repair of engine malfunctions. Students will learn diagnostic procedures using modern, high tech equipment and will follow through with the actual adjustments and repairs of defective components and assemblies in a supervised lab setting. In the second semester, students will be required to apply knowledge and skills gained in Basic and Advanced Automotive Electricity and Fuel Systems. Through supervised labs, students will experience hands on diagnosis and repair of the computers, sensors, and control devices of late model cars. They will finish by being required to build on and apply the knowledge and skills gained in Basic Brakes and Basic Suspension and Alignment. Through supervised lab experiences, students will study advanced techniques in the

diagnosis, service, and repair brake and suspension systems. Upon successful completion of this course, students will receive eight high school credits and 17 credits from SWCC.

## **CARPENTRY AND BUILDING TRADES I (SWCC)**

*Term: Year (4 blocks/semester)*

*Grade Level: 11, 12*

*Prerequisite: Construction Technology or recommendation of administration*

This is a combination of two courses offered at SWCC, Basic Construction Skills and Carpentry Level I, that will be taught in two high school blocks every day. One component of the course will be instruction in the basics of construction, math, safety, blueprint reading, hand tools, power tools, and rigging for cranes. The second component will provide a background in the carpentry trade, construction materials, hand and power tools, and rough framing. Students will receive eight high school credits upon satisfactory completion of the course and 15 college credits from SWCC.

## **CARPENTRY AND BUILDING TRADES II (SWCC)**

*Term: Year (4 blocks/semester)*

*Grade Level: 12*

*Prerequisite: Carpentry and Building Trades I*

This course is designed to provide the student with an understanding of the basics of concrete form and flatwork. Textbook information is covered in the classroom followed by hands on practice at the job site. It also provides the student with real life, hands on activities in residential construction. Under guided supervision students will build a 2-4 bedroom home. Flat concrete work, wall and floor framing, roofing, drywalling, hanging doors and cabinets, and finish trim carpentry are covered. Students will receive eight high school credits upon successful completion of this course, and 15 credits from SWCC.

## **BUSINESS SYSTEMS NETWORKING (SWCC)**

*Term: Year (2 blocks/semester)*

*Grade Level: 11, 12 (preference given to juniors)*

*Prerequisites: Algebra I and Algebra II*

From databases, to PC repair, to infrastructure management, to forensics and regulatory compliance, students in SWCC's Business Systems Networking Career Academy are afforded unique and rewarding hands-on opportunities. Throughout the program, students are trained to install, configure, manage, and maintain network operating systems by an instructor with "real world experience." First year courses include: NET 122 Computer Hardware Basics, NET 132 Operating Systems, NET

612 Fundamentals of Network Security, and NET 142 Network Essentials. Second year courses include: NET 323 Window Network Management, NET 333 Implementing Windows Network Infrastructure, NET 343 Windows Directory Services, NET 353 Windows Security, and CIS 230 Web Infrastructure.

## **HEALTH OCCUPATIONS I**

*Term: Year (2 blocks/semester)*

*Grade Level: 11, 12*

*Prerequisite: None*

This year-long class is a combination of three different classes taught at SWCC. In the first semester, students will have two blocks a week of Medical Terminology Instruction. The other three days will consist of Nurse Aide instruction as well as hands on experience in varied health care settings. At the end of the first semester, students will be eligible to take the Certified Nurse Aide exam. In the second semester, students will explore a variety of health care fields and make visits to health care facilities in order to expand career ideas and at the same time begin to narrow focus in regard to personal direction. The students will also take Introduction to Psychology. Students will earn two high school credits and 6 college credits each semester. Also, upon successful completion, students will be eligible for CNA certification.

## **HEALTH OCCUPATIONS II**

*Term: Year (2 blocks/semester)*

*Grade Level: 12*

*Prerequisite: Health Occupations I*

The second year of the Health Occupations program will consist of Composition I and Nutrition first semester and Pharmacology Basics and Introduction to Computers in the second semester. Students will receive dual credit upon successful completion of the course.

## **INTRODUCTION TO EDUCATION (SWCC)**

*Term: Semester*

*Grade Level: 12*

*Prerequisites: Composition I*

This introductory course in education will provide opportunities for the student to gain a fundamental understanding of what is involved in a teaching career. Also, it is designed to familiarize students who may not enter the teaching profession with some basic educational principles and problems which will enable them to contribute more adequately to the total educational system. Upon satisfactory completion of the course, students will receive one high school credit and three college credits at SWCC.

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**COMPOSITION I (SWCC)**

*Term: Semester*

*Grade Level: 12*

*Prerequisites: Three years of high school English*

This course is a program in intensive writing, designed to develop skill in the uses of language, clear thinking, critical reading, effective writing, and practice in writing information and persuasive prose. Upon satisfactory completion of the course, students will receive one high school credit and three college credits at SWCC.

**COMPOSITION II (SWCC)**

*Term: Semester*

*Grade Level: 12*

*Prerequisites: English Composition I*

This one semester advanced composition class is a continuation of English Composition I, offering a full year of composition for transfer to four-year institutions. Intensive writing practices will be stressed in a workshop format. Upon successful completion of the course, students will receive one high school credit and three college credits at SWCC.

**INTRODUCTION TO PSYCHOLOGY (SWCC)**

*Term: Semester*

*Grade Level: 11, 12*

*Prerequisites: None*

An introductory course to the scientific study of human behavior and mental processes. Includes such topics as the background of modern psychology, personality development, brain and behavior, heredity and environment, learning and motivation, emotional processes, intelligence, human interaction, and psychological disorders. Upon satisfactory completion of the course, students will receive one high school credit and three college credits at SWCC.

**CALCULUS I (SWCC)**

*Term: Semester*

*Grade Level: 11, 12*

*Prerequisites: Calculus*

The study of limits and continuity, derivatives of elementary functions, curve sketching, extreme values, rates of change, integration, applications of integration. Upon successful completion of the course, students will receive one high school credit and four college credits at SWCC.

**CALCULUS II (SWCC)**

*Term: Semester*

*Grade Level: 11, 12*

*Prerequisites: Calculus I*

The study of transcendental functions, techniques of integration, infinite series, conic sections, parametrized curves, and polar coordinates. Upon successful completion of the course, students will receive one high school credit and four college credits at SWCC.

# COURSE LISTINGS

COURSE TITLE	CREDIT	REQ/	YEAR	PREREQUISITE	PAGE	COURSE TITLE	CREDIT	REQ/	YEAR	PREREQUISITE	PAGE
			ELEC.						ELEC.		
<b>AGRICULTURE EDUCATION</b>						Publications	2.00 <sup>1</sup>	E	11-12	Application required	15
Agriculture Food and Natural Resources	2.00	E	9-12	None	10	Technical Writing	1.00	E	11-12	None	15
Agricultural Business	1.00	E/R	10-12	11-12 preference	10	Speech	1.00	R	9-12	None	15
Agricultural Power and Technology	1.00	E	10-12	None	10	Advanced Speech	1.00	E	10-12	Speech	15
Intro to Plant Science	1.00	E	10-12	AFNR preference	10	Drama	1.00	E	10-12	None	15
Advanced Plant Science	1.00	E	10-12	AFNR and Intro to Plant Science preference	10	Play Production	1.00 <sup>1</sup>	E	10-12	None	15
Environmental and Business Law	1.00	E	10-12	11-12 preference	11	<b>FOREIGN LANGUAGE</b>					
Economics and Marketing Principles	1.00	E/R	10-12	11-12 preference	11	Spanish I	2.00	E	9-12	None <sup>2</sup>	16
Landscaping Principles & Practices	1.00	E	10-12	11-12 preference	11	Spanish II	2.00	E	10-12	Spanish I <sup>3</sup>	16
Career Seminar	1.00	E	10-12	11-12 preference	11	Spanish III	2.00	E	11-12	Spanish II <sup>3</sup>	16
Agricultural Studies	1.00	E	11-12	None	11	Spanish IV	2.00	E	12	Spanish III <sup>3</sup>	16
Intro to Principles of Animal Science	1.00	E	10-12	AFNR preference but not required	11	<b>HEALTH</b>					
Advanced Principles of Animal Science	1.00	E	10-12	AFNR preference but not required	11	Personal Health	1.00	E	9-12	None	16
						Health Issues	1.00	E	9-12	None	16
<b>ART</b>						<b>FAMILY AND CONSUMER SCIENCE</b>					
2-D Design	1.00	E	9-12	None	12	Family Development	1.00	E	10-12	None	17
3-D Design	1.00	E	9-12	None	12	Housing	1.00	E	10-12	None	17
Drawing	1.00	E	11-12	2D Design	12	Foods I	1.00	E	9-12	None	17
Painting	1.00	E	11-12	2D Design	12	Foods II	1.00	E	9-12	Foods I	17
Printmaking/Graphics	1.00	E	11-12	2D Design	12	Culinary Arts	1.00	E	10-12	Foods II	17
Multicultural Art	1.00	E	9-12	None	12	Independent Living	1.00	E/R	11-12	None	17
Ceramics	1.00	E	11-12	1 semester any Art*	12	Textiles Construction	1.00	E	10-12	None	17
Independent Art Study I & II	1.00	E	12	Arranged by Instructor*	12	<b>INDUSTRIAL TECHNOLOGY</b>					
<b>BUSINESS EDUCATION</b>						Drafting Fundamentals	1.00	E	9-12	None	18
Accounting	2.00	E	11-12	None	13	Agricultural Woodworking Fundamentals	2.00	E	9-12	None	18
Business Communication	1.00	E	10-12	11-12 preference	13	Woodworking Technology	2.00	E	10-12	Woodworking Fund.*	18
Business Law	1.00	E	11-12	None	13	Construction Technology	1.00	E	10-12	Woodworking Fund.*	18
Computer Applications	1.00	E	10-12	None	13	Agricultural Metalworking Technology	2.00	E	10-12	None	18
Personal Business Management	1.00	E/R	9-12	None	13	Agricultural Welding Fundamentals	1.00	E	10-12	None	18
Entrepreneurship	1.00	E	11-12	None	13	Computer-Aided Drafting	1.00	E	10-12	Drafting Fundamentals*	18
<b>COMPUTER/TECHNOLOGY - CAST</b>						Mechanical/Technical CAD	2.00	E	10-12	Comp-Aided Drafting	18
Media Technology	2.00	E	9-12	None	13	Architectural CAD	1.00	E	10-12	None	19
Service Technology	1.00	E	9-12	None	13	<b>MATHEMATICS</b>					
<b>ENGLISH LANGUAGE ARTS</b>						Algebra I	2.00	R	9-12	None	19
Reading	2.00	E	9	IA Assessment Scores	14	Algebra II	2.00	R	9-12	Algebra I	19
English I	2.00	R	9	None	14	Geometry	2.00	R	9-12	Algebra I*	19
English II	2.00	R	10	None	15	Trigonometry	1.00	E	10-12	Algebra II	19
English III	2.00	R	11	None	15						
English Literature	1.00	E	11-12	None	15						

COURSE TITLE	CREDIT	REQ/	YEAR ELEC.	PREREQUISITE	PAGE	COURSE TITLE	CREDIT	REQ/	YEAR ELEC.	PREREQUISITE	PAGE
Probability and Statistics	1.00	E	10-12	Algebra II	19	<b>CAREER DEVELOPMENT</b>					
Precalculus	2.00	E	11-12	Algebra II and Trig***	20	IJAG I	2.00	E	11-12	None	24
Algebra I Triumphs	2.00	E	9-12	None	20	IJAG II	2.00	E	12	Completion of part one is suggested	24
Algebra II Triumphs	2.00	E	9-12	None	20	<b>VOLUNTEER SERVICES</b>					
Geometry Triumphs	2.00	E	9-12	None	20	Students of Service (SOS)	1.00	R	12	None	24
Discrete Math	1.00	E	11-12	Successful Completion of Algebra II	20	<b>POST-SECONDARY</b>					
Calculus	1.00	E	11-12	Pre-Calculus	20	Automobile Mechanics I	8.00	E	11-12	None	25
<b>MUSIC - INSTRUMENTAL/VOCAL</b>						Automobile Mechanics II	8.00	E	12	Auto. Mech. I	25
Symphonic Band	2.00	E	9-12	None	20	Carpentry and Building Trades I	8.00	E	11-12	Construction Tech.*	25
Jazz Improvisation Class	1.00	E	9-12	Symphonic Band	20	Carpentry and Building Trades II	8.00	E	12	Carp. & BT I	25
Music Appreciation I	1.00	E	9-12	None	20	Business Systems Networking	4.00	E	11-12	Alg. I and Alg. II	25
Music Appreciation II	1.00	E	9-12	Music Appreciation I	21	Health Occupations I	4.00	E	11-12	None	25
Music Theory	2.00	E	11-12	Band or Choir	21	Health Occupations II	4.00	E	12	Health Occupations I	25
Mixed Choir	2.00	E	9-12	None	21	Introduction to Education	1.00	E	11-12	None	25
Women's Choir	2.00	E	9-12	Selection by instructor*	21	Composition I	1.00	E	12	Three years HS English	26
Broadway Choir - Fall Semester	1.00	E	9-12	Selection by instructor*	21	Composition II	1.00	E	12	English Composition I	26
Advanced Mixed Choir - Spring Semester	1.00	E	9-12	Selection by instructor*	21	Intro to Psychology	1.00	E	11-12	None	26
<b>PHYSICAL EDUCATION</b>						Calculus I	1.00	E	11-12	Calculus	26
Physical Education	.25	R	9-12	None	21	Calculus II	1.00	E	11-12	Calculus I	26
Weight Training and Fitness	.25	E	9-12	None	21						
<b>SCIENCE</b>						*Recommendation of instructor					
Physical Science	2.00	R	9	None	22	**Recommendation of 8th grade or Applied Math I instructor					
Biology	2.00	R	10-12	None	22	***Currently enrolled in Trigonometry					
Unified Science	2.00	E	10-12	Physical Science	22	1 Does not count as an English credit					
Chemistry	2.00	E	11-12	Physical Science, Algebra I, Geometry	22	2 English grade of C or better is recommended					
Physics	2.00	E	11-12	Physical Science, Algebra I & II, Geometry	22	3 Recommendation of C or better in previous Spanish class					
Human Anatomy and Physiology	2.00	E	12	Biology	22						
Natural resource and Environment	1.00	E	10-12	None	22						
<b>SOCIAL STUDIES</b>											
United States History	2.00	R	9	None	23						
World History	2.00	R	10	10th Grade Status	23						
Government	1.00	R	12	12th Grade Status	23						
Contemporary Affairs	1.00	E	10-12	US History	23						
Sociology	1.00	E	10-12	None	23						
Economics	1.00	R	10-12	None	23						
Modern World History	1.00	E	10-12	None	23						
Street Law	1.00	E	11-12	None	23						



# Creston CARES

*Cultivating  
**A**chievement and  
**R**esponsibility while  
**E**ducating all  
**S**tudents*