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Denison Community Schools

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# Denison High School Registration Handbook



**2016-2017**

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819 Monarch Drive • Denison, IA 51442

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Welcome Letter

March, 2016

Students and Parents,

This registration booklet has been prepared to assist you in planning your academic and vocational future. Each teacher has written a description for his/her class to aid you as you choose your educational path. It is recommended that you use the information in this booklet as but one source available to you in choosing your courses. Counselors and teachers can also provide valuable information which you need to make appropriate selections.

Because this high school offers courses designed for a wide range of abilities, it is easy for some students to make selections which do not challenge their capabilities. We encourage the selection of courses that will challenge students and prepare them for their future.

Our goal will be to provide an atmosphere for learning which is void of sexist, racist, and ethnic prejudices, discrimination, and separatism. No student shall be denied enrollment in a class because of race, culture, sex, or developmental disability.

It is also the policy of this district that curriculum content and instructional materials utilized reflect the cultural and racial diversity present in the United States and the variety of careers, roles, and life styles open to all.

In a few days, the planning and registration for next year's schedule will begin. It is imperative that you plan carefully, and that you make appropriate choices. It will be very difficult for you to change or drop classes once school begins in the fall.

Our registration materials have been published to aid you. We hope that you will find this booklet to be informative and useful. If you have any ideas which would make this handbook better, please call us.

You may also access the registration handbook at the district website, [www.denison.k12.ia.us](http://www.denison.k12.ia.us).

Sincerely,

Michael Phipps  
Counselor  
263-3101 ext. 236

Ann Brus  
Counselor  
263-3101 ext. 235

Lynn Torr  
Principal  
263-3101 ext. 233

# *Graduation Requirements*

Denison High School runs on an A/B day block schedule, with most classes meeting on alternate days for 90 minutes. Forty-six credits are required to earn a diploma. When successfully completed, each course is worth one credit for the semester, with the exceptions of physical education and traffic education (1/2 credit each), and those classes which meet daily (indicated on the front of the transcript with 2 credits).

Any student who does not have 90% attendance in a course is placed on audit status for the semester. An attendance meeting is held to determine if the student will receive credit and a letter grade for the course.

## **Requirements for graduation include:**

**English** -- 8 credits, including Speech

**Mathematics** -- 6 credits

**Science** -- 6 credits

Biology is required.

Lifetime Wellness and Health together can be used as 1 science credit.

OR

A combination of 3 full-year Ag. Science classes can be used as 1 science credit.

**Social Studies** -- 6 credits

American Heritage counts as 2 Social Studies/2 English

Global Studies is required.

American Government is required.

1 Western Civilization credit is required.

Economics.

**Physical Education/Wellness** -- 2 credits

9th graders take Lifetime Wellness which counts as 1/2 PE credit and 1 Health credit.

10th, 11th, 12th graders take 1/2 credit per year in PE, unless exempted.

**Health** -- 1 credit required if the student has not taken Lifetime Wellness.

Denison Community Schools is a rural public school district located in west central Iowa. The school district encompasses the communities of Denison, Buck Grove, Deloit, and Kiron. Beginning in the 1994-1995 school year, the Schleswig School District began whole-grade sharing of students in grades 9 through 12 to Denison High School. Denison, with a population of 8,500, is the largest community in Crawford County. Denison has two elementary schools, one middle school, and one high school with a combined enrollment of 2100 students.

Secondary Enrollment Options courses can be taken through Western Iowa Technical Community College, Buena Vista University, or, in a few instances, Internet courses through four-year colleges/ universities. College courses are noted on the transcript, and the letter grade is recorded as received. Numerous dual credit courses are available through a partnership between the Crawford County League of Schools and W.I.T.C.C. Such courses include Fire Fighter I and II, Auto Mechanics, Auto Body, Drafting, Computer Programming, Calculus, Composition, Literature, Welding and Health Occupations.

## Denison Community High School \* Four Year Plan Of Study

	9th Grade	10th Grade	11th Grade	12th Grade
<b>Language Arts</b> <b>8 required credits</b> -2 English 9 -1 Speech -2 English 10 -2 American Heritage -1 Senior English Elective	<b>English 9</b>  <b>Speech</b>	<b>English 10</b>	<b>American Heritage</b>	<b>College English (2 credits)</b> (or) <b>Advanced Composition (or) Comp+Communication</b>
<b>Social Studies</b> <b>6 required credits</b> -1 Global Studies -1 Western Civilization -2 American Heritage -1 American Gov. -1 Elective - Economics required for 2017 seniors and beyond.	<b>Global Studies</b>	<b>Western Civilization I</b> (Classical+Medieval Europe)  <b>Western Civilization II</b> (Renaissance, Reformation+Revolution)  <b>West Civilization III</b> (War, Power, + Conflict)  <b>Honors Western Civ.</b>	<b>American Heritage</b>	<b>American Government</b>
<b>P.E.</b> <b>2 required credits</b> -1/2 Lifetime Wellness or PE/Music -1 PE 10/11 -1/2 PE 12	<b>Lifetime Wellness or PE/Music Fresh</b>	<b>PE 10/11 or PE/Music - Soph</b>	<b>PE 10/11 (unless 3-sport athlete)</b>	<b>PE 12 (unless 3-sport athlete)</b>
<b>Science</b> <b>6 required credits</b> -1 Intro to Chemistry -1 Environmental Science -2 Biology or H. Biology 2 Science Electives	<b>Introduction to Chemistry</b>  <b>Environmental Science</b>	<b>Biology (or) Honors Biology</b>	<b>Chemistry (2)</b> <b>Physics (2)</b> <b>Biotechnology (1)</b> <b>Anatomy+Physiology (1)</b> <b>Astronomy (1)</b>	<b>Chemistry (2)</b> <b>Physics (2)</b> <b>Biotechnology (1)</b> <b>Anatomy+Physiology (1)</b> <b>Astronomy (1)</b>
<b>Mathematics</b> <b>6 required credits</b>	<b>Algebra</b> <b>Geometry</b> <b>Algebra II</b>	<b>Algebra I</b> <b>Geometry</b> <b>Algebra II</b> <b>Math Analysis</b>	<b>Algebra I</b> <b>Applied Algebra</b> <b>Geometry</b> <b>Algebra II</b> <b>Math Analysis</b> <b>Calculus I</b> <b>Probability/Stats (1)</b>	<b>Applied Algebra</b> <b>Geometry</b> <b>Algebra II</b> <b>Math Analysis</b> <b>Calculus I</b> <b>Probability+Statistics (1)</b> <b>Calculus II</b>
<b>Health</b> 1 - Lifetime Wellness or Health	<b>46 Credits are required for Graduation.</b>			

# Denison Community Schools

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## College Articulation

Articulation takes place when a community college and high school mutually agree on the content and standards of classes taught at both schools. If the local high school and college have an articulation agreement, it enables students to either transfer to the Community College and receive college credit for the classes involved in the articulation agreement or, in some cases, students will receive advanced standing which means students won't receive the actual college credit, but they do not need to repeat the same course at the college level. For example, if a computer keyboarding class is part of the articulation agreement between the high school and the community college, the student taking this class in high school would not need to take the same course again in college. This student would move on (advance) to the next level of college course.

After graduation from high school, students need to check with their high school counselor and high school instructors so the necessary forms are sent with their high school transcript for them to gain college credit or receive advanced standing.

## Articulated Courses Western Iowa Technical Community College

<u>Denison Course</u>	<u>WITCC Course</u>	<u>Sem. Credits</u>
Accounting I & II	ACC 111 Intro to Accounting	3 hrs.
Ag. Science I & III	AGA 114 Principles of Agronomy	3 hrs.
Ag. Science I, II, III & IV FFA	AGB 235 Intro to Agricultural	3 hrs.
Ag. Science I, II, III & IV FFA	AGS 113 Survey of the Animal Industry	3 hrs.
Child Development I & II	ECE 170 Child Growth & Development	3 hrs.

## Concurrent / Dual Credit Classes

Denison High School students have the opportunity to enroll in several dual credit classes through Western Iowa Tech. Dual credit classes include the same curriculum and materials that the college uses at the central campus in Sioux City. A student will receive both Denison High School credit towards graduation and college credit through Western Iowa Technical Community College.

The tuition for the college credit is paid by the Denison Community School District.

## Dual Credit Classes Through Western Iowa Tech Community College

<b>Denison Course</b>	<b>WITCC Course</b>	<b>Sem. Hrs.</b>
*Intro to Health Occupations	HSC 109 Health Careers & Teams	3
*Medical Terminology	HSC 114 Medical Terminology	3
*First Aid/First ResponderEMS	114 EMS/First Responder	2
*Fundamentals of Auto	AUT 104 Intro to Auto Technology	4
	AUT 615 Auto Electricity/Electronics	4
*Auto Body	CRR 102 Sheet Metal Welding	3
	CRR 811 Surface Preparation	4
	CRR 323 Sheet Metal Fund.	3
*Advanced Auto Body	CRR 411 Interior Body Construction	3
	CRR 403 Exterior Body Construction	3
	CRR 202 Plastics Repair	3
*Computer A+NET	123 Computer Hardware Basics	4
*Visual BASICS.NET 1	CIS 606 VisualBASICS.NET 1	3
*Welding I	WEL 120 Oxy Fuel Welding and Cutting	2
*Welding II	WEL 147 ARC Welding Intro	3
*Welding III	WEL 148 ARC Welding Intermediate	3
Versa CAD	173 Intro to Versa CAD	2
Data Processing: Microsoft Office	BCA 109 Windows Operating Systems	2
Adv. Data Pro: Microsoft Office	BCA 147 Basic Spreadsheets	2
	BCA 129 Basic Word Processing	2
	BCA 175 Basic Presentation Software	2
	BCA 165 Basic Databases	2
*College English	105 Composition I	3
	106 Composition II	3
	101 Intro to Literature	3
Calculus I	MAT 211 Calculus I	5
Calculus II	MAT Calculus II	
Honors American Government	POL III American National Government	3
Honors Western Civ.	HIS 111 Western Civilization: Early Modern to Present	3
Intro to Psychology	PSY III Intro to Psychology	3

Fire Fighter I	FIR 140 Fire Fighter I	2
Fire Fighter II	FIR 141 Fire Fighter II	2
Intro to Criminal Justice	CR5 100 Intro to Criminal Justice	3
Ethics in Criminal Justice	CR5 101 Ethics in Criminal Justice	3

Students interested in dual credit courses need to check the course descriptions for further details. Some courses will satisfy requirements for a two year degree but may not transfer to a four year college, while others will satisfy the requirements towards a 2 year degree and also transfer to a four year college. Make certain you know which courses are transferable to a four year college and which are not.

### CORRESPONDENCE COURSES

Course work taken exclusively through the mail will not be accepted for a credit through Denison High School.

### INTERNET COURSES

Course work transmitted through the Internet from a college or an approved educational curriculum provider will be accepted as credit towards a Denison High School diploma as long as the course has been pre-approved by the high school principal. The grade earned in an Internet course will be included on the student's Denison High School transcript. Courses cannot be a duplication of those offered at Denison High School. Please see your guidance counselor if you have interest in this type of course.

## CAREER PLANNING AND TESTING

A student's career planning in high school includes obtaining the needed knowledge and skills in various subject areas, learning about decision making, and identifying aptitudes, interests and achievements. During high school, students will meet with their counselor to plan their schedule of classes and to do post-high school planning. Some of the options that may be discussed are:

1. College admissions and college entrance requirements and examinations
2. Vocational/technical schools or area community colleges and their programs,
3. Military opportunities available.
4. Entering directly into the work force or apprenticeship training.

These options should be considered as the student progresses through high school. Students also may need to:

1. Visit with representatives from four-year colleges and universities, vocational/technical schools or area community colleges, or the military services.
2. Attend the college fair held during the school day at our high school in early fall.
3. Plan visits to colleges or other types of schools or programs.

4. Attend, along with parents, the annual Financial Aid Night held in our high school in November or December. (This usually helps families answer many questions about financing further education.)

Valuable information is posted for seniors in the hallways and in the case outside the guidance office including colleges representatives who will be visiting our high school.

All students/families can access valuable information at the high school website [www.denison.k12.ia.us](http://www.denison.k12.ia.us). Click on Guidance.

Information on this site includes important testing dates and registration procedures, sites for practice tests, scholarship information and applications, checklists for students at each grade level for tasks which should be completed each year for progressing toward post-secondary education, and schedules of important dates for testing, visits and other guidance activities.

# Minimum High School Course Requirements for Admission to Iowa's University System

Subject Area	Iowa State University	The University of Iowa	University of Northern Iowa
<b>English</b>	Four years of English emphasizing writing, speaking, reading, as well as an understanding and appreciation of literature.	Four years, with an emphasis on the analysis and interpretation of literature, composition, and speech.	Four years, including one year of composition; also may include one year of speech, communication, or journalism.
<b>Math</b>	Three years, including one year each of algebra, geometry, and advanced algebra.	Three years, including two years of algebra and one year of geometry, for admission to the College of Liberal Arts and Sciences. Four years, including two years of algebra, one year of geometry, and one year of higher mathematics (trigonometry, analysis, or calculus), for admission to the College of Engineering.	Three years, including the equivalent of algebra, geometry, and advanced algebra.
<b>Natural Science</b>	Three years, including one year each from any two of the following: biology, chemistry, and physics.	Three years, including one year each from any two of the following: biology, chemistry, and physics for admission to the College of Liberal Arts and Sciences. Three years, including at least one year of chemistry and one year of physics, for admission to the College of Engineering.	Three years, including courses in general science, biology, chemistry, earth science, or physics; laboratory experience highly recommended.
<b>Social Science</b>	Two years for admission to the Colleges of Agriculture, Business, Design, Human Sciences, and Engineering. Three years for admission to the College of Liberal Arts and Sciences.	Three years, with U.S. history and world history recommended for admission to the College of Liberal Arts and Sciences. Two years, with U.S. history and world history recommended, for admission to the College of Engineering.	Three years, including courses in anthropology, economics, geography, government, history, psychology, or sociology.
<b>Foreign Language</b>	Two years of a single foreign language for admission to the College of Liberal Arts and Sciences; 3 for the College of Engineering. Foreign language courses are not required for admission to the Colleges of Agriculture, Business, Design, or Human Sciences.	Two years of a single foreign language required for admission. It is recommended that students take at least 3 and possibly 4 years to satisfy eventual requirements at U of I.	Foreign language courses are not required for admission. However, two years of a foreign language in high school with a C- or above in the last term will meet the university graduation requirement.
<b>Other Courses</b>	Specific elective courses are not required for admission to Iowa State University.	Specific elective courses are not required for admission to The University of Iowa.	Two years of additional courses from the required subject areas, foreign languages, or fine arts.

## Board of Regents, State of Iowa

### Freshman Admission Requirements to the Regent Universities

Admission of freshmen who wish to enroll at any of the Iowa Regent universities beginning Fall 2009 and beyond will be based on the Regent Admission Index (RAI) equation described below. In addition, applicants must meet the minimum high school course requirements for the university they wish to enter.

- ( 2 x ACT composite score)
- + ( 1 x percentile high school rank)
- + (20 x high school GPA)
- + ( 5 x number of full year high school core courses\*\*)

### **Regent Admission Index Score**

*Note: For purposes of calculating the RAI, SAT scores will be converted to ACT composite equivalents, 99% is the top value for high school rank, 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 from Iowa high schools 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 an individual basis and the admission decision will be specific to each institution. Freshman applicants from approved high schools in other states may be held to higher academic standards, but must meet at least the same requirements as graduates of Iowa high schools.








The Regent universities recognize that the traditional measures of academic performance do not adequately describe some students' potential for success. Therefore, the Regent universities strongly encourage all interested students to apply for admission. Applicants who feel their academic record is not an accurate reflection of their potential for success are encouraged to provide supplemental information explaining their circumstances in addition to the application, academic transcripts, and test scores.





**\*\*Core courses are only from the areas of English, Mathematics, Science, Foreign Language, and Social Studies.**





A "web calculator" that can be used to help calculate a student's RAI score can be found at <http://www2.state.ia.us/regents/rai/>



## The 16 Career Clusters

	<p>The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.</p>
	<p>Careers in designing, planning, managing, building and maintaining the built environment.</p>
	<p>Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.</p>
	<p>Business Management and Administration careers encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy.</p>
	<p>Planning, managing and providing education and training services, and related learning support services.</p>
	<p>Planning, services for financial and investment planning, banking, insurance, and business financial management.</p>
	<p>Executing governmental functions to include Governance; National Security; Foreign Service; Planning; Revenue and Taxation; Regulation; and Management and Administration at the local, state, and federal levels.</p>

	<p>Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.</p>
	<p>Hospitality &amp; Tourism encompasses the management, marketing and operations of restaurants and other foodservices, lodging, attractions, recreation events and travel related services.</p>
	<p>Preparing individuals for employment in career pathways that relate to families and human needs.</p>
	<p>Building Linkages in IT Occupations Framework: For Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services.</p>

	<p>Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.</p>
	<p>Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.</p>
	<p>Planning, managing, and performing marketing activities to reach organizational objectives.</p>
	<p>Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.</p>



Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

## ART

COURSE NUMBER: HS1

COURSE TITLE:

### Introduction to Visual Education

COURSE LENGTH: Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 9, 10, 11, 12

COURSE DESCRIPTION:

Introduction to Visual Education is a beginning course. Areas covered are drawing, ceramics, sculpture, and painting. The philosophy of the course is to offer a wide range of activities and problems and to expose the students to as many different art areas as time permits. Elements of basic design will be stressed in the first half of the course. Strategies will also be introduced to foster learning the basics of the creative process. *This course is a prerequisite to all other art classes. "Students must achieve at least a grade of "C" in order to advance to any other art course."*

COURSE NUMBER: HS2

COURSE TITLE:

### 3-D Visual Fundamentals

COURSE LENGTH: Semester, One Credit

PREREQUISITE: Introduction to Visual Education (with at least a grade of "C")

GRADE LEVEL: 9, 10, 11, 12

COURSE DESCRIPTION:

Students will explore 3-D arts in found objects, recyclable, plaster, wire, furniture, public sculpture, installations, clay, and jewelry. They will be taught the fundamentals of sculpture. Students will create pieces that are functional and pieces that are just forms. This course will give student experience that will make them better consumers and producers of art.

COURSE NUMBER: HS3

COURSE TITLE:

### Ceramics

COURSE LENGTH: Semester, One Credit

PREREQUISITE: 3-D Visual Fundamentals

GRADE LEVEL: 10, 11, 12

COURSE DESCRIPTION:

Ceramics starts with a brief review of all hand building techniques. Students will create projects from pinch, slab, coil, and wheel methods. New techniques in ceramic design will be introduced. At this level, students will gain knowledge in loading and firing the electric kiln. This course will equip all students to be knowledgeable consumers and producers of ceramic art.

COURSE NUMBER: HS4

COURSE TITLE:

### Drawing

COURSE LENGTH: Semester, One Credit

PREREQUISITE: Intro to Visual Education (with at least a "C")

GRADE LEVEL: 9, 10, 11, 12

COURSE DESCRIPTION:

The course will focus and introduce various drawing techniques and mediums. Still-life, group poses, landscape, animals, etc., are a few projects the student will have the opportunity of exploring. Other strategies that stress visual thinking, metaphoric thinking and visual logic will be used. Students will be required to work with sketchbooks over the semester. Sketchbook assignments will be in class and outside of class. Critical analysis of art (drawing) work will be stressed.

COURSE NUMBER: HS5

COURSE TITLE:

### Computer Graphics

COURSE LENGTH: Semester, One Credit

PREREQUISITE: Introduction to Visual Education (with at least a "C")

GRADE LEVEL: 9, 10, 11, 12

COURSE DESCRIPTION:

This course will place emphasis on the use of the computer as the main tool for carrying out assignments and strategies. Students will learn the features of various computer programs. Students will also have

opportunities to critique and reflect on their own work as well as those of professionals and their peers. Logo designs, Illustration and Advertising will be the focus of this class.

COURSE NUMBER: HS6

COURSE TITLE:

### Painting

COURSE LENGTH: Semester, One Credit

PREREQUISITE: Introduction to Visual Education

GRADE LEVEL: 9, 10, 11, 12

COURSE DESCRIPTION:

Painting will offer students an opportunity to experience areas of the painting spectrum. Mediums that will be covered are watercolor, acrylic and oil painting. Paintings will deal with a variety of subject matter which include abstract, portraits, and landscapes. This course will also give students experience that will make them better consumer and producers of art.

COURSE NUMBER: HS7

COURSE TITLE:

### Studio I

COURSE LENGTH: Semester, One Credit

PREREQUISITE: Intro to Visual Education, and two of the following: Painting, Drawing, 3-D, Ceramics, Computer Graphics. Student must have averaged a B or better in those courses

GRADE LEVEL: 11, 12

COURSE DESCRIPTION:

Students will work in areas of interest: drawing, painting, ceramics, sculpture, and multi media. Discussion and research of artists, art history, and current trends will take place. Students will be responsible for each piece they complete and fill out contracts setting standards, time frame, and theme. Students will also be preparing their portfolio for future plans in the art field.

COURSE NUMBER: HS8

COURSE TITLE:

### Studio II

COURSE LENGTH: Semester, One Credit

PREREQUISITE: Intro to Visual Education, Studio I and two of the following:  
Painting, Drawing, 3-D, Ceramics, Computer Graphics.  
Student must have averaged a B in those courses

GRADE LEVEL: 11, 12

COURSE DESCRIPTION:

Students will work in areas of interest: drawing, painting, ceramics, sculpture, and multi media (Needs to be a different area than in Studio I). Discussion and research of artists, art history, and current trends will take place. Students will be responsible for each piece they complete and fill out contracts setting standards, time frame, and theme. Students will also be finishing their portfolio for future plans in the art field.

COURSE NUMBER: HS9

COURSE TITLE:

Photography

COURSE LENGTH: Semester, One Credit

PREREQUISITE: The students need to have 1 semester of Art Fundamentals and they need to own or have access to a good 35 mm camera. A lab fee of \$15 will be charged.

GRADE LEVEL: 11, 12

COURSE DESCRIPTION:

The history of photography will be introduced including the developing process using a 35mm camera during the first part of this course. Visual and aesthetic aspects of photography will be a focus for the entire course. Emphasis will be placed on digital photography. This course will give students experience with careers in product photography, photo journalism, free-lance photography, family photography, food, photography, and fashion photography. This course will also give students the opportunities to be better consumers and producers of art and photography.

## BUSINESS

COURSE NUMBER: HS102

COURSE TITLE:

Data Processing: Microsoft Office

COURSE LENGTH: Semester; One Credit

PREREQUISITE: None

GRADE LEVEL: 9, 10, 11, OR 12

COURSE DESCRIPTION:

The primary focus of the class will be on using Microsoft Office 2007 software. A few areas to be covered include Microsoft Word, Excel spreadsheets, PowerPoint presentations. **This course is strongly recommended for every student and will articulate with some community colleges. After completing this course the students will receive 2 credit hours from Western Iowa Tech Community College in Introduction to Windows. Upon completing a second semester class called Advanced Data Processing - MS Office students may receive 8 college credits from Western Iowa Tech Community College. If a student is considering taking the advanced course for college credit, it is strongly recommended that they complete that course as soon as possible after taking the first semester of data processing.**

COURSE NUMBER: HS104

COURSE TITLE:

### General Business

COURSE LENGTH: Semester; one credit

PREREQUISITE: None

GRADE LEVEL: 9, 10, 11, OR 12

COURSE DESCRIPTION:

This is an elective course for any student entering the work force or planning a business degree in college. The course will be a general overview of business management, entrepreneurship, world trade, marketing, and consumer economics, i.e., comparison shopping, money management, and purchase planning.

COURSE NUMBER: HS105

COURSE TITLE:

### Accounting I

COURSE LENGTH: Year, Two Credits

PREREQUISITE: None

GRADE LEVEL: 9, 10, 11, or 12

COURSE DESCRIPTION:

This course emphasizes basic knowledge concerning small businesses and personal record keeping. It emphasizes the basics in accounting procedures for different types of small businesses. The course is essential

to those interested in a career in business, whether it be secretarial, bookkeeping, store clerk, farming, retail sales, or just personal records and budgets. **This course will articulate with most community colleges.**

COURSE NUMBER: HS106

COURSE TITLE:

### Accounting II

COURSE LENGTH: Year, Two Credits

PREREQUISITE: Accounting I

GRADE LEVEL: 10, 11 or 12

COURSE DESCRIPTION:

This course is designed to improve and develop the skills and understandings learned in Accounting I. It is particularly beneficial to those students interested in majoring in business at a 2 or 4 year college, and those planning a career immediately after graduation. The emphasis will be to study in detail those items studied in Accounting I. Emphasis will be upon partnerships, corporations, cost accounting, etc. This course is designed for any student planning on a business career. **This course will articulate with most community colleges.**

COURSE NUMBER: HS107

COURSE TITLE:

### Accounting III

COURSE LENGTH: Year, Two Credits

PREREQUISITE: Accounting II

GRADE LEVEL: 11, or 12

COURSE DESCRIPTION:

This course is designed for those accounting students wanting to expand their knowledge of accounting principles and procedures. Accounting procedures introduced in Accounting I and II will be studied in depth. This course is for those students majoring in accounting, management, marketing, or other careers within the business world. This course is designed for those accounting students wanting to expand their knowledge of accounting principles and procedures. The concepts and procedures introduced in Accounting I and Accounting II will be covered in depth and taken to an more advanced stage. This course is designed for those students planning a major in college in accounting, management, marketing, or any other business occupation.



COURSE NUMBER: HS108

COURSE TITLE:

### Business Law

COURSE LENGTH: Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 11, 12

COURSE DESCRIPTION:

Business Law is a course that will introduce legal concepts and how they effect citizens. Because Business Law touches on so many facets of our varied roles as citizens, workers, consumers, and businesses, an understanding of it is an essential life skill. The course is designed to introduce students to the basic principles of law and its application to daily life. This course will be helpful to any citizen and also for any individual interested in a business career.

COURSE NUMBER: HS109

COURSE TITLE:

### Entrepreneurship

COURSE LENGTH: One semester, One Credit

PREREQUISITE: General Business (Strongly Suggested)

GRADE LEVEL: 11, 12

COURSE DESCRIPTION:

Entrepreneurship teaches the principles of owning and operating a business. The purpose of this class is to introduce students to the concepts of basic business, management, and entrepreneurship and how they work in the business environment. These concepts can be segmented into three areas: Fundamentals of Business, Management, and Entrepreneurship. Fundamentals of Business will introduce students to basic business concepts and how they affect the economy. Fundamentals of Management will provide an introduction to the concepts and managerial functions of planning, organizing, leading, and controlling. Entrepreneurship will provide students with a knowledge of proven business ideas and an opportunity to create their own business. This class will be helpful in any business career.

COURSE NUMBER: HS110

COURSE TITLE:

### Sports & Entertainment Marketing

COURSE LENGTH: One Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 11, 12

COURSE DESCRIPTION:

This course will take you step-by-step through the world of marketing. You will learn the basic functions of marketing and how those functions are applied to sports and entertainment. The basic functions of marketing include: Marketing-Information Management, Financing, Pricing, Promotion, Product/Service Management, Distribution, and Selling.

COURSE NUMBER: HS112

COURSE TITLE:

**Personal Finance**

COURSE LENGTH: One semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 9, 10, 11, 12 (encouraged for upper classmen)

COURSE DESCRIPTION:

This is an elective course for all students who wish to get a foundation in personal finance matters. Examples include establishing/protecting credit, budgeting, planning for their financial future, and debt management.

COURSE NUMBER: HS114

COURSE TITLE:

**Principles of Investing**

COURSE LENGTH: One semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 9, 10, 11, 12 (encouraged for upper classmen)

COURSE DESCRIPTION:

This course deals with the principles of accumulating savings and managing your investments. Subjects include: investment vehicles, insurance, and consumerism. Additionally, students will participate in a stock market simulation throughout the semester.

COURSE NUMBER: HS115

COURSE TITLE:

**Advanced Data Processing: Microsoft Office**

COURSE LENGTH: Semester; One credit

PREREQUISITE: C- or better in Data Processing-Microsoft Office

GRADE LEVEL: 10, 11, 12

COURSE DESCRIPTION:

This course is open to students who have successfully completed Data Processing - Microsoft Office with a C- or better. The primary focus of the class will be on mastering the use of Microsoft Office software. Areas to be emphasized include advanced features of Microsoft Word, Excel spreadsheets, and PowerPoint presentations, and Access. **After successful completion of this course students may receive 8 credits through Western Iowa Tech Community College. Students must complete both semesters of Data Processing - MS Office to receive 2 credits and Advanced Data Processing - MS Office in order to get the additional 8 college credits.**

COURSE NUMBER: HS116

COURSE TITLE:

### Web Design

COURSE LENGTH: Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 10, 11, or 12

COURSE DESCRIPTION:

Introduction to the Macromedia Dreamweaver software package. Topics include planning a web site, defining a root folder, adding links, forms, text, frames and graphics to a web page. Students will create a basic web site and upload it to a server. This course also includes an introduction to the Adobe Photoshop software package. This course is the first in a series focusing on the software used to manipulate images used for digital and printed media. Topics include introduction to the software interface, tools, palettes, selections, layers, basic retouching techniques, basic realistic editing techniques, and introduction to collage and importing images from scanners and digital cameras. There will also be a brief exposure to Macromedia Fireworks and Macromedia Flash software packages.

COURSE NUMBER: HS117

COURSE TITLE:

### Advanced Web Design

COURSE LENGTH: Semester, One Credit

PREREQUISITE: Web Design with a C- or better

GRADE LEVEL: 10, 11, 12

COURSE DESCRIPTION:

Introduction to the Macromedia Dreamweaver software package. Topics include planning a web site, defining a root folder, adding links, forms, text, frames and graphics to a web page. Students will create a basic web site and upload it to a server. This course also includes an introduction to

the Adobe® Photoshop software package. This course is the first in a series focusing on the software used to manipulate images used for digital and printed media. Topics include introduction to the software interface, tools, palettes, selections, layers, basic retouching techniques, basic realistic editing techniques, and introduction to collage and importing images from scanners and digital cameras. There will also be a brief exposure to Macromedia® Fireworks and Macromedia® Flash software packages.

COURSE NUMER: HS119

COURSE TITLE:

Live Interactive Media Technology and Production I/II

COURSE LENGTH: One Credit, One Semester

PREREQUISITE: None

GRADE LEVEL: 10, 11, 12

COURSE DESCRIPTION:

This course is designed for students that would like to pursue a potential career in production of live events that may include: digital production of live events, sports broadcasting or television and radio production. Students will be introduced to audio mixing, video switching, graphics development, HighSchool Cube streaming service, TriCaster 460 hardware and software, and Final Cut Pro X software. Topics include: project-based learning (PBL) in a team environment, setting up camera equipment and capturing audio and video at live events (sporting, performing arts, etc.), video and audio mixing from multiple sources, integrated visual and motion effects, social media publishing and promotion, sports play by play training, and color commentary training. Students will product both live and recorded events, culminating with a final production (assessment) of a live event.

COURSE NUMER: HS123

COURSE TITLE:

Flash

COURSE LENGTH: One Credit, One Semester

PREREQUISITE: Web Design

GRADE LEVEL: 10, 11, 12

COURSE DESCRIPTION:

An introductory course into Adobe® Flash, animation software for web pages. Explores the 3 types of animation: shape tweens, motion tweens, and frame by frame animation. Studies the interface concentrating on the

timeline, importing graphics and a beginning look at components and ActionScript needed for web page interactivity.

## WORLD LANGUAGE

COURSE NUMBER HS204

COURSE TITLE:

### Spanish I

COURSE LENGTH: Year, Two Credits

PREREQUISITE: "C-" grade or above in Language Arts suggested

GRADE LEVEL: 9, 10, 11, or 12

COURSE DESCRIPTION:

Spanish I presents the basics of the Spanish language--both written and spoken--pronunciation, spelling and grammar. Since a language is a reflection of the culture or cultures that speak it, elements of Spanish, Mexican and South American culture will also be integrated into the teaching of the language through games, songs and short movies. The ability to speak Spanish is a definite benefit to all job skills. The ability to speak a foreign language is a question asked in all styles of employment, business, education and government. The acquaintance with Spanish gained in Spanish I can be a benefit to any future occupation.

COURSE NUMBER HS205

COURSE TITLE:

### Spanish II

COURSE LENGTH: Year, Two Credits

PREREQUISITE: Spanish I, "C-" grade or above in Spanish I or written permission from instructor

GRADE LEVEL: 10, 11, or 12

COURSE DESCRIPTION:

Spanish II continues with a review of Spanish I material and progresses to the past tenses and more complex expressions of the student's thoughts in both written and spoken Spanish. Speaking and reading skills will be expanded with the student's ability to express what he/she learns and already knows in Spanish. Students will use more Spanish in daily functions of class and presentations. Cultural values of Spanish-speaking peoples will be explored in more detail through games, songs, cooking, reading short stories and short non-fiction materials. Completion of

Spanish II enhances the opportunity to use Spanish as a job skill in any future employment.

COURSE NUMBER HS206

COURSE TITLE:

### Spanish III

COURSE LENGTH: Year, Two Credits

PREREQUISITE: Spanish II, "C-" grade or above in Spanish II , or written permission from instructor

GRADE LEVEL: 11 or 12

COURSE DESCRIPTION:

Spanish III furthers the study of advanced Spanish grammar and culture. Students will have the opportunity to use Spanish in many tenses and thus discuss most facets of daily life past and present. In addition to text work several short stories and a novel will be read and discussed. Spain, Mexico, and Central America will also be studied through legends, articles, games, cooking, music and art.

COURSE NUMBER HS207

COURSE TITLE:

### Spanish IV

COURSE LENGTH: Year, Two Credits

PREREQUISITE: Spanish III, "C-" grade or above in Spanish III or written permission from instructor

GRADE LEVEL: 12

COURSE DESCRIPTION:

Spanish IV provides the advanced student the opportunity to practice Spanish in personal and original situations. Grammar skills from past years will be polished through use and application. Practice will include discussing daily life, opinions and problem solving. Written fluency will be developed through extensive written practice on a variety of topics. Dialogues, group discussions, games and plays will be used to further the integration of the language and cultures. The student will also improve Spanish skills through reading and discussing modern and classical Spanish material. Culture of Hispanic countries will be studied in depth through books, topic researches, and media in Spanish and English. Culture will also be explored through cooking, music, art, and dance. Spanish IV students will be able to use their language skills in their future employment.

# FAMILY AND CONSUMER SCIENCE

COURSE NUMBER: HS300

COURSE TITLE:

## Foods I

COURSE LENGTH: Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 9, 10, 11, and 12

COURSE DESCRIPTION:

This is a beginning food course, which includes the development of basic food preparation procedures. It will also include personal development: setting and reaching goals, thinking skills, managements and decision making skills, environmental awareness, cooperation and teamwork skills, and an application of reading, writing, and math skills. Entry-level preparation skills as well as basic kitchen terminology and equipment will be emphasized.

COURSE NUMBER: HS301

COURSE TITLE:

## Foods II

COURSE LENGTH: Semester, One Credit

PREREQUISITE: A grade of C or better in Foods I

GRADE LEVEL: 9, 10, 11, and 12

COURSE DESCRIPTION:

This is an advanced food and nutrition course that is a continuation of Foods I. Cooking is based on the food guide pyramid. Developing skills for life is also emphasized. Those skills include eating to maintain health; working as a team; making decisions; planning, organizing, and shopping; thinking critically and answering questions; and setting and reaching goals.

COURSE NUMBER: HS306

COURSE TITLE:

## Foods III (To be offered opposite Housing & Interior Design)

COURSE LENGTH: Semester, One Credit

PREREQUISITE: A grade of C or better in Foods II

GRADE LEVEL: 10, 11, and 12

COURSE DESCRIPTION:

This is an advanced food and nutrition course that is a continuation of Foods I and Foods II. It includes the following units: meal planning, convenience foods, advanced baking techniques, foods of the world, regional foods, creative techniques, entertaining, special ways with food, technology and food, careers in food and nutrition. Developing skills for life is also emphasized. Those skills include eating to maintain health; working as a team; making decisions; planning, organizing, and shopping; thinking critically and answering questions; and setting and reaching goals.

COURSE NUMBER: HS302

COURSE TITLE:

### Housing & Interior Design (To be offered opposite Foods III)

COURSE LENGTH: Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 9, 10, 11, 12

COURSE DESCRIPTION:

Housing and Interior Design includes the following topics: homes and people, architecture and home design, consumer concerns, understanding construction, understanding design elements and principles, planning interiors, and applying design principles for daily living. Students will see how technological progress has changed home construction and design. There are many "hands on" projects that involve using their knowledge by coloring, painting, and creating housing designs. There is a final project which allows them to apply their design knowledge gained from the class. Careers in the housing field will also be explored.

COURSE NUMBER: HS303

COURSE TITLE:

### Contemporary Living

COURSE LENGTH: Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 11, 12

COURSE DESCRIPTION:

Decisions, decisions, decisions.....everything you do effects your life today and quite possibly your life for years to come. This class focuses on decisions that effect you, those around you, and your future. Good decision making and the evaluation of choices is vital to your physical, social, emotional, spiritual, and financial well-being.



COURSE NUMBER HS304

COURSE TITLE:

### Child Development I

COURSE LENGTH: One Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 11 or 12

COURSE DESCRIPTION:

This course is a study of effective parenting, child care skills, child observation and participation, health, safety, and nutrition, developmental stages and influences, family and personal relationships, society and community, and careers that pertain to child development. It will include prenatal development and stresses the child through the age of one. This class would be excellent for anyone interested in the health care field, teaching, social work, or using parenting skills effectively. **This is an articulated course by WITCC, if you take both Child Dev. I and II.**

COURSE NUMBER HS305

COURSE TITLE:

### Child Development II

COURSE LENGTH: One Semester, One Credit

PREREQUISITE: Child Development I (Approval of Instructor required if grade in HS304 was below a C-)

GRADE LEVEL: 11 or 12

COURSE DESCRIPTION:

This course is a study of growth and developmental processes of the child from age one to adolescence. Emphasis is on the social, physical, cognitive, and emotional development of each age group. It will provide an opportunity to participate with children in a supervised setting, emphasizing planning and implementation of childhood activities. Students interested in careers relating to human development will find this class appropriate. *This course can be articulated with WITCC.*

## AGRICULTURAL EDUCATION

Students successfully completing three years of Ag. Science will also receive one semester of science credit towards meeting the graduation requirement of three years. It will not meet most college entrance requirements. For these students, completing Lifetime Wellness and Health will not be allowed to count as a semester of science towards graduation. All students in Agricultural Education are eligible for and encouraged to pursue FFA membership.

COURSE NUMBER: HS400

COURSE TITLE:

### Agricultural Science I

COURSE LENGTH: Year, Two Credits

PREREQUISITE: None

GRADE LEVEL: 9, 10, 11, 12

COURSE DESCRIPTION:

This course includes an introduction to the FFA, Leadership Skills, Animal Science and Animal welfare. Agribusiness is stressed at all times. The Animal Science curriculum includes breeds, reproduction, the digestive systems, diseases, and management of livestock, pets, and birds.

**Articulation with community colleges is possible for those taking this course.**

COURSE NUMBER: HS401

COURSE TITLE:

### Agricultural Science II

COURSE LENGTH: Year, Two Credits

PREREQUISITE: None

GRADE LEVEL: 10, 11, 12

COURSE DESCRIPTION:

This year course of study revolves around agronomy and horticulture. Agronomy units include weeds, insects, cereal grains, corn, & soybeans. Floriculture and house plants are units that make up the largest part of the horticulture curriculum. Poinsettias will be grown in the fall. Fruits and vegetables are also discussed. The class will utilize the greenhouse.

Leadership skills are enhanced with a unit of Parliamentary Procedure. Agribusiness is related at all times. Students have the opportunity to compete in State Agronomy and Floriculture contests at the completion of this class. **Articulation with community colleges is possible for those taking this course.**

COURSE NUMBER: HS402

COURSE TITLE:

### Agricultural Science III

COURSE LENGTH: Year, Two Credits

PREREQUISITE: None

GRADE LEVEL: 11 or 12

COURSE DESCRIPTION:

This year long course involves a variety of units and topics, starting with soil chemistry and fertility. The year continues with conservation and learning about plat books and legal description. Short units over Soil Survey Books and the combine are included. In the spring semester students obtain skills in communication by learning about agricultural sales and radio broadcasting. Units in propane and anhydrous safety, along with livestock nutrition are taught. Agribusiness is related at all times. The landscaping unit will familiarize students with tree and shrub species and landscape practices. Students will have the opportunity to participate in many FFA contests during and at the completion of this class. **Articulation with community colleges is possible for those taking this course.**

COURSE NUMBER: HS403

COURSE TITLE:

### Agricultural Science IV

COURSE LENGTH: Year, Two Credits

PREREQUISITE: None

GRADE LEVEL: 12

COURSE DESCRIPTION:

This year relies heavily on previous agriculture courses. All students will study advanced animal science and have the opportunity to participate in Beef Extravaganza. Other units include Farm Business Management, Agribusiness procedures, Marketing, and Insurance. Loan application, net worth statements, cash flow, and enterprise analysis will be covered in this course. **Articulation with community colleges is possible for those taking this course.**

COURSE NUMBER: HS415

COURSE TITLE:

### Agronomy

COURSE LENGTH: Semester, One Credit

PREREQUISITE: Ag II

GRADE LEVEL: 11, 12

COURSE DESCRIPTION:

This upper level course covers topics ranging from soil science, crops, crop production, and evaluation of crops. Students will have a comprehensive understanding of weeds, insects, and diseases that affect midwest commodities. Also included in this Agronomy course will be units on renewable resources, biofuels, and ag-security. **Students enrolled in this class are eligible for FFA membership.**

COURSE NUMBER: HS483

COURSE TITLE:

### Veterinary Science

COURSE LENGTH: Semester, One Credit

PREREQUISITE: Ag I and Biology

GRADE LEVEL: 11, 12

COURSE DESCRIPTION:

This course is based highly on Animal Science and practices veterinarians use in clinical settings. Topics include animal health, care of animals, animal nutrition, treatment of animals and diseases. Additional focus is placed on normal healthy animals compared to ill animals and effective treatment plans. **Students enrolled in this class are eligible for FFA membership.**

COURSE NUMBER: HS484

COURSE TITLE:

### Food, Fiber and Fun

COURSE LENGTH: Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 9, 10, 11, 12

COURSE DESCRIPTION:

Do you ever wonder where your food comes from? Your clothes? Your house? The gas for your car? Why your pet is sick? This class covers those topics as well as teaching you how to be an educated consumer. Whether it's picking out the best steak in the meat counter or preparing your yard for a new garden; you, your pet, and your future will thrive after learning these agricultural topics. **Students enrolled in this class are eligible for FFA membership.**

## INDUSTRIAL /AGRICULTURAL TECHNOLOGY

COURSE NUMBER: HS450

COURSE TITLE:

### Introduction to Industrial / Agricultural Technology

COURSE LENGTH: Semester - One Credit

PREREQUISITE: None

GRADE LEVEL: 9, 10, 11, 12

COURSE DESCRIPTION:

This course provides students with the basics of several areas of industrial technology with emphasis placed on a hands-on experience. Units of instruction include metals, woods, electricity, power and energy and drafting. Emphasis will be placed on careers and employment in the Industrial/Agricultural technology field. **Students enrolled in this class are eligible for FFA membership.**

COURSE NUMBER: HS451

COURSE TITLE:

**Industrial / Agricultural Power and Energy**

COURSE LENGTH: Semester, One Credit

PREREQUISITE: Intro to Industrial / Agricultural Technology is strongly recommended

GRADE LEVEL: 9, 10, 11, 12

COURSE DESCRIPTION:

In class the student will study and discuss sources of power from the past into the future. Each student will have hands on learning of a 4-cycle, one cylinder engine as well as an experience in designing , manufacturing and testing a CO2 dragster. At the completion of this class, students will have an understanding of mechanical operations such as levers and fluids. **Students enrolled in this class are eligible for FFA membership.**

COURSE NUMBER: HS452

COURSE TITLE:

**Electricity Fundamentals in Industry and Agriculture**

COURSE LENGTH: Semester, One Credit

PREREQUISITE: Intro to Industrial Technology Strongly Recommended

GRADE LEVEL: 10, 11, 12

COURSE DESCRIPTION:

This course is designed to teach in depth the AC electrical circuits and various components which make up home and agricultural/industrial building electrical circuits. Included in this course will be the study of electric motors and control devices. Students will assemble and disassemble various components found in AC electrical circuits. Electrical safety and troubleshooting will be taught as part of this course through the use of electricity labs. **This course may articulate with some community colleges. Students enrolled in this class are eligible for FFA membership.**

COURSE NUMBER: HS453

COURSE TITLE:

### Electronic Fundamentals

COURSE LENGTH: Semester, One Credit

PREREQUISITE: Electricity Fundamentals & approval of instructor

GRADE LEVEL: 10, 11, or 12

COURSE DESCRIPTION:

Students will assemble, inspect, test and disassemble various components found in DC electrical circuits through hands on experience labs. Electrical troubleshooting will be taught as part of this course. Students will use Global Positioning and Geographic Information systems equipment. This class is intended for students who want to go into electronic equipment service. **This course may articulate with some community colleges. Students enrolled in this class are eligible for FFA membership.**

COURSE NUMBER: HS454

COURSE TITLE:

### Woods

COURSE LENGTH: Semester, One Credit

PREREQUISITE: Intro to Industrial/ Agricultural Technology Strongly Recommended

GRADE LEVEL: 9, 10, 11, or 12

COURSE DESCRIPTION:

Students will learn woodworking processes such as designing, measuring, cutting material, joining, gluing, sanding, and finishing. By the end of the course the student will have learned how to use every power tool in the lab. **Students enrolled in this class are eligible for FFA membership.**

COURSE NUMBER: HS455

COURSE TITLE:

### World of Construction

COURSE LENGTH: Semester, One Credit

PREREQUISITE: Intro to Industrial/ Agricultural Technology Strongly Recommended

GRADE LEVEL: 10, 11, or 12

COURSE DESCRIPTION:

Students will cover the complete process of the construction trades from community planning, site selection, and building the finished structure.

The student, upon completion will be able to work for construction and be able to figure cost of materials. A class project of placing concrete and/or building a small structure will allow students a hands on experience using building materials, tools, and equipment. **Students enrolled in this class are eligible for FFA membership.**

COURSE NUMBER: HS456

COURSE TITLE:

### Drafting Fundamentals

COURSE LENGTH: Semester, One Credit

PREREQUISITE: Intro to Industrial Technology Strongly Recommended

GRADE LEVEL: 10, 11, and 12

COURSE DESCRIPTION:

This is a beginning course for students with little or no previous experience in drafting. The principal objectives are to acquaint the student with basic drawing equipment, materials, and techniques; to develop skills in engineering lettering, geometric construction, and the ability to produce accurate orthographic drawings. This is a prerequisite for Introduction to VersaCAD.

COURSE NUMBER: HS458

COURSE TITLE:

### Car and Home Maintenance

COURSE LENGTH: Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 10, 11, 12

COURSE DESCRIPTION:

This course is designed for the student wishing to learn how to do basic maintenance on an automobile and home. Course content will be kept basic and lab work will also be very general. Trouble shooting will be taught as part of this course.

## Project Lead the Way

In PLTW Engineering, students engage in open-ended problem solving, learn and apply the engineering design process, and use the same industry-leading technology and software as are used in the world's top companies. Students are immersed in design as they investigate topics such as sustainability, mechatronics, forces, structures, aerodynamics,

digital electronics and circuit design, manufacturing, and the environment, which gives them an opportunity to learn about different engineering disciplines before beginning post-secondary education or careers. Schools offer a minimum of three courses by the end of the third year of implementation: Introduction to Engineering Design, Principles of Engineering, and any specialization course or the capstone course.

COURSE NUMBER: HS459

COURSE TITLE:

Introduction to Engineering Design (PLTW)

COURSE LENGTH: Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 9, 10, 11, 12

COURSE DESCRIPTION:

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work. This course is step one in the Project Lead the Way course sequence.

COURSE NUMBER: HS461

COURSE TITLE:

Principles of Engineering (PLTW)\*\*

COURSE LENGTH: Semester, One Credit

PREREQUISITE: Intro to Engineering Design

GRADE LEVEL: 10, 11, 12

COURSE DESCRIPTION:

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. This course is step two in the Project Lead the Way course sequence.

\*\* to be offered in 2017-18 school year



# LANGUAGE ARTS

COURSE NUMBER: HS500

COURSE TITLE:

## Speech

COURSE LENGTH: Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 9 (strongly recommended) and 10

COURSE DESCRIPTION:

Speech is an introductory, required course which provides practical experience in researching, organizing and presenting speeches for an audience. Various types of communication skills are also explored, including group discussion and problem solving, interpersonal skills, and drama/oral interpretation. The course tries to provide students with many of the communication skills needed in today's world.

COURSE NUMBER: HS501

COURSE TITLE:

## Speech II

COURSE LENGTH: Semester, One Credit

PREREQUISITE: Speech

GRADE LEVEL: 10, 11, 12

COURSE DESCRIPTION:

The course will provide instruction in individual and group competitive speech activities. Individual activities include impromptu speaking, improvisation, reviewing expository speaking, public address, original oratory, after-dinner speaking, interpretation of prose and poetry, storytelling, dramatic and humorous acting, and radio news. Group events include readers theater, group improvisation, and TV news and radio.

**This course cannot be used to fulfill the speech requirement.** This course is an elective for students who want further speech/communication instruction beyond the required speech class.

COURSE NUMBER: HS504

COURSE TITLE:

## Acting and Directing

COURSE LENGTH: Semester, One Credit

PREREQUISITE: 9th Grade Speech requirement must be met

GRADE LEVEL: 9, 10, 11, or 12

COURSE DESCRIPTION:

This course will introduce students to a variety of performance skills: acting, voice, interpretation, movement, improvisation, pantomime. Students also will be introduced to a variety of directing, performance, and acting styles. The goal of the course is to help students feel more comfortable on stage, become better actors, and understand the directing process. Some evening work may be required for rehearsal or performances.

COURSE NUMBER: HS505

COURSE TITLE:

Theater Technology and Design

COURSE LENGTH: One Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 9, 10, 11, and 12; recommended for sophomores

COURSE DESCRIPTION:

This introductory theatre course immerses students in the behind-the-scenes world of the stage. Students explore stage management and technical theatre skills such as set construction, painting and design, lighting and sound, costuming and makeup, and operation of the theatre facility. Students also study the historical development and styles of each technical area. The goal is to give students hands-on experience in producing a show. Seven hours of evening or weekend work are required to help with Fine Arts Center productions. Work clothes are needed.

COURSE NUMBER: HS509

COURSE TITLE:

American Heritage

COURSE LENGTH: Year, Four Credits

PREREQUISITE: None

GRADE LEVEL: 11

COURSE DESCRIPTION:

This is a one year course taught jointly by one history teacher and one literature teacher. It portrays the story of American culture by showing how American history and literature are interrelated.

COURSE NUMBER: HS510

COURSE TITLE:

## Composition and Communications

COURSE LENGTH: One Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 12

COURSE DESCRIPTION:

Composition and Communications is an elective course open to seniors that emphasizes the language arts skills in writing, listening, speaking, and all aspects of communicating. Expect to write every day. Writing will range from informal daily writing to various essays to a formal research paper. We will work on presentation preparation, listening skills, organizing, and prioritizing. We will explore life, college, and career preparation. **If you do not sign up for this course, you must register for Advanced Composition or College English.**

COURSE NUMBER: HS511

COURSE TITLE:

## Advanced Composition

COURSE LENGTH: Semester, One Credit

PREREQUISITE: Students must have maintained a minimum C grade in each of the following courses: English 9, English 10 and American Heritage, or successfully complete a timed essay.

GRADE LEVEL: 12

COURSE DESCRIPTION:

Advanced Composition is a **college-preparatory course** which stresses the individual development of each student's writing skills. Each student will be expected to exercise self-discipline, a willingness to take risks, and dedication to the power of the written word. Through a variety of both formal and informal writing opportunities, students will write assorted essays, and analyses, letters, research papers, and creative pieces. In addition, reading will serve as a source of inspiration and instruction. **If you do not sign up for this course you must register for Composition and Communications or College English.**

COURSE NUMBER: HS512

COURSE TITLE:

## College English

COURSE LENGTH: Year, Two Credits

PREREQUISITE: Up to 9 Credits from WITCC  
Must have earned at least a B+ in both semesters of English 9 and both semesters of English 10 **or** pass a timed essay; **Must meet the ACT English score of 22+ or CPT minimum score required by WITCC.**

GRADE LEVEL: 12

COURSE DESCRIPTION:  
College English is a full year course divided into three sections for seniors capable of doing advanced work in reading, literary analysis, and essay writing and who wish to pursue college-level studies while in high school. The first semester focuses on composition and writing as a process with attention to audience, purpose, and patterns of exposition. The second section focuses on literature and acquiring skills of literary analysis. College-level literature is read, discussed and used as a basis for writing. Emphasis is placed on the short story, poetry, and drama. The course encourages the acquisition of reading and writing skills required by colleges. Aspects of the formal research paper will be completely covered. Students will also practice writing essay tests. **Students successfully completing this course will earn six credits in composition and three credits in literature from Western Iowa Tech Community College, and these credits will transfer to every 2 or 4 year college.**

COURSE NUMBER: HS550

COURSE TITLE:

English 9

COURSE LENGTH: Year, Two Credits

PREREQUISITE: None

GRADE LEVEL: 9

COURSE DESCRIPTION:

A general survey of literature emphasizing the terms and techniques of short stories, poetry, drama, novels, and non-fiction plus additional instruction in written expression.

COURSE NUMBER: HS551

COURSE TITLE:

English 10

COURSE LENGTH: Year, Two Credits

PREREQUISITE: None

GRADE LEVEL: 10

COURSE DESCRIPTION:

Through skill-based learning and data-driven instruction, English 10 students will continue to develop literacy skills increasing in complexity by the end of the second semester per the 9-10 grade span of Iowa Core's five content areas: Reading Literature, Reading Informational Text, Speaking and Listening, Writing and Language.

COURSE NUMBER: HS555

COURSE TITLE:

**Monarch Yearbook**

COURSE LENGTH: Semester / May be taken more than once with permission of instructor.

PREREQUISITE: None

GRADE LEVEL: 10,11,12

COURSE DESCRIPTION:

During this semester course, students will produce the annual yearbook, The Monarch. During the year, students will develop skills in the following areas: group work, organization, layout and design, basic computer knowledge, writing, editing, vocabulary and photography. This course will stress both the individual growth of the student as a writer and user of technology, as well as aid in the advanced technological development of the yearbook.

## **MATHEMATICS**

COURSE NUMBER: HS601

COURSE TITLE:

**Pre-Algebra**

COURSE LENGTH: Semester, One credit

PREREQUISITE: None

GRADE LEVEL: 9, 10, 11, or 12

COURSE DESCRIPTION:

This class is designed to aid students in making the transition from basic mathematics to algebra. Pre-Algebra introduces and covers in-depth the skills, concepts, and problem solving processes that will help the student become comfortable and successful with algebra.

COURSE NUMBER: HS602

COURSE TITLE:

### Algebra I

COURSE LENGTH: Year, Two Credits

PREREQUISITE: None

GRADE LEVEL: 9, 10, 11, or 12

COURSE DESCRIPTION:

This course is designed for all students. It is the study of basic equations, inequalities, graphs and their use in problem solving. Material for the course is taken mainly from a text with some supplementary material provided by the instructor.

COURSE NUMBER: HS603

COURSE TITLE:

### Geometry

COURSE LENGTH: Year, Two Credits

PREREQUISITE: Successful completion of Algebra 1.

GRADE LEVEL: 9, 10, 11, or 12

COURSE DESCRIPTION:

Geometry is a math course designed for all students. Topics studied include: congruent triangles, parallel and perpendicular lines, quadrilaterals, right triangles and trigonometry, circles, polygons and area, coordinate geometry, and transformations.

COURSE NUMBER: HS604

COURSE TITLE:

### Algebra II

COURSE LENGTH: Year, Two Credits

PREREQUISITE: Successful completion of Geometry or instructor's approval.

GRADE LEVEL: 10, 11, or 12

COURSE DESCRIPTION:

Algebra II includes review of Algebra I skills with emphasis on solving open sentences. This course is designed for all students. Topics studied include equations and inequalities, linear relations and functions, systems, matrices, polynomials, irrational and complex numbers, quadratic equations, quadratic relations and functions, and polynomial functions.

COURSE NUMBER: HS605

COURSE TITLE:

### Math Analysis

COURSE LENGTH: Year, Two Credits

PREREQUISITE: Completion of Algebra II.

GRADE LEVEL: 11 or 12

COURSE DESCRIPTION:

Math Analysis is a course that will benefit any student who plans to enter a field involving mathematics. It is also needed for some trade, technical, and military fields. Topics studied include linear relations and functions, systems, graph theory, trigonometric functions, trigonometric graphs and inverses, trigonometric identities and equations, vectors, parametric equations, polar coordinates, and complex numbers.

COURSE NUMBER: HS607

COURSE TITLE:

### Calculus I

COURSE LENGTH: Year, Two Credits - High School Up to 5 credits from WITCC-MAT-211

PREREQUISITE: A grade of C- or better in Analysis or approval from current math instructor.

GRADE LEVEL: 12

COURSE DESCRIPTION:

This course presents a complete study of a first year college calculus class. It is intended for students who would like to be thoroughly prepared for college mathematics, review for college entrance examinations, or simply study more mathematics. Topics include logarithmic functions, limits and continuity, derivatives and their application, the definite and improper integrals and their application and infinite series.

COURSE NUMBER: HS612

COURSE TITLE:

### Calculus II

COURSE LENGTH: Year, Two Credits - High School

Up to 5 credits from WITCC-MAT-212

PREREQUISITE: Semester 1 - Achieving a grade of C- or better in second semester Calculus I or instructor's approval

Semester 2 - Achieving a grade of C- or better in first semester  
Calculus II or instructor's approval

GRADE LEVEL: 12

COURSE DESCRIPTION:

This course presents a continued study of a first year college calculus class. It is intended for students who would like to be thoroughly prepared for college mathematics, review for college entrance examinations, or simply study more mathematics. Topics include differential equations, application of integration, integration techniques, infinite series, conics, parametric equations, and polar coordinates.

COURSE NUMBER: HS608

COURSE TITLE:

**Probability and Statistics**

COURSE LENGTH: One Semester, One Credit

PREREQUISITE: Successful completion of Algebra II or Instructors Approval

GRADE LEVEL: 11 or 12

COURSE DESCRIPTION:

Probability and Statistics is designed for those students who plan to enter such fields as economics, business, education, psychology, sociology, biology, medicine, mathematics, physical science or the engineering sciences. All of these areas of study now require statistics for their effective pursuit. Successful completion of this course will provide adequate preparation for the usual college courses offered in these disciplines.

COURSE NUMBER: HS610

COURSE TITLE:

**Applied Algebra**

COURSE LENGTH: Year, Two Credits

PREREQUISITE: Passed two years of math

GRADE LEVEL: 12

COURSE DESCRIPTION:

This course is designed for students who have passed Algebra I. Students will also apply the concepts studied in Algebra and Geometry to real world situations. Individuals will be scheduled into this course based on their performance level indicated by teachers within the math department.



Topics covered include systems of equations, linear programming, right triangle trigonometry, surface area and volume, statistics, & probability.

## INSTRUMENTAL / VOCAL MUSIC

COURSE NUMBER: HS700

COURSE TITLE:

### Instrumental Music

COURSE LENGTH: Year, Two Credits

PREREQUISITE: Available to all students who in the past have been involved in instrumental music. All who participate in Concert Band must also participate in the Marching Band and Pep Bands.

GRADE LEVEL: 9, 10, 11, 12

COURSE DESCRIPTION:

Music Performance Courses:

**A. CONCERT BAND** includes all members and meets every other day for 90 minutes. Performances include the Holiday Concert, the Late Winter Concert, Spring Concert, State Large Group Contest, Graduation and the Memorial Day Service. Assemblies are given throughout the year for the K-8 students. Members are encouraged to participate in the Solo and Small Ensemble Contest, All-State Auditions, and various honor bands. Each student receives one 15 minute lesson per week.

**B. MARCHING BAND** is required of all members and meets every other day for 90 minutes during the first 9 weeks of school. The Marching Band may also meet before school throughout the Marching Band Season. Performances include all home football games, playoffs, the Homecoming Parade, and the Schleswig Calf Show Parade.

**C. PEP BAND** is required of all members and is rehearsed during Marching and Concert Band time. Performances include 10 home basketball games and pep assemblies.

**D. JAZZ I** is the elite jazz ensemble which is open to members of the band by audition. Instrumentation of the group includes: 5-7 saxophones, 4-5 trombones, 4-5 trumpets, and 3-4 rhythm section players (drums, piano, bass guitar). The group meets on Tuesdays, Thursdays, and alternate Fridays before school. Sectional rehearsals may also be included and meet at a time determined by the Director. Performances include Jazz 2014, Night of Jazz, IHSMA State Jazz Band Festival, several jazz competitions, and various community events.

**E. JAZZ II** is a group which consists of students interested in developing a strong foundation in the Jazz idiom when proper instrumentation is available. Performances include Jazz 2014 and various jazz competitions.

**E. MARIACHI REYES DEL OESTE** is a selective ensemble made up of 20-30 musicians playing violin, flute, trumpet, guitar, vihuela and guitarron. The mariachi will be selected by audition, if necessary, and will rehearse during seminar on "B" Days. The group will study and perform traditional Mexican mariachi music. Performance opportunities vary year to year, and may include multiple out of town performances.

COURSE NUMBER: HS720 (9th)  
HS722 (10th)

COURSE TITLE:

**Junior Varsity Choir, Letter Grade Credit**

COURSE LENGTH: Year, Two Credits

PREREQUISITE: None

GRADE LEVEL: 9, 10

COURSE DESCRIPTION:

This class is open to all freshmen and sophomores that demonstrate a sincere desire to sing. Students will learn to read music and will learn good singing techniques. They will prepare and present four major concerts a year plus participate in the fall musical if offered. Students demonstrating exceptional abilities may audition for All-State in the fall semester and Solo/Ensemble contest held in the spring semester. This choir also participates in State Large Group Contest held each May. Vocal lessons (private or group) are required for all students and will be scheduled during the day or after school. One credit per semester is given for this course.

COURSE NUMBER: HS721 (9th)  
HS723 (10th)

COURSE TITLE:

**Junior Varsity Choir, Pass/Fail**

COURSE LENGTH: Year, Two Credits

PREREQUISITE: None

GRADE LEVEL: 9, 10

COURSE DESCRIPTION:

This class is open to all freshmen and sophomores that demonstrate a sincere desire to sing. Students will learn to read music and will learn good singing techniques. They will prepare and present four major concerts a year plus participate in the fall musical if offered. Students demonstrating exceptional abilities may audition for All-State in the fall

semester and Solo/Ensemble contest held in the spring semester. This choir also participates in State Large Group Contest held each May. One credit per semester is given for this course. This is a Pass/Fail version of the regular course. **Expectations for lessons, daily work and testing will be different than the letter grade version of J.V. Chorus.**

COURSE NUMBER: HS724 (11th)  
HS726 (12th)

COURSE TITLE:

**Varsity Choir, Letter Grade Credit**

COURSE LENGTH: Year, Two Credits

PREREQUISITE: None

GRADE LEVEL: 11, 12

COURSE DESCRIPTION:

This class open to all students grades 11-12 that demonstrate a sincere desire to sing. Students will learn to read music, and will learn good singing techniques. They will prepare and present four major concerts a year plus participate in the fall musical if offered. Students demonstrating exceptional abilities may audition for All-State in the fall semester and Solo/Ensemble contest held in the spring semester. This choir also participates in State Large Group Contest held each May. Vocal lessons (private or group) are required for all students, and will be scheduled during the day or after school. One credit per semester is given for this course.

COURSE NUMBER: HS725 (11th)  
HS727 (12th)

COURSE TITLE:

**Varsity Choir, Pass/Fail**

COURSE LENGTH: Year, Two Credits

PREREQUISITE: None

GRADE LEVEL: 11, 12

COURSE DESCRIPTION:

This class open to all students grades 11-12 that demonstrate a sincere desire to sing. Students will learn to read music, and will learn good singing techniques. They will prepare and present four major concerts a year plus participate in the fall musical if offered. Students demonstrating exceptional abilities may audition for All-State in the fall semester and Solo/Ensemble contest held in the spring semester. This choir also participates in State Large Group Contest held each May. Vocal lessons

(private or group) are optional for Pass/Fail students, and will be scheduled during the day or after school. One credit per semester is given for this course. **This is a Pass/Fail option of letter grade Varsity Choir. Expectations for lessons and testing will be different.**

COURSE NUMBER: HS706

COURSE TITLE:

### Music Theory I

COURSE LENGTH: Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 9-12

COURSE DESCRIPTION:

Music Theory I teaches students music fundamentals necessary to compose music. Students will read and write pitches in all clefs, major and minor scales, key signatures and scale degrees, triads, all intervals, and rhythmic notation.

COURSE NUMBER: HS707

COURSE TITLE:

### Music Theory II

COURSE LENGTH: Semester, One Credit

PREREQUISITE: Music Theory I or permission of instructor

GRADE LEVEL: 9-12

COURSE DESCRIPTION:

Music Theory II teaches students an understanding of the principles of diatonic tertian harmony as they pertain to "common practice" of the 17th and 18th centuries. Students will read and write four-part chords, primary triads in root position, inversions of primary triads, secondary triads, non-harmonic tones, and seventh chords, while also learning to harmonize melodies and write music for the piano.

COURSE NUMBER: HS708

COURSE TITLE:

### Music Theory III

COURSE LENGTH: Semester, One Credit

PREREQUISITE: Music Theory II

GRADE LEVEL: 10, 11 or 12

COURSE DESCRIPTION:

Music Theory III teaches students an understanding of the principles of chromatic harmony as they pertain to "common practice" of the 18th and

19th centuries. Students will read and write secondary dominants, secondary diminished seventh chords, augmented sixth chords, modal changes, Neapolitan sixth chords, pedal point non-harmonic tones, and modulations.

COURSE NUMBER: HS709

COURSE TITLE:

### Music Theory IV

COURSE LENGTH: Semester, One Credit

PREREQUISITE: Music Theory III

GRADE LEVEL: 10, 11 or 12

COURSE DESCRIPTION:

Music Theory IV teaches students important harmonic procedures of the 20th and 21st centuries. Students will read and write 9th, 11th, and 13th chords, chord symbols, modal harmony, nonfunctional harmony, artificial scales, non-tertian harmony, twelve-tone serials, new notational systems, and electronic music.

## PHYSICAL EDUCATION

**Juniors and seniors who are in a sport three seasons during the school year can choose not to take physical education. If a student discontinues participating in a sport before the end of a season, the student will be enrolled in physical education for the next semester. If sufficient time to complete the course does not exist, the student will have to double up on PE the next year.**

COURSE NUMBER: HS815

COURSE TITLE:

### Physical Education 10 - 11

COURSE LENGTH: Semester, One-half Credit

PREREQUISITE: None

GRADE LEVEL: 10 & 11

COURSE DESCRIPTION:

One semester of physical education taught every other day in a 90 minute block is required. This course consists of dual, individual and team sports. Dual and individual activities include pickle ball, table tennis, badminton, etc. Team sports activities include volleyball, softball, etc. Co-ed activities are offered whenever possible.

COURSE NUMBER: HS816

COURSE TITLE:

Lifetime Wellness (P.E. 9 & Health)

COURSE LENGTH: Semester, One and a half Credit

PREREQUISITE: None

GRADE LEVEL: 9

COURSE DESCRIPTION:

Lifetime wellness is a course required for all freshmen. This course is based on enhancing self-esteem by promoting personal fitness, becoming aware of the effects of alcohol, tobacco, and drugs on the body, disease characteristics including STD's, and the value of proper nutrition.

COURSE NUMBER: HS817

COURSE TITLE:

P.E. (12)

COURSE LENGTH: Semester, One-half Credit

PREREQUISITE: None

GRADE LEVEL: 12

COURSE DESCRIPTION:

Outdoor education is a course that is offered for only seniors and will meet every other day for one block. Most activities will be related to the outdoors in some way or another. Some of the units to be covered will be: First Aid & CPR, water safety, kayaking & canoeing, archery, orienteering, hiking, camping, fishing, and other outdoor/indoor games and activities. Some of the units from 10-11 Physical Education will be used throughout the semester. If seniors can not work this into their schedule they will be allowed to take 10-11 Physical Education.

COURSE NUMBER: HS818

COURSE TITLE:

Advanced Weight Training

COURSE LENGTH: Semester, One-half Credit

PREREQUISITE: None

GRADE LEVEL: 10, 11, 12

COURSE DESCRIPTION:

The emphasis in this course is on muscular strength, muscular endurance, flexibility, overall fitness, and safety. The core lifts in this course include bench press, squats, and hang clean. Weight room safety, important components in this course. In addition, students will monitor and improve their fitness levels by participating in the Fitnessgram

assessments and one repetition maximum testing throughout the semester. Students will leave the class with a lifelong understanding of how to maintain adequate physical fitness for a healthy lifestyle. \*This course will take place of the PE 10-11 or PE 12 course. Seniors, Juniors, and Sophomores are eligible to take Weightlifting, with priority given to Upperclassmen.

COURSE NUMBER: HS819

COURSE TITLE:

### Fitness Extreme

COURSE LENGTH: Semester, One-half Credit

PREREQUISITE: None

GRADE LEVEL: 10, 11, 12

COURSE DESCRIPTION:

The emphasis in this course is on overall fitness. Warm-up/cool-down procedures, exercise techniques, safety, and individual goal setting are all important components in this course. In addition, students will monitor and improve their fitness levels by participating in the Fitnessgram assessments throughout the semester. Students will leave the class with a lifelong understanding of how to maintain adequate physical fitness for a healthy lifestyle. Some activities in this class include Jillian Michaels 30 Day shred, Kickboxing, Zumba, Step Aerobics, Yoga, Tae-Bo, Pilates, T25, Kettlebell, Medicine ball, and current workout trends. \*This course will take place of the PE 10-11 or PE 12 course. Seniors, Juniors, and Sophomores are eligible to take Fitness extreme, with priority given to upperclassmen.

# SCIENCE

COURSE NUMBER: HS900

COURSE TITLE:

## Introduction to Chemistry

COURSE LENGTH: Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 9

COURSE DESCRIPTION:

Introductory Chemistry, is a required course for ninth grade students. The semester will be devoted to introducing the basics of Chemistry.

COURSE NUMBER: HS903

COURSE TITLE:

## Biology

COURSE LENGTH: Year, Two Credits

PREREQUISITE: None

GRADE LEVEL: 10, 11, or 12

COURSE DESCRIPTION:

The first semester will include units on the characteristics of life, biochemistry, cells, cell transport, and genetics. The second semester focuses on living systems, dissections, and plants.

COURSE NUMBER: HS904

COURSE TITLE:

## Chemistry

COURSE LENGTH: Year, Two Credits

PREREQUISITE: Passed Algebra I with a C+ or better and be taking or passed Geometry

GRADE LEVEL: 11 or 12

COURSE DESCRIPTION:

This course is designed for the student planning to pursue college of any type. This course will cover the basics of Chemistry.



COURSE NUMBER: HS905

COURSE TITLE:

### Advanced Chemistry

COURSE LENGTH: Year, Two Credit

PREREQUISITE: At least a B in Chemistry, Algebra II w/instructor approval

GRADE LEVEL: 12

COURSE DESCRIPTION:

Advanced Chemistry is aimed at preparing students who are planning to go into a health/science related career and will be taking many science classes in college.

COURSE NUMBER: HS907

COURSE TITLE:

### Anatomy & Physiology

COURSE LENGTH: Semester, One Credit

PREREQUISITE: Chemistry

GRADE LEVEL: 11(with teacher permission) & 12

COURSE DESCRIPTION:

Anatomy and Physiology is a **college** preparatory course designed for seniors and juniors with a high interest in science. This course will be mainly laboratory oriented in which a mammal will be dissected and a variety of physiology labs will be performed. The goal of the course is to give the students a better insight into anatomy and physiology and methods of studying these areas. At the same time it is felt that experiences gained in the course will help create the necessary attitudes and study habits needed for a student to succeed in higher education.

COURSE NUMBER: HS908

COURSE TITLE:

### Biotechnology

COURSE LENGTH: Semester, One Credit

PREREQUISITE: Biology

GRADE LEVEL: 11 or 12

COURSE DESCRIPTION:

Biotechnology is a one semester course that builds upon the genetics covered in Biology. The course focuses on new, emerging technologies in biotechnology, the role of biotechnology in modern society, and the ethical concerns of the application of and continued research in this branch of biology. Biotechnology is a very lab intensive class.

COURSE NUMBER: HS909

COURSE TITLE:

### Physics

COURSE LENGTH: Year, Two Credits

PREREQUISITE: Algebra II. Chemistry is recommended, but not required

GRADE LEVEL: 11 or 12

COURSE DESCRIPTION:

Physics is the study of energy in its various forms. About one-third of the course is devoted to the study of motion, force and work. About one-third is devoted to heat, light, sound and wave phenomena. The remaining third of the course is spent on electricity.

COURSE NUMBER: HS910

COURSE TITLE:

### Honors Biology

COURSE LENGTH: Year, Two Credits

PREREQUISITE: Demonstrates the ability and desire to excel in an accelerated course. If a student enrolled in Honors Biology is not performing to expected standards, that student will be required to drop the class at the end of the first semester. If a student in the Biology class is excelling in that class, he/she will be invited to enroll in the Honors Biology class for second semester.

GRADE LEVEL: 10, 11, or 12

COURSE DESCRIPTION:

The first semester will include units on characteristics of life, biochemistry, cells, cell transport, and genetics. The second semester focuses on living systems, dissections, and plants. The honors program will be taught at a more vigorous pace than the biology course. This will allow more time for laboratory work and added content.

COURSE NUMBER: HS911

COURSE TITLE:

### Environmental Science

COURSE LENGTH: One Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 9

COURSE DESCRIPTION:

Environmental Science is a one credit required science course. The course is to be taken during the freshmen year of instruction. Through taking Environmental Science, the student will better understand the world, its inhabitants, and their interconnections. The focus will be on life forms, resources, and the systems and relationships which emerge through the interactions of the inhabitants of planet Earth. Historical, contemporary, and futuristic themes will be established. An emphasis will be made on the role of humans in becoming more responsible "Global Citizens." The structure of Environmental Science centers around four themes: 1. Resources of the Earth, 2. People as Products of Their Environment, 3. The Struggle for Survival, 4. Challenges of the Future on Earth and in Space.

COURSE NUMBER: HS912

COURSE TITLE:

### Astronomy

COURSE LENGTH: Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 10, 11, 12

COURSE DESCRIPTION:

Astronomy is a one semester class focusing on the features of and processes at work in the universe. Attention is given to the formation of the universe and methods used to make near and deep space observations. Time will be spent explaining the workings of our solar system and the life cycles of stars. We will consider the future of human and robotic space flight and the possibilities of off-Earth settlements.

## SOCIAL STUDIES

COURSE NUMBER: HS118

COURSE TITLE:

### Economics

COURSE LENGTH: Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 12

COURSE DESCRIPTION:

Economics has some very practical applications. You will all buy products, take out car loans and may dabble in the stock market. All of these are covered in this course, as well as basic economic concepts; a

survey of micro economics focusing on the consumer, business, government, labor, and agriculture; a survey of macroeconomics to include measurements of the economy, money and banking, investments, the stock exchange, taxation, and monetary and fiscal policy. All effect in one way or another something very important to all Americans... the money in your wallet! Economics is philosophical as well as practical so there is a little for everybody. Some possibilities for careers based on this course might be all business fields, government positions, education, and international trade. This course is strongly recommended for students interested in a business career.

COURSE NUMBER: HS1005

COURSE TITLE:

### American Government

COURSE LENGTH: Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 12

COURSE DESCRIPTION:

American Government is a required course. It is a survey of the foundations of American government, the American political system, the major institutions of the federal government, and a brief overview of state and county government. Students must choose and complete various units designed to introduce and involve themselves in the government and its activities. Some career areas that this course would benefit might be politics, civil service, education, military, foreign relations, and business. **Students may enroll in either this course or College American Government.**

COURSE NUMBER: HS1006

COURSE TITLE:

### Psychology

COURSE LENGTH: Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 11 or 12

COURSE DESCRIPTION:

This course is suggested for college-bound students who are interested in the study of human behavior. Areas of concentration include: experimental techniques; learning; memory; personality theories, and development; psychotherapy; and testing. This course will help students better understand their behavior and the behavior of others. This course

will help fill a social studies elective. The course will be helpful if you wish to become a Psychiatrist, psychologists, counselor, social worker, clergy, teacher and others who dispense a great deal of advice.

COURSE NUMBER: HS1007

COURSE TITLE:

## Sociology

COURSE LENGTH: Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 11 or 12

COURSE DESCRIPTION:

This course is suggested for college-bound students who are interested in the study of man's relation to man. Areas of concentration will include: development of cultures, organizing social life (groups and deviant behavior); social class structure; man's social role in the basic institutions (family, community, and religion); and the changing society (population, urban life, and social movements). This course will fill a social studies elective. It will be helpful if you wish to become a sociologist, a social worker, counselor, teacher, work in a personnel department or any position that needs understanding of human behavior.

COURSE NUMBER: HS1092

COURSE TITLE:

## College Psychology (WITCC PSY 111 Introduction to Psychology)

COURSE LENGTH: Semester, One Credit High School

Semester, Three Credits College via WITCC

PREREQUISITE: 1 - Counselor Recommendation  
2 - Recommendation of High School Social Studies Dept.  
3 - Reading level score of 12+ on Reading Core category for Iowa assessments

GRADE LEVEL: 10, 11, 12

COURSE DESCRIPTION:

**This course is a dual credit class with WITCC.** This course provides an overview of the study of human behavior with emphasis in the areas of biological mechanisms, development, sensation, learning and memory, motivation, therapy and social influence. The course stresses the impact of both theoretical perspectives and experimental evidence on the formulation of human behavior. Psychological theories and principles are utilized to explain and predict behavior. **This course will transfer to a**

**community college 2 year program and may fulfill an elective requirement for a four year college. Students successfully completing this course will earn 3 credits.**

COURSE NUMBER: HS1016

COURSE TITLE:

**American Government (College) (WITCC: POL 111  
American National Government)**

COURSE LENGTH: Semester, One Credit Semester, Three Credits College via WITCC

PREREQUISITE: Counselor Recommendation

GRADE LEVEL: 12

COURSE DESCRIPTION:

**This course is a dual credit class with WITCC.** American Government is a required course. This is taught as a dual credit course through Western Iowa Technical Community College. Materials covered are undergraduate college level. It is a survey of the foundations of American government, the American political system, the major institutions of the federal government, as well as political theory and public policy. Students must choose and complete various units designed to introduce and involve themselves in the government and its activities. Some career areas that this course would benefit might be politics, civil service, education, military, foreign relations, and business. **This course will transfer to a community college 2 year program and may fulfill an elective requirement for a four year college. Students successfully completing this course will earn 3 college credits.**

COURSE NUMBER: HS1022

COURSE TITLE:

**Western Civilization 1: Classical & Medieval Europe**

COURSE LENGTH: Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 10, 11, or 12

COURSE DESCRIPTION:

Could you ever believe the world was once controlled by jealous and selfish gods and goddesses? Do castles moats and flying buttresses in cathedrals inspire you? Do you have a secret desire to relive the lives of a Spartan Warrior, a Roman Statesman, a Knight in battle, or a Lady In Waiting? The goal of this course is to show the development of western

civilization from early man to the Middle Ages. Europe's social, political, and economic changes as well as its art, religion, music, and architecture will be observed by studying Greece, Rome, the Middle Ages. The study of archeology will also be explored in this course. Students may take Western Civ I, Western Civ 2, Western Civ 3, or Honors Western Civ.

COURSE NUMBER: HS1023

COURSE TITLE:

## Western Civilization II: Renaissance, Reformation, and Revolution

COURSE LENGTH: Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 10, 11, or 12

COURSE DESCRIPTION:

The goal of this course is to show the development of western civilization starting with the Renaissance and men like Michelangelo and DaVinci, then joining Martin Luther with the Reformation and culminating with cannons flying and heads being lost in the French Revolution. Europe's social, political, and economic changes as well as its art, religion, music, and architecture will be observed by studying this fascinating time period in history, and the rise of modern nations. Students may take Western Civ I, Western Civ 2, Western Civ 3, or Honors Western Civ.

COURSE NUMBER: HS1024

COURSE TITLE:

## Western Civilization III: War, Power, and Conflict

COURSE LENGTH: Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 10, 11, or 12

COURSE DESCRIPTION:

Have you heard about the Great War, World War II and the slaughter of six million Jews? Do you wonder what life was like under the threat of possible nuclear annihilation? Are you concerned with the prospect of never achieving world peace? This course is about Europe with special emphasis placed on World War I, World War II, the Holocaust, the Soviet Union, the Cold War, and continual global conflict in the 21st Century. Students may take Western Civ 1, Western Civ 2, Western Civ 3, or Honors Western Civ.

COURSE NUMBER: HS1030

COURSE TITLE:

### Global Studies

COURSE LENGTH: One Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 9

COURSE DESCRIPTION:

Global Studies is a one credit required course; one credit will be granted in the Social Studies department upon completion of the course. The course is to be taken during the freshman year of instruction. Through Global Studies the student will better understand the world and its interconnections. Historical, contemporary, and futuristic themes will be established. An emphasis will be made on the role of humans becoming more responsible "Global Citizens".

COURSE NUMBER: HS1088

COURSE TITLE:

### Western Civilization: Early Modern to Present (College)

COURSE LENGTH: Semester, One Credit and 3 Credits WITCC

PREREQUISITE: 1 - Counselor Recommendation 2 - Recommendation of High School Social Studies Dept. 3 - Reading level score of 12+ on Reading Core category for ITEDs.

GRADE LEVEL: 10, 11, or 12

COURSE DESCRIPTION:

**This course is a dual credit class with WITCC.** The course surveys Western history from the Age of European Exploration to the present. **This course will transfer to a community college 2 year program and may fulfill an elective requirement for a four year college. Students successfully completing this course will earn 3 college credits.**

COURSE NUMBER: HS509

COURSE TITLE:

### American Heritage

COURSE LENGTH: Year, Four Credits

PREREQUISITE: None

GRADE LEVEL: 11

COURSE DESCRIPTION:



This is a one year course taught jointly by one history teacher and one literature teacher. It portrays the story of American culture by showing how American history and literature are interrelated.

## HEALTH

COURSE NUMBER: HS1101

COURSE TITLE:

### Health

COURSE LENGTH: Semester, One Credit

PREREQUISITE: None

GRADE LEVEL: 9, 10, 11, 12

COURSE DESCRIPTION:

The course will be based on enhancing and promoting the students' self-esteem by making them more aware of mental health, anger and stress management, and how to build positive relationships. Also included is a small unit on CPR. Health is a course that is used on a daily basis by everyone in our society at least to a certain degree. More specifically it could be used by individuals interested in careers in education and a wide array of positions in the health and medical fields. **Students successfully completing Lifetime Wellness and Health will also receive one semester of science credit towards meeting the graduation requirement of three years. It will not meet the science admission requirements of most colleges. Completing Ag. I, II & III will not be allowed to count as a semester of science towards graduation for these students.**

## APPRENTICESHIP / CADET

COURSE NUMBER: HS1200

COURSE TITLE:

### Career Apprenticeship

COURSE LENGTH: Semester or Year

**Students can only be enrolled in one off campus work site per semester. For example: If a student is interested in business and in a teaching field, one semester of the senior year could be devoted to an exploration site and one semester could be devoted to a cadet teaching site. If a student is interested in business and the medical field, that student may spend one semester at a business site and one semester in a medical field but will not be able to participate in the cadet teaching program. If**

**a student is interested in teaching, they can enroll for both semesters in the cadet teaching program, but will not be eligible for an apprenticeship placement. Those wanting an exception must appeal to Mr. Torr.**

**PREREQUISITE:**

The student must:

1. be a senior eligible for graduation with his/her class
2. complete and return an application form and be accepted into the program based on their attendance and discipline record
3. after being accepted, must arrange for a work experience/ apprenticeship which meets qualifications and interests of the student in relation to his/her career objectives and the ability of the job site to provide an appropriate learning experience.

**GRADE LEVEL:**

12

**COURSE DESCRIPTION:**

This course provides a senior the opportunity to learn more about a particular occupation of interest. Students will receive on-the-job training and career exposure provided by a job mentor. This experience is designed for students who have demonstrated an interest in a particular occupation or field through the results of interest inventory tests, and/or having prepared for a career in a particular field due to the types of courses taken in high school, i.e., a student has taken several business courses and therefore would find a mentor in an office or financial institution. Students may elect to participate for one or both semesters and the time spent at the worksite will be based on a student's interests, scheduling opportunities, and availability of the on-the-job experience. Students will receive pass/fail credit. This educational experience is not meant as a regular employment, therefore, students will not be paid.

**COURSE NUMBER:**

HS1201

**COURSE TITLE:**

**Cadet Teaching**

**COURSE LENGTH:**

Semester or Year

**Students can only be enrolled in one off campus work site per semester. For example: If a student is interested in business and in a teaching field, one semester of the senior year could be devoted to an apprenticeship site and one semester could be devoted to a cadet teaching site. If a student is interested in business and the medical field, that student may spend one semester at a business site and one semester in a medical field but will not be able to participate in the cadet teaching program. If a student is interested in teaching, they can**

**enroll for both semesters in the cadet teaching program, but will not be eligible for an apprenticeship placement.**

PREREQUISITE: None

GRADE LEVEL: 12

COURSE DESCRIPTION:

Seniors who are interested in pursuing a career in education or related fields such as child development, nanny, social work, teaching, nursing and child care are encouraged to become a cadet. To become a cadet, a senior must be interested in working with students. He or she must be in good academic standing. Also a student must continue to display a positive behavior and image as they are to be positive role models. Students may sign up for one or two semesters during their senior year.

## DRIVER EDUCATION

COURSE NUMBER HS1300

COURSE TITLE:

Summer Traffic Education

COURSE LENGTH: Length Varies, One/half Credit (Grade not factored into the Grade Point Average)

PREREQUISITE: None

GRADE LEVEL: 9, 10, 11, 12

COURSE DESCRIPTION:

This course is designed to provide the knowledge and skills necessary to obtain a driver's license. **It is a requirement that a student must be 14 years of age and have a learner's permit when the session begins.** Six hours of behind-the-wheel and 30 hours of classroom instruction must be completed to fulfill the class objectives. Classes and driving will be scheduled throughout the week and on Saturdays, so students should not have any summer commitments during this time. **There is a fee for this course.**

COURSE NUMBER HS1301

COURSE TITLE:

Late Summer/ Fall Traffic Education (Not during the school day)

COURSE LENGTH: Length Varies, One/half Credit (Grade not factored into the Grade Point Average)

PREREQUISITE: None

GRADE LEVEL: 9, 10, 11, 12

COURSE DESCRIPTION:

This course is designed to provide the knowledge and skills necessary to obtain a driver's license. **It is a requirement that a student must be fourteen years of age and have a learner's permit when the session begins.** Six hours of behind-the-wheel and 30 hours of classroom instruction must be completed to fulfill the class objectives. This course will be taught throughout the week after school and on weekends, so students should **not** be involved in fall activities. It usually begins near the first week in August. **There is a fee for this course.**

## HEALTH EDUCATION

COURSE NUMBER: HS1400

COURSE TITLE:

Introduction to Health Occupations (WITCC Program: Health Occ.)

COURSE LENGTH: Meets 90 Minutes -Daily

PREREQUISITE: None

CREDITS: High School- 2 credits WITCC--Health Occupations Program--3 credits

GRADE LEVEL: 11, 12

COURSE DESCRIPTION:

**HSC 109 Health Careers and Teams - 3 Credits** Presents characteristics and skills that are needed in the preparation and employability of persons in the health care setting. Provides an overview of the health care industry, current health care trends/issues, and options for career choices. Discusses the work environment as it relates to health and safety regulations.

COURSE NUMBER: HS1403

COURSE TITLE:

Medical Terminology (WITCC Program: Health Occupations)

COURSE LENGTH: Semester  
PREREQUISITE: Intro to Health Occupations is strongly suggested.  
CREDITS: High School--1 Credit WITCC--3 credits Meets every other day for one block during the spring semester.

GRADE LEVEL: 11, 12

COURSE DESCRIPTION:

**HSC 114 Medical Terminology (3 semester credits)** This self-directed learning course introduces professional medical vocabulary through study of word elements, spelling, pronunciation via audio cassettes, specialized diagnosis and treatment terms. Includes all body systems, diagnostic procedures and basic pharmacology. This presents medication terminology as the language of medicine. Studies spelling, pronunciation and usage, emphasis on word analysis and construction of definitions.

**This course will transfer to a community college 2 year program and may fulfill an elective requirement for a four year college.**

COURSE NUMBER: HS1404

COURSE TITLE:

**EMS/First Responder (WITCC Program: Emergency Medical Services)**

COURSE LENGTH: Every other day for 90 minute

PREREQUISITE: Intro to Health Occupations is strongly suggested.

CREDITS: 1 Credit-High School 2 Credits-WITCC EMS 114

GRADE LEVEL: 11, 12

COURSE DESCRIPTION:

**EMS 110 EMS/First Responder (2 semester credits)** This course emphasizes the development of student skills in emergency medical care procedures. Includes life threatening emergencies, injuries to various body parts, techniques of moving patients, CPR-BLS, Mandatory Reporter, and blood borne pathogens. Successful completion of course requirements allows student to write certification examination for EMS First Responder. **This course will transfer to a community college 2 year program and may fulfill an elective requirement for a four year college.**

# CONSTRUCTION TRADES

COURSE NUMBER: HS457

COURSE TITLE:

Introduction to VersaCAD (WITCC Program:  
Mechanical Engineering Technology)

COURSE LENGTH: Semester -- 90 minutes every other day, One Credit  
WITCC - Two Credits

PREREQUISITE: Drafting Fundamentals

GRADE LEVEL: 11, 12

COURSE DESCRIPTION:

**This is a Dual Credit course taught by WITCC.** Students apply background, theory, knowledge, design concepts, and skills of conventional drafting to using a computer drafting system for the creation of engineering drawings. This course is an introduction to computer-aided drafting with the use of VersaCAD software. The student will learn VersaCAD's basic commands and progress to specific command sequence operations. \*\* See WITCC College Catalog for Course Descriptions, Program Overview, Career Outlook, and Program Outcomes. **This course will transfer to a community college 2 year program and may fulfill an elective requirement for a four year college.**

COURSE NUMBER: HS1505

COURSE TITLE:

Welding I (WITCC Program: Welding)

COURSE LENGTH: Semester - 90 minutes every other day

PREREQUISITE: None

GRADE LEVEL: 11 or 12

LOCATION: High School

CREDITS EARNED: WEL 120 Oxy Fuel Welding and Cutting (2 Sem. CRS)

COURSE DESCRIPTION:

This is a dual credit course taught by WITCC. A combined lecture and lab course. Presents basic welding fundamentals, the operation of oxy fuel welding and cutting equipment, and safety practices. Includes fusion welding and brazing on light gauge metals, cutting on heavy and light gauge metals, and welding of small diameter pipe.

COURSE NUMBER: HS1506

COURSE TITLE:

### Welding II (WITCC Program: Welding)

COURSE LENGTH: Semester - 90 minutes every other day

PREREQUISITE: None

GRADE LEVEL: 11 or 12

LOCATION: High School

CREDITS EARNED: WEL 147 ARC Welding Intro (SMAW) (3 SEM CRS)

COURSE DESCRIPTION:

This is a dual credit course taught by WITCC. This is the first of two courses designed for students to prepare for the American Welding Society Certification. A combined lecture and lab course. Studies safety, heat settings, polarity, and the proper selection of electrodes in the arc welding process. Covers welding on carbon steel plate using visual and destructive methods of determining weld quality to AWS Standards.

COURSE NUMBER: HS1507

COURSE TITLE:

### Welding III (WITCC Program: Welding)

COURSE LENGTH: Semester - 90 minutes every other day

PREREQUISITE: Welding II

GRADE LEVEL: 11 or 12

LOCATION: High School

CREDITS EARNED: WEL 148 ARC Welding Intermediate (SMAW) (3 SEM CRS)

COURSE DESCRIPTION:

This is a dual credit course taught by WITCC. This is the second of two courses designed for students to prepare for the American Welding Society Certification. A combined lecture and lab course. Studies safety, heat settings, polarity, penetration welding, horizontal and vertical welding, and the proper selection of electrodes in the arc welding process. Covers welding on carbon steel plate using visual and destructive methods of determining weld quality to AWS standards.

# AUTO BODY AND MECHANICS

COURSE NUMBER: HS1600

COURSE TITLE:

Fundamentals of Auto (WITCC Program: Automotive Technology)

COURSE LENGTH: Year - 90 Minute Daily High School - 4 Credits Western Iowa Tech Community College - 8 Credits if both semesters are taken.

PREREQUISITE: Power and Energy

GRADE LEVEL: 11, 12

LOCATION: Auto Tech Center

CREDITS EARNED: AUT 104 Automotive Technology (4 SEM CRS) AUT 615 Automotive Electricity / Electronics (4 SEM CRS)

COURSE DESCRIPTION:

**This is a Dual Credit course taught by WITCC.** The first semester of this course is designed to provide basic instruction in shop skills including precision measuring, hand tool use, power tool use, fittings, fasteners, and related shop equipment. Basic electronic fundamentals of electricity to include series, parallel & series parallel circuits, use of ohms law, basic operation of batteries ignition systems, and charging systems also covered is competent identification, fundamental operating principles, theory and design in the basics of gasoline and diesel engines. Shop safety practices in each area of study will be emphasized. The lab portion of this course is designed to give the student the opportunity to apply the knowledge gained in the lecture setting by working on related components in the laboratory atmosphere.

The second semester is designed to be a continuation of the first semester. Areas of study include basics of electrical systems, vehicle maintenance procedures. Shop safety practices in each area of study will be emphasized. The lab portion of this course is designed to give the student the opportunity to apply the knowledge gained in the lecture setting by working on related components in the laboratory atmosphere. The basics of electrical systems will include starting systems. Basic engine designs and principles will include disassembly and reassembly. A study of fuel systems, gasoline and diesel, carburetors and fuel injection systems, and basic trouble shooting procedures.

\*College Credits earned apply to taking the full year of classes.



\*\* See WITCC College Catalog for Course Descriptions, Program Overview, Career Outlook, and Program Outcomes.

COURSE NUMBER: HS1700

COURSE TITLE:

**Auto Body (WITCC Program: Auto Collision Repair Technology)**

COURSE LENGTH: Year - 90 Minutes Daily High School - 4 Credits WITCC - 10 Credits if both semesters are taken.

PREREQUISITE: None

GRADE LEVEL: 11, 12

LOCATION: Auto Tech Center

CREDITS EARNED: CRR 102 Sheet Metal Welding and Cutting (3 Sem Crs) CRR 811 Surface Preparation (4 Sem Crs) CRR 323 Sheet Metal Fundamentals (3 Sem Crs)\*

COURSE DESCRIPTION:

**This is a Dual Credit course taught by WITCC.** The first semester of this course will provide the student with a basic knowledge of how sheet metal is affected in collisions, repair procedures, and welding. The student will be instructed in auto body safety, tools, and their usage, fasteners, auto body terms and nomenclature. The student will be provided instruction for skill development in the areas of mig welding, plasma cutting, oxy-acetylene torch usage (welding, cutting, brazing, and heating), metal straightening and finishing, metal shrinking, sheet metal grinding, and sheet metal fabrication.

The second semester will be completed using body fillers and shaping them to the correct contour. Proper procedures to refinish automotive sheet metal panels will be discussed. This will include painting safety precautions, refinishing tools and equipment, abrasives, sanding techniques, automotive washing and cleaning, paint surface preparation, feather edging of paint edges, thinning and mixing of paints and primers, and the proper techniques used in the spraying of lacquer primers and paints.

College Credits earned apply to taking the full year of classes

\*\* See WITCC College Catalog for Course Descriptions, Program Overview, Career Outlook, and Program Outcomes.

COURSE NUMBER: HS1702

COURSE TITLE:

## Advanced Auto Body (WITCC Program: Auto Collision Repair Technology)

COURSE LENGTH: Year-90 minute block every day High School - 4 credits  
Western Iowa Technical Community College - 9 credits if both semesters are taken.

PREREQUISITE: Auto Body

GRADE LEVEL: 12

LOCATION: Auto Tech Center

CREDITS EARNED: CRR 411 Interior Body Construction (3 SEM CRS)  
CRR 403 Exterior Body Construction (3 SEM CRS)  
CRR 202 Auto Fiberglass and Plastic Repair (3 SEM CRS)\*

COURSE DESCRIPTION:

**This is a dual credit course taught by WITCC.** A combined lecture and lab course. The first semester students will study the servicing of steering columns, dash assemblies, headlines, seats and seat belts, interior trim, and door hardware. The removal and installation of automotive glass and trim will be practical.

During the second semester students will study methods of adjusting and aligning bumpers, lamps, and exterior body panels. Emphasis will be placed on the fit of fenders, doors, hoods, deck lids, grills, and the servicing of hinges and latches. The removal and installation of radiators, AC condensers, strut type suspension, and gas tanks will be practiced.

College Credits earned apply to taking the full year of classes\*\* See WITCC College Catalog for Course Descriptions, Program Overview, Career Outlook and Program Outcomes

## COMPUTER SCIENCE

COURSE NUMBER: HS1900

COURSE TITLE:

## Visual Basic.Net I

COURSE LENGTH: Semester

CREDITS: One High School and 3 College Credits (CIS 606)

PREREQUISITE: None

GRADE LEVEL: 11, 12

COURSE DESCRIPTION:

A combined lecture and lab course, Visual Basic.Net I introduces Windows programming using Microsoft's .NET framework. Students will write introductory level programs involving variables, assignment, input and output using graphical user interface (GUI), calculations, repetition and selection between alternatives using the .NET environment.

COURSE: HS1902

COURSE TITLE:

Computer Systems A+ (WITCC Program: Computer Science)

COURSE LENGTH: Fall Semester 90 minutes daily

CREDITS: 2 High School and 4 College Credits

PREREQUISITES: None

GRADE LEVEL: 11, 12

LOCATION OF COURSE: Denison Campus of WITCC

COLLEGE COURSE TITLE: Computer Systems A+ NET 123

COURSE DESCRIPTION:

This is a dual credit course taught through WITCC and using the college curriculum. This course is designed to familiarize the student with the components and operating system of the basic PC and to help them understand how each component functions. Students that are successful with this course will be able to identify all of the components of a PC, build a fully functioning system, and troubleshoot many problems associated with P.C.'s. This course provides a good foundation for taking the A+ Certification class.

This course will prepare a student to take the A+ Certification exam and is a general education requirement towards a two year Associate of Applied Science Degree in Computer Science. This course is transferable to a four year college towards a Baccalaureate Degree in Computer Science.

# FIRE SCIENCE

COURSE NUMBER: HS3101A  
HS3101B

COURSE TITLE:

Fire Fighter I  
Fire Fighter II

COURSE LENGTH: Semester

CREDITS: High School - 1 Credit, WITCC - 2 Credits

PREREQUISITE: None

GRADE LEVEL: 11 or 12

COURSE DESCRIPTION:

This program is for 17-18 year old students desiring to pursue a career as a professional firefighter or public safety officer upon graduation. The completion of this class will provide the foundation necessary to have a successful career as a paid firefighter or a volunteer firefighter in their own community. This class will provide the student with the basic fire training outlined in the National Fire Protection Association 1001, Standard for Firefighter Professional Qualifications. The class will consist of classroom and practical skills evolutions in areas such as understanding fire behavior, search and rescue, forced entry, firefighting tools and equipment, vehicle extrication featuring the "jaws of life", and fire control/ extinguishment. An emphasis on safety, ethics, accountability, communication, and teamwork will be the hallmark of this class. Each student who is 18 and who has completed all training requirements will have an opportunity to test for certification as a nationally certified Firefighter through the international Fire Service Accreditation Congress, the Iowa Fire Service Training Bureau and the Denison Volunteer Fire Department.

# LAW ENFORCEMENT/POLICE SCIENCES

COURSE NUMBER: HS3200

COURSE TITLE:

Intro to Criminal Justice

COURSE LENGTH: Semester

CREDITS: High School - 1 Credit, WITCC - 3 Credits

PREREQUISITE: None  
GRADE LEVEL: 11 or 12  
COURSE DESCRIPTION:

This course studies the history of law enforcement and respective agencies and the basic theories of the criminal behavior as well as law enforcement terminology and technology. It emphasizes the duties and responsibilities of the law enforcement officer to the individual and society as a whole and explores and defines techniques, technical terms, and basic procedures. this introductory course is a great starting point for students that are considering careers in law enforcement or security.

COURSE NUMBER: HS3201  
COURSE TITLE:

### Ethics in Criminal Justice

COURSE LENGTH: Semester  
CREDITS: High School - 1 Credit, WITCC - 3 Credits  
PREREQUISITE: None  
GRADE LEVEL: 11 or 12  
COURSE DESCRIPTION:

This course covers the ethical standards and codes of professional behavior for police officers and others placed in positions of public trust. The course includes use of force, gratuities, intra- and inter-agency conduct, integrity, ethical necessity of due process and on-duty and off-duty conduct.

## ELL CLASSES

COURSE NUMBER HS2000  
COURSE TITLE:

### Language Development I (ELL Program)

COURSE LENGTH: Year, Four Credits - Meets Daily for Two Blocks  
PREREQUISITE: Beginning English Language Learners (Little or no English)  
GRADE LEVEL: 9, 10, 11, or 12  
COURSE DESCRIPTION:

Language Development I is designed for English Language Learners to introduce the basics of the English language, both written and spoken, including vocabulary, pronunciation, spelling and grammar. Since a language is a reflection of the culture or cultures that speak it, elements of

culture of the United States will also be integrated into the teaching of the language. The ability to speak English is a necessity for successful participation in the academic high school world, as well real life outside of the school environment.

COURSE NUMBER: HS2001

COURSE TITLE:

Language Development II (ELL Program)

COURSE LENGTH: Year, Four Credits - Meets Daily for One Block

PREREQUISITE: Completion of English Language Development I or Placement level indicated by English Language Proficiency Test

GRADE LEVEL: 9, 10, 11, or 12

COURSE DESCRIPTION:

Language Development II is designed for English Language Learners. It continues with a review of English Language Development I material and progresses to more complex expressions of the student's thoughts in both written and spoken English. Speaking, listening, reading, and writing skills are expanded as the students become more able to express themselves in English. Cultural values of the United States are explored in more detail through a variety of activities. Completion of Language Development II enhances the students' ability to use English as an academic tool and in the community at large.

COURSE NUMBER: HS2005

COURSE TITLE:

Tutoring - English 9 (ELL Program)

COURSE LENGTH: Year, Two Credits

PREREQUISITE: Enrolled in English 9

GRADE LEVEL: 9

COURSE DESCRIPTION:

This course is designed to give the English Language Learner the needed assistance to be able to participate and succeed in English 9.

COURSE NUMBER: HS2006

COURSE TITLE:

Tutoring - American Heritage (ELL Program)

COURSE LENGTH: Year, Two Credits

PREREQUISITE: Enrolled in American Heritage

GRADE LEVEL: 11

COURSE DESCRIPTION:

This course is designed to give the English Language Learner the needed assistance to be able to participate and succeed in American Heritage.

COURSE NUMBER: HS2007

COURSE TITLE:

**Tutoring - Government (ELL Program)**

COURSE LENGTH: Semester, One Credit

PREREQUISITE: Enrolled in Government

GRADE LEVEL: 12

COURSE DESCRIPTION:

This course is designed to give the English Language Learner the needed assistance to be able to participate and succeed in Government.

COURSE NUMBER: HS2008

COURSE TITLE:

**Tutoring - English 10 (ELL Program)**

COURSE LENGTH: Year, Two Credits

PREREQUISITE: Enrolled in English 10

GRADE LEVEL: 10

COURSE DESCRIPTION:

This course is designed to give the English Language Learner the needed assistance to be able to participate and succeed in English 10.

COURSE NUMBER: HS2009

COURSE TITLE:

**Tutoring - Biology (ELL Program)**

COURSE LENGTH: Year, Two Credits

PREREQUISITE: Enrolled in Biology

GRADE LEVEL: 10, 11, 12

COURSE DESCRIPTION:

This course is designed to give the English Language Learner the needed assistance to be able to participate and succeed in Biology.

COURSE NUMBER: HS2012

COURSE TITLE:

**Tutoring - Comp./Comm. (ELL Program)**

COURSE LENGTH: Semester, One Credit

PREREQUISITE: Enrolled in Comp./Comm.

GRADE LEVEL: 12

COURSE DESCRIPTION:

This course is designed to give the English Language Learner the needed assistance to be able to participate and succeed in Comp./Comm..

COURSE NUMBER: HS2020

COURSE TITLE:

**Language Development III (ELL Program)**

COURSE LENGTH: Year, Four Credits - meets daily for one block

PREREQUISITE: Completion of English Language Development II or Placement level indicated by English Language Proficiency Test

GRADE LEVEL: 9, 10, 11, 12

COURSE DESCRIPTION:

Language Development III is designed for English Language Learners to further their understanding and use of English grammar and content area vocabulary. Students will have the opportunity to use English in a variety of academic activities in both oral and written forms. They will use English to express their thoughts about academics, daily life, and culture in the past, present and future. Completion of Language Development III enhances the students' ability to use English as an academic tool especially in higher level academic courses.

COURSE NUMBER: HS2004

**COURSE TITLE:**

**Writing Improvement**

COURSE LENGTH: Year, Two Credits

PREREQUISITE: Completion of English Language Development 3 or English Language Skills at this level based on English Language Development tests

GRADE LEVEL: 9, 10, 11 or 12

COURSE DESCRIPTION:

Writing Improvement is designed for English Language Learners, to further their study of more advanced English



grammar and vocabulary. Students will have the opportunity to use English in more complex tenses and thus discuss many facets of daily life past and present, both orally and in writing. Students will have numerous opportunities to write English in the academic setting, short answer essays, paragraphs, and longer essays, utilizing all the skills involved in producing such written works, including choosing a topic, note-taking, organizing notes, prewriting, proofreading and editing of written works.

## SPECIAL EDUCATION CLASSES

COURSE NUMBER: HS1018A

COURSE TITLE:

*Fundamentals of United States History*

COURSE LENGTH: Semester, One Credit

PREREQUISITE: By Recommendation Only

GRADE LEVEL: 9, 10, 11, 12

COURSE DESCRIPTION:

Comprehensive program that teaches using real-world examples to show students the relevance of social studies in their daily lives. When we study the past, we can have a better understanding of why some things happened the way they did. This course teaches about important people and events that shaped United States History.

SS.9-12.H.1 Essential concept and/or Skill: Understand historical patterns, periods of time, and the relationships among these elements.

SS.9-12.H.2 Essential Concept and/or Skill: Understand how and why people create, maintain, or change systems of power, authority, and governance.

SS.9-12.H.3 Essential Concept and/or Skill: Understand the role of culture and cultural diffusion on the development and maintenance of societies.

SS.9-12.H.4 Essential Concept and/or Skill: Understand the role of individuals and groups within a society as promoters of change or the status quo.

SS.9-12.H.5 Essential Concept and/or Skill: Understand the effect of economic needs and wants on individual and group decisions.

COURSE NUMBER: HS

COURSE TITLE:

### Basic Math Skills

COURSE LENGTH: Semester, One Credit

PREREQUISITE: By Recommendation Only

GRADE LEVEL: 9, 10, 11, 12

COURSE DESCRIPTION:

This course is designed for students who have not fully mastered the basic mathematic concepts. Students will be scheduled into this course based on their performance level indicated by diagnostic and standardized tests. Successful completion of this course will have a student ready for business math or pre-algebra. This course focuses on Iowa Core Essential Elements.

EE.N-Q. 1-3. Express quantities to the appropriate precision of measurement.

EE.N-CN.2a. Use the commutative, associative, and distributive properties to add, subtract, and multiply whole numbers.

EE.N-CN.2.b. Solve real-world problems involving addition and subtraction of decimals, using models when needed.

EE.N-CN.2.c. Solve real-world problems involving multiplication of decimals and whole numbers, using models when needed.

COURSE NUMBER: HS2100B

COURSE TITLE:

### Fundamentals of General Science

COURSE LENGTH: Semester, One Credit

PREREQUISITE: By Recommendation Only

GRADE LEVEL: 9, 10, 11, 12

COURSE DESCRIPTION:

A comprehensive, systematic overview of key scientific concepts. This class teaches students about chemical reactions, energy and motion, sound and light, atmospheric and geological forces, the solar system, the body, plants, and animals, and the other building blocks of physical science, earth science, and life science.

COURSE NUMBER: HS2113B

COURSE TITLE:

### Fundamentals of World Geography

COURSE LENGTH: Semester, One Credit

PREREQUISITE: By Recommendation Only

GRADE LEVEL: 9, 10, 11, 12

COURSE DESCRIPTION:

World Geography focuses on the five themes of geography: place, region, location, interaction, and movement. It covers the people, cultures, economies, political issues, and geography in our world. This class strengthens learning skills by using maps, graphs, charts, and photos providing a visual representation of the content.

COURSE NUMBER: HS2128

COURSE TITLE:

### Math for the World of Work

COURSE LENGTH: Semester, One Credit

PREREQUISITE: By Recommendation Only

GRADE LEVEL: 9, 10, 11, 12

COURSE DESCRIPTION:

This course is designed for students who have not fully mastered the basic mathematics concepts. Math for the World of Work covers critical skills such as whole numbers, fractions, decimals, averages, estimating, measurements, ratios, and teaches students how they relate to jobs. Each new skill is introduced in a cross-curricular context that helps students learn about the business world, from wages and banking, to insurance and risk, to management issues.

HSN.Q.A.1 Use units as a way to understand problems and to guide the solution of multi-step problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays.

HSN.Q.A.2 Define appropriate quantities for the purpose of descriptive modeling.

HSN.Q.A.3 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.

COURSE NUMBER: HS2129

COURSE TITLE:

## Basic English Composition

COURSE LENGTH: Semester, One Credit

PREREQUISITE: By Recommendation Only

GRADE LEVEL: 9, 10, 11, 12

COURSE DESCRIPTION:

This course focuses on practical writing skills that students can use now and as they transition from high school. Students will learn how to write a paragraph, a phone message, a letter and a report. We write to express our thoughts and ideas, and to share information with other people. Students will learn how to prepare for written tests and how to write essay answers. In addition, students will practice their grammar and vocabulary skills, and spend some time using references and resources.

W.9-10.4 Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.

W.9-10.5 Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience.

W.9-10.6 Use technology, including the Internet, to produce, publish, and update individual or shared writing products, taking advantage of technology's capacity to link to other information and to display information flexibly and dynamically.

COURSE NUMBER: HS2162

COURSE TITLE:

## Fundamentals of Biology

COURSE LENGTH: Semester, One Credit

PREREQUISITE: By Recommendation Only

GRADE LEVEL: 9, 10, 11, 12

COURSE DESCRIPTION:

Biology is designed to help students learn about classification and organization; patterns of growth, development, and reproduction; the systems of the human body; ecological cycles, and other basic biological building blocks. Students work on

interpreting data, practice formulating hypotheses, and observe and record information.

HS-LS2-1 Use mathematical and/or computational representations to support explanations of factors that affect carrying capacity of ecosystems at different scales.

S-LS2-2 Use mathematical representations to support and revise explanations based on evidence about factors affecting biodiversity and populations in ecosystems of different scales.

HS-LS2-3 Construct and revise an explanation based on evidence for the cycling of matter and flow of energy in aerobic and anaerobic conditions.

HS-LS2-4 Use mathematical representations to support claims for the cycling of matter and flow of energy among organisms in an ecosystem.

HS-LS2-5 Develop a model to illustrate the role of photosynthesis and cellular respiration in the cycling of carbon among the biosphere, atmosphere, hydrosphere, and geosphere.

HS-LS2-8 Evaluate the evidence for the role of group behavior on individual and species' chances to survive and reproduce.

COURSE NUMBER: HS2173

COURSE TITLE:

### Everyday Reading

COURSE LENGTH: Semester, One Credit

PREREQUISITE: By Recommendation Only

GRADE LEVEL: 9, 10, 11, 12

COURSE DESCRIPTION:

This course is designed to improve reading skills. The goal is to rapidly accelerate the rate which students read and comprehend both fiction and non-fiction text. It focuses on Iowa Core Essential Elements.

EE.RL. 9-12.1 Analyze a text to determine its meaning and cite textual evidence to support explicit and implicit understanding. EE.RL. 9-12.2 Recount the main events of the text which are related to the theme or central idea.

EE.RL. 9-12.3 Determine how characters, the setting or events change over the course of the story or drama.

EE.RL. 9-12.4 Determine how words or phrases in a text, including words with multiple meanings and figurative language, impact the meaning