

**2016-2017**  
**course catalog**



**Earlham High School**

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## **INTRODUCTION**

The purpose of this course catalog is to acquaint students and parents with the course offerings of Earlham High School, and to provide information which will assist in the selection of courses by students at the time of pre-registration. Included are the requirements for graduation as well as the courses that will be offered for next year. Before making your final selections, talk with your parents and the counselor. Make sure you take courses for the right reasons. Courses should be selected based on your individual goals and preferences. Classes should not be selected based on the course's reputation for being easy or because your friends are planning to take the course.

Select your courses wisely. It will certainly pay off!

## **GENERAL INFORMATION**

Students in grades 9, 10, and 11 take a minimum of seven classes per semester, and may have one study hall. Seniors must take at least six classes per semester, and may qualify for senior release a maximum of one out of eight periods. Exceptions are made with administrative approval.

The counselor and administration reserve the right to approve each student's schedule. No courses can be taken for credit twice unless it is so stated in the course description. Students may repeat a course with administrative approval if they received lower than a C- the first time, and they wish to raise their grade or relearn the material. However, additional credit will not be given. If a course is repeated, the grade earned the second time through is what will appear in the student transcript.

Once a student has been assigned a particular schedule, he/she will be discouraged from changing that schedule. Any student enrolling in a year course should plan to complete the course. Any exception to this rule will be considered on an individual basis.

Some courses may require a minimum number of students enrolled in order to be offered.

## CHANGES FOR 2016-2017

- Marketing 1 is now known as Principles of Marketing
- Marketing 2 is now known as Entrepreneurship & Sales
- New class: Sports & Entertainment Marketing
- New class: Performance Philosophy
- Teacher assistants will only be allowed in the elementary school
- Any independent studies need to be approved by Mrs. Knight

## GRADUATION REQUIREMENTS

Progress in high school is measured in terms of credit. One credit is earned by earning a passing grade for a course which meets daily for one semester.

It is each student's responsibility to make sure they take the necessary courses to meet graduation requirements. In all instances, all academic, financial, disciplinary, and other obligations to the district must be fulfilled in order to graduate.

*\*Courses that are marked with an asterisk are required for graduation.*

| Course or Department   | Number of Required Credits |
|--|----------------------------|
| <p style="text-align: center;"><b>English</b></p> <ul style="list-style-type: none"><li>● *English 1 (2 credits)</li><li>● *English 2 (2 credits)</li><li>● *English 3 (2 credits)</li><li>● *Speech (1 credit)</li><li>● Creative Writing (1 credit)</li><li>● Theatre Arts (1 credit)</li><li>● Media &amp; Broadcasting (1 credit)</li><li>● Real World Writing (1 credit)</li><li>● Public Speaking (1 credit)</li></ul> | <b>8</b>                   |
| <p style="text-align: center;"><b>Mathematics</b></p> <ul style="list-style-type: none"><li>● Pre-Algebra (2 credits)</li><li>● *Algebra I (2 credits)</li></ul>   | <b>6</b>                   |

|   |           |
|---|-----------|
| <ul style="list-style-type: none"> <li>● Geometry (2 credits)</li> <li>● Intermediate Algebra (2 credits)</li> <li>● Informal Geometry (2 credits)</li> <li>● Algebra II (2 credits)</li> <li>● Precalculus (2 credits)</li> <li>● Statistics (1 credit/4 DMACC credits)</li> <li>● Calculus I (1 credit/5 DMACC credits)</li> <li>● Calculus II (1 credit)</li> </ul>  |           |
| <p style="text-align: center;"><b>Science</b></p> <ul style="list-style-type: none"> <li>● *Physical Science (2 credits)</li> <li>● *Biology (2 credits)</li> <li>● Chemistry (2 credits)</li> <li>● Ecology (2 credits)</li> <li>● Physiology &amp; Anatomy (2 credits)</li> <li>● Physics (2 credits)</li> <li>● Advanced Biology (2 credits)</li> <li>● Intro to Animal Science (2 credits)</li> <li>● Plant Science (2 credits)</li> </ul>  | <b>6</b>  |
| <p style="text-align: center;"><b>Social Studies</b></p> <ul style="list-style-type: none"> <li>● *US History (2 credits)</li> <li>● *Government 1 (1 credit)</li> <li>● *Western Civilization (2 credits)</li> <li>● *World Geography (1 credit)</li> <li>● Government 2 (1 credit)</li> <li>● Psychology (1 credit)</li> <li>● Sociology (1 credit)</li> <li>● Economics (1 credit)</li> <li>● Contemporary Problems (1 credit)</li> <li>● Contemporary History (1 credit)</li> </ul> | <b>7</b>  |
| <p style="text-align: center;"><b>*Physical Education</b></p> <ul style="list-style-type: none"> <li>● PE</li> <li>● Strength &amp; Conditioning</li> <li>● Personal Fitness</li> </ul>   | <b>4</b>  |
| <b>*Personal Finance</b>  | <b>1</b>  |
| <b>Electives</b>  | <b>19</b> |

|              |           |
|--------------|-----------|
| <b>Total</b> | <b>51</b> |
|--------------|-----------|

## **Additional Education Opportunities**

### **Edgenuity**

The objective in the Edgenuity classroom is to provide students the opportunity to make up credits, retake courses, or take elective courses for the purpose of meeting the credit requirements for graduation. The courses are online and are self-paced. Courses are available in English/Language Arts, Math, Science, Social Studies, and several elective areas. Please consult with the school counselor if interested in taking any of these courses. Students wishing to enroll in an Edgenuity course need to pick up an Edgenuity Course Handbook and Application from the school counselor at least two weeks prior to the desired start date.

Students in grades 9-12 are eligible to take one Edgenuity course per semester. Courses that are offered in the classroom will only be available to students for credit recovery or in the case of a scheduling conflict.

If you would like more information about any of these courses, please visit the program website:

<http://www.edgenuity.com/products/courses-and-curriculum/>

An E2020 Course Catalog with descriptions of each course will also be available in the School Counseling office.

Intro to Comm. & Speech (Speech)  
English 1, 2, 3, & 4  
Literacy & Comprehension 1  
IDEA Writing  
Classic Novel Studies  
Pre-Algebra  
Algebra 1 & 2  
Geometry  
Pre-Calculus  
Math Models & Application (Int. Algebra)  
Financial Math  
Physical Science

Biology  
Ecology  
Chemistry  
Physics  
World History  
U.S. History  
Government  
Economics  
Human Geography  
World Geography  
Psychology  
Sociology  
Career Planning & Development  
Spanish 1 & 2  
Art History 1  
Introduction to Health Science  
Strategies for Academic Success  
Healthy Living (Health)  
Foundations of Personal Wellness (P.E.)  
Computer Literacy  
Computer Science 1 & 2  
Introduction to IT  
Audio Engineering  
Engineering Design 1 & 2  
Introduction to Entrepreneurship 1 & 2  
Personal Finance  
Green Design & Technology  
ACT Test Prep

## **PSEO/DMACC/CAREER ADVANTAGE PROGRAM/MCCA**

There are educational opportunities available for students outside of the regular campus schedule. **College credit (PSEO or Concurrent Enrollment) is available through the following avenues:**

DMACC, through their "Career Advantage" program, offers college credit to students while still in high school. This is available for Juniors, Seniors, and TAG students. The web site for this opportunity is:

[www.dmacc.edu/careeradvantage/aboutcareeradvantage.asp](http://www.dmacc.edu/careeradvantage/aboutcareeradvantage.asp). Online Career Advantage courses will be offered through DMACC on site at Earlham High School. Students who wish to take these courses or other online courses will need to meet the following requirements:

- The courses are instructed through an online learning system via a DMACC professor. Students will receive an online study hall period every day for each DMACC class that they are taking. They are also expected to work outside of class time as these are college level classes. Professors teach these classes as they would to students on campus. They typically do not accept any excuses for late or missing work.
- As a junior, a student can take **one** DMACC class per semester, not including Calculus or Statistics, which are DMACC classes taught at Earlham by Mrs. Connon. A senior can take **two** DMACC classes per semester, also not including Calculus or Statistics. These are also available to TAG students with the TAG instructor's approval. In order to take DMACC classes, a student must have a 3.5 cumulative GPA or higher. As a senior, students need to score at least a 21 on their ACT.
- Since these classes are being taught concurrently, your child is also receiving high school credit for the courses they are taking. GPA and eligibility are affected by the outcome of DMACC classes, just as they would for any class being taught in the high school. Grades will appear on both our Earlham HS transcript and a DMACC transcript. If a student receives an "F" in a DMACC class, they will no longer be able to take DMACC classes while at Earlham.
- These classes are paid for by the school, and textbooks are provided (but need to be returned at the end of the semester). Any other miscellaneous fees will be the responsibility of the student.

**DMACC has its own registration forms and agreements. Students need to complete the proper registration forms provided by the school counselor and adhere to all guidelines of that institution. Earlham High School will provide a workstation within a classroom for each student taking an online course.**

**Students taking online courses in the building will adhere to the regular attendance policy.**

POST-SECONDARY ENROLLMENT OPTIONS (PSEO) ACT provides an avenue for students to earn college credit while attending high school. High school students in 11<sup>th</sup> and 12<sup>th</sup> grades (and 9<sup>th</sup> and 10<sup>th</sup> grade students in TAG) may enroll in post-secondary schools (colleges) tuition free in certain courses during the regular school year. This does not include courses offered during the summer term. THIS MUST BE PRE-APPROVED BY THE SCHOOL COUNSELOR AND ADMINISTRATION.

The Madison County Career Academy (MCCA) has several programs which allow students to earn high school and college (DMACC) credit at the same time. These classes are taught on site at the Winterset Community School District. Students who are in grades 11 or 12 are eligible to participate in these programs. Younger students who are in the TAG program may also enroll with TAG instructor and counselor approval. The MCCA programs focus on a specific skill or trade which will jump-start the students' career in the following areas:

- CNA Basic- *Physical & Immunization records on file and submit to drug testing.*
- Medical Terminology (taken along with CNA Basic)
- CNA Advanced-*Criminal/Abuse background check; CPR certification.*
- Construction Trades
- Culinary Arts
- PLTW Engineering-*2.5 GPA requirement*
- PLTW Principles of Engineering- *2.5 GPA requirement*

The following courses are offered at Earlham High School, and taught by EHS teachers for both college and high school credit:

- DMACC MAT 157 (Elementary Statistics) - Mrs. Connon
- DMACC MAT 211 (Calculus) - Mrs. Connon

DMACC requires that all students who enroll in a math course take the ALEKS placement exam. This exam has been put in place to ensure that students taking upper-level math courses have the background knowledge in mathematics to be successful in these courses.

## **ARTICULATION AGREEMENTS**

In the district's vocational programs, students have the opportunity to earn credits with DMACC through articulation agreements. Articulation is defined as a process for coordinating the linking of Secondary Schools and Post Secondary Institutions within a community to help students make a smooth transition from one level to another without experiencing delays, duplication of courses or loss of credit. Students can eventually earn college credit for taking vocational courses for which the district has an articulation agreement with DMACC. This credit will be earned if the student enrolls at DMACC after graduating from Earlham.

## **OFF-CAMPUS WORK-STUDY EDUCATIONAL PROGRAM**

Juniors and Seniors have an opportunity to arrange an unpaid off-campus study experience. It is possible for a student to earn a maximum of 6 elective credits through an educational experience. A maximum of 3 credits can be earned in a single semester. Approximately 100 hours of student involvement per credit earned will be required. In advance, students must complete a Work-Study registration form and a detailed plan with the cooperation of a resident teacher for the purpose of evaluation and site visits. This plan must be approved by the end of May for the fall semester and by the end of November for the spring semester. Assignments for off-campus study programs may include, but are not limited to: projects, written assignments, journals, presentations, and/or a term paper. *All credits earned through this program will be pass/fail.*

## **COURSE DESCRIPTIONS**

**\*Required Courses are Marked with an Asterisk\***

## ART

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### **2-D Art Design** (semester)

Grade Levels: 9-12

Prerequisite: None, Class fees

2-D art is a basic art-studio exploratory course. Each student is exposed to various art media in the areas of drawing, painting, composition, color study, art vocabulary, pre-20<sup>th</sup> Century art history, aesthetics, critique, and design. 2-D art and 3-D art can be taken in non-consecutive semesters.

Limit 17

### **3-D Art Design** (semester)

Grade Levels: 9-12

Prerequisite: None, Class fees

3-D art is the second part to the basic art experience. This course will expose all students to various three-dimensional work in a wide variety of mediums. 2-D art and 3-D art can be taken in non-consecutive semesters.

Limit 17

### **Senior Independent Art Studio** (semester)

Grade Level: 12, with teacher approval

Prerequisite: Painting 2 or Drawing 2, plus any studio class in concentration area. Must have own supplies.

This course explores advanced art problems in any medium. This course offers student directed assignments and is only open to senior advanced students who have completed the art curriculum.

## ART STUDIO CLASSES

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### **Drawing** (semester)

Grade Levels: 10-12

Prerequisite: 2-D Art, Class fees

Drawing 1 class covers various techniques, materials, and basics in drawing. In addition, students will be exposed to illustration, design, perspective, and the drawing of the human form.

Limit 15

**Advanced Drawing** (semester)

Grade Levels: 11-12

Prerequisite: Drawing 1

Drawing 2 expands on the basics of drawing. Students will be exposed to many areas of drawing with a focus on the communication of ideas through the various drawing media.

Limit 12

**Ceramics** (semester)

Grade Levels: 10-12

Prerequisite: 3-D Art, Class fees

Ceramics is the introductory level class to ceramics and wheel throwing pottery. Students will explore the pinch, coil, and slab hand building methods as well as basic pottery - wheel throwing techniques. Emphasis will be placed on the fundamentals of building and decorating the surface of a clay vessel using various mediums.

Limit 12

**Ceramics 2** (semester)

Grade Levels: 10-12

Prerequisite: 3-D Art and Ceramics 1, Class fees

Ceramics 2 expands on the basics of ceramics and pottery. Students further explore hand building and pottery methods to create more complex works of art. Emphasis will be placed on the fundamentals of building and decorating the surface of a clay vessel using various mediums.

Limit 12

**Crafts: Textiles , Jewelry & Glass** (semester)

Grade Levels: 11-12

Prerequisite: 3-D Art

Students will explore various techniques and materials used in the creation of projects with fabric and various natural materials. Students will explore various techniques in jewelry-making. Limit 12

**Crafts: II** (semester)

Grade Levels: 10-12

Prerequisite: 3-D Art

Students will explore various crafting techniques using a variety of materials for the creation of self - directed projects. Students will use digital media to explore and express ideas for their own creative projects. Limit 12

**Painting** (semester)

Grade Levels: 10-12

Prerequisite: 2-D Art & Drawing, Must have own supplies

Painting 1 covers various painting media and some historical information. The majority of the class time is spent in production. The students will explore water color, acrylics, and other two-dimensional mixed media.

Limit 15

**Advanced Painting** (semester)

Grade Levels: 11-12

Prerequisite: Painting, Must have own supplies

Painting 2 will expand on the basics of painting. Students will be exposed to many areas of painting with a focus on the communication of ideas through the various drawing media.

Limit 12

## COMPUTER ART CLASSES

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**Computer Graphics** (semester)

Grade Levels: 9-12

No prerequisite

This is the Art Class for the computer-minded. During this course, students will learn how to use the Adobe Illustrator, Photoshop, and Image Ready Programs. Students will start by learning the ins & outs of the program by creating mini assignments. Once the basic skills for each program have been mastered, a project will be completed by the Student to demonstrate their understanding of the skills learned. This is fun class to be in and a chance to put your creativity to use.

**Advanced Computer Graphics** (semester)

Grade Levels: 9-12

Prerequisite: Computer Graphics

Equipment needed Digital Camera for outside of school

This course is an advancement of Computer Graphics. Here you utilize Photoshop along with your Digital Camera to create an Electronic Portfolio. We will start off with

the Basics of Digital Photography and learn what it takes to create that “perfect” picture. We will then bring to our knowledge of Photoshop and add on to it. We will also discuss how to utilize Digital Media in the Business World (Advertisements mostly). For the last portion of the course, you will be given various tasks/projects that will be placed into your portfolio.

### **Architectural Drawing** (semester)

Grade Levels: 9-12

Prerequisite: 2-D Art

During the first half of the course, students will learn the basic drawing techniques common to all areas of drafting along with the study of perspective, isometric and orthographic drawings. The second half of the course will allow students to explore transferring architectural designs to the digital media format.

## **DRIVER EDUCATION**

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### **Driver Education** (no credit)

The driver education program is offered through an outside source, and is not connected to Earlham Community Schools. If interested in participating in this program, please visit [www.streetsmartsdriversed.com](http://www.streetsmartsdriversed.com) for more information.

## **FOREIGN LANGUAGE**

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### **Spanish 1** (year)

Grade Levels: 9-12

Prerequisite: None, A minimum “C” average in English is recommended

Students will learn how to communicate with basic language structures and vocabulary. As the year continues, students will use increasingly difficult structures to tell stories and describe characters, plots, and solutions. Students will learn verb conjugation in a less traditional but much more effective way through TPRS (Teaching Proficiency through Reading and Storytelling). They will be speaking within the first two weeks. Students are assessed on speaking, writing, listening, and reading comprehension. Students will read a chapter book designed especially for TPRS and write summaries for each chapter to check understanding.

\*This course is required by most of the Iowa Regents Universities.

**Spanish 2 (year)**

Grade Levels: 10-12

Prerequisite: Spanish 1, A minimum "C" or instructor approval is recommended

Spanish 2 uses Spanish 1 base knowledge and builds to increase the quantity and quality of their communication. Stories may be similar to Spanish 1 but with a focus on more vocabulary usage as well as more difficult language structures. Students will be assessed on speaking, writing, listening, and reading comprehension. Students will read a chapter book designed especially for TPRS and write summaries to check for understanding.

\*This course is required by most of the Iowa Regents Universities.

**Spanish 3:**

Grade Levels: 11-12

Prerequisite: Spanish 2, A minimum "C" or instructor approval is recommended

Spanish 3 learns through TPRS but at a much faster rate than the previous two years. Students will be expected to speak only Spanish and to improvise as we create stories as a class. Students will be assessed on speaking, writing, listening, and reading comprehension. Students will read a chapter book designed especially for TPRS and write summaries to check for understanding. They will also be looking at authentic materials such as news articles to form opinions and present information on today's Spanish speaking world.

**Spanish 4:**

Grade Level: 12

Prerequisite: Spanish 3, A minimum "C" or instructor approval is recommended

Spanish 4 is an application based course. Using all the previous knowledge of Spanish 1-3, students will be able to focus on areas of interest and share research with the class as well as personal stories. This class will review some basics of grammar throughout the course but will focus on communication of the message to the listener/reader. They will also be looking at authentic materials such as news articles to form opinions and present information on today's Spanish speaking world.

## HEALTH

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**Health**

Grade Levels: 9-10 Preferred

Prerequisite: None

Health is a one semester class designed to provide students with the information needed to make good health decisions. The units covered in this course will focus on motivating students to take ownership of protecting, maintaining, and enhancing their health through responsible actions and decisions. Students will learn that decision-making is the single most important factor when it comes to their overall health as an individual.

**Personal Health and Wellness** (*previously known as Health 2*)

Grade Level: 10-12 Preferred

Requirements: Health

Personal Health and Wellness is a semester class designed to provide students with information and strategies to improve and maintain their health and wellness and their performance in physical activities. The course will build off concepts from Health and provide a more in-depth education of the physical, social and emotional areas of health and wellness. The course will encourage students to apply their learning to their everyday lives.

## LANGUAGE ARTS

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**\*English 1** (year)

Grade Levels: 9-10

Prerequisite: None

The 9th grade English program addresses the guiding question: What are the forces that shape identity? Literature includes poetry, plays, novels, novellas, and short stories. Use of film assists learners in a study of how the visual form reinterprets the written form. The study of literary and visual forms is done at a high school level, as the learner is taught to appreciate the author's writing style, technique, and development of plot. Focus on literature also includes study of the literary elements of setting, characterization, conflict, point of view, and theme. Development of vocabulary is stressed through the year-long study of 200 word stems, while competency of written communication is furthered as we reinforce earlier learning with online grammar modules that include lessons, notes, and cumulative reviews. Written communication explores process work, sentence and paragraph development, theme skills, and creative writing. The importance of coming to conclusions in oral and written discussions is a focus, as well as the use of technology for projects, presentations, reinforcement, research, and composition. This course is beneficial for any entry-level employment position. Literature and film includes, but is not limited to: *The Magic of Belle Isle, Of*

*Mice and Men, Romeo and Juliet, "The Most Dangerous Game", "Scarlet Ibis", "Marigolds", "The Bass, the River, and Sheila Mant", Beanball, and House on Mango Street.*

**\*English 2 (year)**

Grade Levels: 10-11

Prerequisite: English 1

The 10th grade English program addresses the guiding question: How does our journey continue to shape us? Literature includes short stories, classic novels, American novels, world literature, poetry, nonfiction, film, and plays. Learners continue to study author's style and literary elements, but work to gain perspective of the world around them and their places in that same world. Learners work to identify examples and non-examples of tolerance, empathy, integrity, and identity through the text, with journaling, and in subsequent small and large group discussions. Learners will also be exposed to a survey of American literature (Puritanism, Rationalism, Romanticism), and they will continue to build vocabulary awareness as they expand from 200 (English I) to 400 word stems. This course covers grammar and mechanics as it is related to effectively composing paragraphs and essays. Each student will complete essays that synthesize information from several sources, and require proper MLA formatting. This course is beneficial for college or any career requiring good communication skills. Literature and film includes, but is not limited to: *The Alchemist* by Paulo Coelho, "Superman and Me", "The Bet", "Say Yes" (and other Tobias Wolff short stories), *Julius Caesar*, *To Kill a Mockingbird* or *The Bean Trees*, Anne Bradstreet poetry, Margaret Atwood poetry, *The Crucible*, and various works of nonfiction from the Rationalist and Romantic time periods in American literature.

**\*English 3 (year)**

Grade Levels: 11-12

Prerequisite: English 2

This course of study focuses on a survey of American literature and developing good writing skills. Composition, focusing on sentence and essay structure as well as integrating text evidence using MLA format will be studied throughout the year. Students will compose narratives, research, compare/contrast, and creative writing pieces. Building vocabulary to prepare for standardized tests (SAT and ACT) will also be stressed. This course is beneficial for college or any career requiring good communication skills.

**\*Speech (semester)**

Grade Levels: 9-12

Prerequisite: None

This is a public speaking course whereby students will enhance their oral interpretation skills while delivering a wide variety of speeches. While this is a performance based course, students will also work on outline writing and research skills. The fundamentals developed and improved upon during this course are essential for college and many careers.

### **Reading (year)**

Grade Level: 9

Prerequisite: Teacher recommendation

Enrollment in this freshman-level course is determined by Iowa Assessment and MAP scores, teacher observation and grades, and parent approval. Passport Reading Journeys incorporates high-interest reading material and technology with focused reading instruction in order to help students improve their comprehension and vocabulary skills. Students will also work on improving writing and research skills.

### **Public Speaking (semester)**

Grade Levels: 11-12, 10th graders with instructor approval

Prerequisite: Speech

The advanced public speaking class allows students with a basic understanding of public speaking to extend their abilities through theory and practice while focusing on civic presentation styles. The public speaking units consist of theory, lecture, examples, videos, followed by individual or group presentations. Students develop research and organizational skills necessary for clear, concise, and engaging presentations. Students will be encouraged to use video and audio technology to enhance their presentations. The final unit projects will often be delivered to an audience outside the classroom. Students will also improve their individual public speaking delivery style by studying public speaking skills as both a speaker and an observer.

### **Creative Writing (semester)**

Grade Levels: 11-12

Prerequisite: English 1 & 2

This is a highly individualized and student driven writing intensive course. The course will be taught in a workshop environment. Students will compose their own pieces of fiction, revise their manuscripts, and participate in peer workshops. Not only will students develop a sense of style and form, but they will also focus on voice, point of view, and theme. Genres include but are not limited to: short stories, poems, and drama.

### **Media & Broadcasting (semester)**

Grade Levels: 11-12

Prerequisite: English 2, Speech

Students taking this course will explore ways to use a variety of technologies to communicate in a variety of media formats including newspaper, television, radio and the Internet. A strong understanding of effective written and verbal communication skills is required. Students will be expected to create original products to share with a larger audience to demonstrate mastery.

### **Real World Writing** (semester)

Grade Levels: 11-12

Prerequisite: English 2

This elective will focus on the practical writing applications used commonly in the “real world.” Matching tone to purpose will be a focus as students write resumes, cover letters, business correspondence, emails, letters to the editor, and more.

### **Theatre Arts** (semester)

Grade Levels: 10-12

Prerequisite: Speech

This class is designed as an elective in the English department; it offers an overview of the theatrical experience. Students will explore, create, critique, and analyze different aspects of theatre and performance - from onstage to behind the scenes and as informed audience members. In this course, students will study the history of theatre, acting, improvisation, sound and lighting, and other media/art forms.

## **LEADERSHIP**

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### **Leadership** (semester)

Grade levels: 9-12

Prerequisites: None

Leadership is a class designed to discuss and improve on character and leadership skills. In this course, students will read chapters from the “Role Models” book, watch movie clips, and participate in class discussions. Each unit is based on a different word. These words include; attitude, preparation, perseverance, respect, honesty, integrity, courage, appreciation, composure, empathy, gratitude, tolerance, sacrifice, loyalty, responsibility, compassion, leadership, and character. The skills and traits discussed in this class will be important qualities for students to carry on with them for the rest of their lives.

## MATHEMATICS

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### **Pre-Algebra** (year)

Grade levels: 9-12

Prerequisite: None

Pre-algebra will enable students to more easily make the transition from mathematics to algebra. This course introduces students to the properties of operations and the uses of variable and equations. It also reinforces basic computational skills involving percent, proportion, decimals, rational expressions and properties of geometry. Introduction to polynomials, statistics, and probability will also be explored. This course is beneficial for entry-level employment positions.

### **\*Algebra 1** (year)

Grade levels: 8-12

Prerequisite: None, 8th and 9th grade students need a teacher recommendation

The emphasis will be on fundamental algebra skills, with some geometry, probability and statistics. This course is beneficial for any entry-level employment position.

### **Informal Geometry** (year)

Grade Levels: 10-12

Prerequisites: Algebra 1, Instructor approval

This course will cover typical topics covered in a Geometry class and as outlined according to the Iowa Core Curriculum, but there are more hands-on measurement activities and less formal reading and writing of proofs. Topics include: Volume, area, perimeters, triangles, quadrilaterals, polygons and their properties, transformations, points, lines, angles, basic trigonometry for triangles, and transformations. A student completing this course would move on to the Intermediate Algebra course. Students intending to pursue a 4-year college degree should take the regular geometry course.

### **Geometry** (year)

Grade levels: 9-12

Prerequisite: Algebra 1, "C" or higher in Algebra 1 recommended

Emphasis is on coordinate and transformational geometry, connecting this course with Algebra 1. real-world orientation problems and standard geometric problems will be covered. Specific topics covered include triangle congruency, volumes, area, perimeter, polygons, direct and indirect proofs, points, lines, angles, reflections, and an introduction to trigonometry.

\*This course is required by the Iowa Regents Universities.

**Intermediate Algebra** (year)

Grade Levels: 11-12, 9th or 10th with instructor approval

Prerequisite: Algebra 1 & Geometry

This course will cover properties of numbers, linear and quadratic equations, and an introduction to probability and statistics. This course is designed to bridge the gap between Geometry and the basic math courses required in college. Those hoping to pursue Business, Math, Science, Engineering, Nursing, etc., should take the regular Algebra 2 course.

\*This course is not accepted as a Math credit by the Iowa Regents Universities.

**Advanced Algebra** (year)

Grade Levels: 10-12

Prerequisite: Algebra 1 & Geometry, "C" or higher in these courses recommended

This is a prerequisite for students planning on taking Precalculus and Statistics in High School and in College. Topics include properties of numbers, graphs, expressions, linear, quadratic exponential. equations, inequalities, matrices, logarithms, and trigonometry and conic sections.

\*This course is required by the Iowa Regents Universities.

**Pre-Calculus** (year)

Grade Levels: 10-12

Prerequisite: Advanced Algebra, "C" or higher

First semester topics include extending knowledge of functions including exponentials, logarithms, rational, and introducing trigonometric functions. Probability will be introduced in first semester. Second semester will expand trigonometric topics, parametric equations, polar and complex numbers, and vectors. This course should be completed in high school for those considering math or science majors in college.

**Calculus** (fall semester) DMACC MAT211-Calculus, 5 Credits

Grade Level: 12

Prerequisite: Precalculus with overall 3.5 GPA, 21 on ACT, or instructor approval

Requirement: ALEKS test must be passed prior to beginning this course.

This course will cover absolute values, inequalities, functions, limits, continuity, differentiation, definite integration, exponential and logarithmic functions. This course is the foundation (required course) for the following majors: Mathematics, Actuarial Science, Statistics, Economics, Engineering, Physics and other Sciences. (Business, majors often are required to take business calculus specific applications for their major

– Math 211 is more rigorous.). It counts toward the mathematics component of most college general education requirements.

**Calculus II** (Spring semester independent study)

Grade level: 12

Prerequisites: Calculus I with a C- or better

Topics include applications of integration, integration techniques, L'Hopital's rule, improper integrals, infinite sequences, series, Taylor and Maclaurin series, the calculus of plane curves, parametric equations and polar equations. Because ISU doesn't accept dual credit Calculus II through DMACC, students may take the AP Exam the first week of May. If they have a high enough score, some colleges and universities will offer credit.

**Statistics** (spring semester) DMACC MAT157- Elementary Statistics, 4 credits

Grade Levels: 11-12

Prerequisite: Advanced Algebra with 3.5 GPA, 21 ACT, or instructor approval

Requirement: Must score a 30% or better on ALEKS test prior to beginning this course.

This course will cover tabular and graphical presentation, measures of central tendency and variability, standard elementary procedures involving binomial, normal student's  $t$ 's, chi-squares and  $f$  distributions, correlation, regression, analysis of variance and several nonparametric procedures. This course can count toward the mathematics component of most college general education requirements. Students planning to major in psychology, nursing, business, science, or most any field would benefit from this course.

## MUSIC

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**Instrumental Music: Band** (year)

Grade Levels: 9-12, May be repeated

Prerequisite: Previous enrollment in band or permission from instructor.

Lessons, added assignments, reports, and projects may be required. Required attendance for all performing groups, which include marching band, concert band, and pep band. Concerts include winter, pops, spring, state large group, and commencement. Solo work is encouraged. Honor bands, solo and small group contest, and jazz band are optional and extracurricular.

**Vocal Music: Chorus** (year)

Grade Levels: 9-12, May be repeated

Prerequisite: None

Lessons, added assignments, reports, and projects may be required. Sectionals and small group rehearsals may take place during one or more periods of the week. Each student will learn basic concepts in voice production while covering a variety of styles in choral literature, as well as options available in music careers. Attendance is required at all concerts, which include the conference vocal festival, winter, pops, spring concert, and commencement. Honor choirs, and solos and small group contests are optional and extracurricular.

## PHYSICAL EDUCATION

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### **\*Physical Education** (semester)

Grade levels: 9-12

Prerequisite: None

Physical Education is a one semester class that provides students provides each student with the base knowledge and abilities required for maintaining fitness throughout his/her lifetime. Students will have a breadth and depth of activities to enhance the fitness experience. Students will receive ample opportunities to improve their overall health and fitness levels while being given the opportunities to involve themselves in a variety of activities.

### **Strength & Conditioning** (semester)

Grade levels: 9-12

Prerequisites: none

Strength and Conditioning / Fitness is a one semester class that allows students to train in the Earlham Strength and Conditioning program during the school day. This class is for students who desire to improve their fitness levels and/or their athletic performance. Students will learn and participate in advanced fitness and weightlifting activities. Attendance in this class fulfills requirements for in-season and out of season workouts for school-sponsored athletic teams.

### **Personal Fitness** (semester)

Grade levels: 9-12

Prerequisites: none

Personal Fitness is a one semester class that allows students to create an individualized fitness program and track their progress as they use their program. Students will learn about different types of fitness programs and choose their program with guidance from the teacher. This class is for students who desire to improve their fitness levels while setting and reaching personal goals they have established.

Attendance in this class fulfills requirements for in-season and out of season workouts for school-sponsored athletic teams.

## SCIENCE

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### **\*Physical Science** (year)

Grade Level: 9

Prerequisite: None

In this course, we will study the basic concepts of physics and chemistry through hands-on application of basic scientific principles and laws. Lab report and graph writing as well as problem solving skills will be emphasized throughout. These skills and concepts will lay the foundation for all other science courses.

### **\*Biology** (year)

Grade Levels: 10-12

Prerequisite: Physical Science

Biology is the study of life. Given that biologists have identified several million life forms on this planet, the potential scope of this course is enormous. The actual scope of this course is to examine the wondrous diversity of life on this planet in an attempt to identify similarities among all organisms. The emphasis is on identifying the basic life functions necessary for continued life which are shared by all life forms, with consideration given to variations existing on these basic themes. This study extends from the molecular level of biochemistry through the structural designs and functions of individual organisms up to the evolution and interactions of populations within the global biosphere. This course is beneficial for any science-related career, including natural resources & health/medical careers.

### **Chemistry** (year)

Grade Levels: 10-12

Prerequisite: Physical Science, Algebra 1, Enrollment in Advanced Algebra is required.

This course will focus on basic to intermediate skills and concepts in chemistry. Topics will be investigated through student investigations, demonstrations, and activities.

Examples of key ideas will be taken from everyday life to help students understand the role of chemistry and chemical processes in their lives. The concepts and skills addressed are key to a wide range of careers including engineering, science, medicine, nursing, and agriculture. This course is strongly suggested for any student planning on going to a four or two year college.

\*Chemistry or Physics is required by the Iowa Regents Universities.

### **Physics (year)**

Grade Levels: 11-12

Prerequisite: Physical Science and Advanced Algebra

This college prep course will give students to a broad understanding of topics in physics which describe and explain the nature of physical interactions. Emphasis is placed on using mathematical models as well as conceptual understanding for statics, dynamics, gravitation, waves, sound, light, electrostatics, electrodynamics, and magnetic forces. The concepts and skills addressed are key to a wide range of careers including engineering, science, and medicine. \*Physics or Chemistry is required by the Iowa Regents Universities.

### **Ecology (year)**

Grade Levels: 11-12

Prerequisite: Physical Science

The focus of the course is to first gain an understanding of the basic ecological principles governing life on this planet. Environmental issues such as air and water pollution, population growth, resource management, wilderness preservation, extinction, nuclear war and any other ecological nightmare present in today's world will be dealt with during the year's study. Field studies, excursions and trips into surrounding natural areas will be utilized to provide research opportunities and educational experiences. This course is beneficial for careers in natural resources and environmental studies.

### **Advanced Biology (year)**

Grade Levels: 11-12

Prerequisite: Physical Science & Biology

Advanced Biology is a continuation of the required Biology course. In this course students will continue to explore the living world. The skills and concepts addressed will be expanding on science as a process, conducting experiments and understanding cells, heredity, and the environment. This course is recommended for anyone that is interested in attending college in a science field.

### **Human Physiology and Anatomy (year)**

Grade Levels: 11-12

Prerequisite: Physical Science and Biology

This course focuses on the structures and functions of the human body. In a sense, this course is an examination of the owner's manual for your body. From your organic molecules, up through the major systems of your body, we consider the equipment you

are constructed from and the individual and cooperative actions of these components. This course is beneficial for any science related career, especially health/medical careers.

**Animal Science** (year)

Please refer to Agricultural Education section for course description.

\* Students will earn science credit at Earlham for this course. The Iowa Regents Universities will not recognize this course as a science credit.

**Plant Science** (year)

Please refer to Agricultural Education section for course description.

\* Students will earn science credit at Earlham for this course. The Iowa Regents Universities will not recognize this course as a science credit.

## SOCIAL STUDIES

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**\*World Geography** (semester)

Grade Levels: 9-12

Prerequisite: None

A comprehensive one semester study of political, economic, physical, and human branches of geography of the world. Emphasis will be placed on the five themes of geography: locations, place, human-environment, interaction, movement, and region. This course is beneficial for a career in any social science career, including sociology or anthropology.

**\*U.S. History** (year)

Grade Level: 10

Prerequisite: None

This course deals with people and events from the Civil War to the present. From this course, the student should get a better understanding of the trends and events that have shaped our country's history. Through this understanding, the student should be able to compare the relationship of events from the past to the present. This course is beneficial for a career in any social science career, including political science and sociology

**\*Western Civilization** (year)

Grade Levels: 11-12

Prerequisite: None

This course consists of history of Western culture from the beginning of man to present day. This course covers the major themes of Western civilization, with an emphasis on Egyptian, Greek, Roman civilization, the medieval world, the Renaissance and Reformation, and the transition to the modern era. It covers the ideological conflicts and wars, such as the French Revolution, Industrialization, and the rise of communism. Emphasis is placed on the shaping of contemporary ideas, values, institutions, and the impact of technology on modern society. This course is beneficial for a career in any social science career, including political science and sociology.

**\*Government 1** (semester)

Grade Levels: 11-12

Prerequisite: None

American government is a one semester course which includes a study of the three basic levels of government in the country (national, state, and local). General discussions of how our governments work individually as well as harmoniously is the basis of the course. Emphasis is on: understanding our constitution: responsibilities of elected executives: responsibilities of the court system, and responsibilities of the legislative system. This course is beneficial for a career in any social science career, including political science and sociology.

**Economics** (semester)

Grade Levels: 11-12

Prerequisite: None

Economics is a one semester course designed to include studies of general economic principles such are: supply and demand, investing, the money system, etc. The course should give the student an understanding of the basic elements of our economic system. It is designed to be a common sense approach, rather than a dollars and cents approach to the subject matter. This course is beneficial for any business-related career.

**Psychology** (semester)

Grade Levels: 11-12

Prerequisite: None

This course deals with the study of individual behavior. Personality development, emotional and social adjustment, and maladjustments, physical growth, and a variety of other related topics are covered. This course is beneficial for any career, including social work, psychology, and careers dealing with human relations.

**Sociology** (semester)

Grade Levels: 11-12

Prerequisite: None

This course deals with the scientific observation and analysis of human social behavior. Some areas of study are: Culture, social organizations, social problems, and social change. This course is beneficial for a career in any social science career, including political science, sociology, and criminology.

**Government 2** (semester)

Grade Level: 11-12

Prerequisite: Government 1

Government 2 will focus on the various institutions, groups, beliefs, and ideas that constitute United States politics. Students will gain an analytical perspective on government and politics in the United States both by studying the general concepts used to interpret U. S. politics and by analyzing specific examples.

**Contemporary Problems** (semester)

Grade levels: 10-12

Prerequisite: None

This course is a student oriented class that requires a great deal of student participation dealing with major current problems. Each student researches and presents a selected topic. Students are presented with various viewpoints on multiple topics through class discussion, readings, videos, and other outside sources. The course also contains an element of problem solving using creative thinking through the course of projects. The students will engage in multiply step problems explain their thinking. This course is beneficial for a career in any social science career, including political science and sociology.

**Performance Philosophy** (semester) *offered on odd years Spring semester*

Grade levels: 11-12, sophomores with approval from instructor

Prerequisite:

Students will look at performance based topics through the lens of philosophical thought. Some of the topics will include history of philosophy, psychology, goal setting, relaxation, motivation, leadership, stress management, and personal philosophies. This class will help students develop a philosophical mindset allowing them to respond to situations with an inquisitive mind. This class does not count as a social studies credit.

## TALENTED AND GIFTED

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### **TAG Program**

Grade levels: 9-12

Prerequisite: identification for the TAG program.

This is an independent course offered for qualified students. TAG may be taken for credit outside the school day or during one regular class period. Individual work could include a project, papers, essays, poetry, or art work. Other special projects may be done with prior approval of the instructor. See the TAG instructor to find out if you qualify. Grade for credit will be pass/fail. Enrollment in TAG for credit is not required to be in the TAG program. Students who are in the TAG program may be eligible to enroll in an Advanced Placement (AP) course. See the TAG instructor if you are interested in taking an AP course. Students in the TAG program are also eligible to take college-level courses through the Career Academy or through PSEO. Please see the school counselor if interested in pursuing these options.

## BUSINESS EDUCATION

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### **Introduction to Business 1** (semester)

Grade Levels: 9-12

Prerequisite: None

This course provides students with information on the characteristics, organization, and operation of a business. Many activities will be done during the year to cover such areas as finance, production, marketing, and planning. This is a general course for all four vocational areas: business education, marketing, family and consumer sciences, and agriculture. This course would be beneficial if you are thinking of a career in business, management, marketing, consumer sciences, or agriculture.

### **Introduction to Business 2** (semester)

Grade Levels: 9-12

Prerequisite: Intro to Business 1

This course expands upon the information covered and skills developed in Intro to Business 1.

### **Business Law** (semester)

Grade Levels: 11-12

Prerequisite: Intro to Business 1

Business Law emphasizes business and consumer applications within the frameworks of federal, state, and local laws. Students will examine the relationship of law and ethics, contract law, sales law & employment law. This course is a foundation in law for those planning to major in business in college to pursue business careers and for personal and consumer applications.

**Accounting 1** (semester)

Grade levels: 10-12

Prerequisite: Intro to Business 1

This course is designed for students who would like to keep better books for themselves or who plan on going into the business field. Included in this course will be check writing, payroll records, and working with books such as journals and ledgers. This course is beneficial for those thinking about a career in accounting, business, or management.

**Accounting 2** (semester)

Grade levels: 10-12

Prerequisite: Accounting 1

This course expands upon the information covered and skills developed in Accounting 1.

**\*Personal Finance** (semester)

Grade Levels: 11-12 Preferably seniors

Prerequisite: None

This course will inform students how individual choices directly influence occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing (skills previously taught in Consumer Math.) Students will design personal and household budgets utilizing checking and saving accounts, gain knowledge in finance, debt and credit management, and evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions leading to financial independences. This class covers all of the 21st Century financial literacy skills that are listed in the Iowa Common Core.

## MARKETING

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**Principles of Marketing** (semester)

Grade levels: 9-12

Prerequisite: none

Marketing is the process of creating & maintaining exchange relationships. Students will learn the function & role of Marketing in our economy. Various marketing functions such as research, advertising, promoting, pricing & selling will be studied. Students will apply the knowledge learned from this class to create a Marketing Plan for a local business. This is an introductory class for anyone interested in the marketing field & taking the Entrepreneurship & Sales Class along with the Sports & Entertainment Marketing Class.

### **Entrepreneurship & Sales** (semester)

Grade levels: 11-12

Prerequisite: Principles of Marketing

Over 70% of all businesses in the US are operated as a Sole Proprietorship. This class will cover all aspects of starting your own business including buying & selling, marketing, managing & financing business startups. We will also look at selling techniques & human relation skills needed by salesmen. The class will work toward creating a business plan for an actual business, going out & selling your product/service & running your own business.

### **Sports & Entertainment Marketing** (semester)

Grade levels: 10-12

Prerequisites: none

Sports and Entertainment Marketing is a 1 semester course that is designed for students with an interest in marketing in terms of the sports and entertainment industries. The course stresses the utilization of fundamental marketing concepts and how they are used within these two industries. Topics include marketing strategies, sponsorship, pricing, market research, endorsements and promotions.

The course will develop critical thinking, decision making and communications skills through real world applications. The course will also include reaching out to members of the Des Moines metro community who have expertise in this field. Students will also be expected to construct a comprehensive, end of course individual product using the concepts and ideas learned throughout the semester to be applied to their own new, unique idea within the area of sports and entertainment.

## **AGRICULTURE EDUCATION**

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### **CASE Introduction to Agricultural Science** (year)

Grade Levels: 9-12

Prerequisite: None

Students participating in the Introduction to Agriculture Science course will experience exciting “hands-on” activities, projects, and problems. Student experiences will involve the study of communication, the science of agriculture, plants, animals, natural resources, and agricultural mechanics. While surveying the opportunities available in agriculture and natural resources, students will learn to solve problems, conduct research, analyze data, work in teams, and take responsibility for their work, actions, and learning. For example, students will work in groups to determine the efficiency and environmental impacts of fuel sources in a practical learning exercise.

### **CASE Plant Science (year)**

Grade Levels: 10-12

Prerequisite: Intro to Ag. Science recommended, not required

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

\* Students will earn science credit at Earlham for this course. The Iowa Regents Universities will not recognize this course as a science credit.

### **CASE Animal Science (year)**

Grade Levels: 10-12

Prerequisite: Intro to Ag. Science

Students will learn about the value and utilization of animals in our lives. Instructional units include: The Industry of Animal Science, Animal Nutrition, Animal Digestion, Animal Physiology, Animal Reproduction, Animal Selection, and Animal Health and Management. FFA and SAE are intra-curricular parts of this class.

\* Students will earn science credit at Earlham for this course. The Iowa Regents Universities will not recognize this course as a science credit.

### **Ag. Business Management (semester)**

Grade Levels: 10-12

Prerequisite: Intro to Ag. Science

This course introduces modern economic and business principles involved in the organization, operation and management of agricultural businesses. Instructional units include: financial and money management, decision-making, record-keeping, financial analysis, budgets, risk, marketing, and sales. Classroom and laboratory activities will be supplemented through supervised agricultural experiences and FFA activities.

### **Greenhouse Management** (semester)

Grade Levels: 9-12

Prerequisite: None

Students will identify opportunities in horticulture, grow horticultural crops, manage a greenhouse and operate a school-based enterprise. Students' main goals will be planning and maintaining the plants in the greenhouse and operating the chapter greenhouse sale. Instructional units include: opportunities in horticulture; greenhouse management and technology; plant propagation and growth; soils and growing media; plant protection; integrated pest management and greenhouse maintenance. FFA and SAE are intra-curricular parts of this class.

### **Conservation & Natural Resources** (semester)

Grade Levels: 10-12

Prerequisite: None

This course is an expansion upon some of the topics covered in the Intro to Ag. Science course. Intro to Ag. Science, however, is not a prerequisite. The course will start with a review of topics of soil: soil profiling, erosion, and eventually lead into soil judging. Soil will be a primary focus during September and October to prepare for the FFA soil-judging contest. The focus will later turn toward land usage and conservation practices. Students will find out more about farming practices, better understand pesticides and their usage, and be able to give land descriptions and identify land capability classes. Toward the end of the course, topics such as weather patterns and the water cycle/pollution will be covered. Throughout the course, there will be an underlying theme of exploring careers in conservation and natural resources.

### **Ag. Leadership** (semester)

Grade Levels: 9-12

Prerequisite: None

Discussion of career development events at the sub district, district, and state levels. This class would offer a chance to explore and prepare for some of those events. Discussion of record keeping, especially in regards to proficiency awards and supervised agricultural experiences. We will discuss leaders in the past and present for both FFA and agricultural Issues. This class includes debate and discussion portions

that would allow for active research and critical thinking about issues in the agricultural world.

**Ag. Mechanics** (semester)

Grade Levels: 9-12

Prerequisite: None

Ag. Mechanics allows students to further develop agricultural mechanics technology knowledge and skills. This hands-on course will cover units of study including: engines and power systems, metal fabrication and welding, and agricultural machinery maintenance and repair. The final component of this course includes the planning, design, and completion of an agricultural mechanics project – ranging from tractor restoration, woodworking projects, metal projects, or any other instructor approved project. Classroom and laboratory activities will be supplemented through supervised agricultural experiences and FFA activities.

**Ag. Welding** (semester)

Grade Levels: 9-12

Prerequisite: None

Ag. Welding is an expansion of what is learned in Ag Mechanics. It is recommended that students take Ag. Mechanics prior to this course, but it is not required. Ag Welding focuses on three types of welding: Mig, Arc and Oxy Acetylene. This course will also allow students to learn how to properly cut metal with a plasma cutter as well as an Oxy Acetylene torch. During the first part of the semester, students will focus on safety and a list of welding types and positions that students will have to master. Students will develop a write up for a project. The second half of the semester will be dedicated to the completion of the metals project that the students prepared earlier.

**Agronomy (Crop Science)** (semester)

Grade Levels: 11-12

Prerequisite: Intro to Ag.

The course is a study of principles of plant, soil, and climate relationships and their impact on crop production and animal food supply worldwide. Other topics covered are plant identification, anatomy and growth, as well as tillage and planting, pest control, harvesting and storage.

**Ag. Independent Study** (semester)

Grade Levels: 10-12

Prerequisite: Intro to Ag. & Instructor Approval

This course will allow a student to select a specific area within agriculture to study and complete a project on. Students must submit a plan of study to instructor prior to enrollment in course and receive instructor approval prior to taking this course.