

IOWA VALLEY
COURSE DESCRIPTIONS
COURSE OFFERINGS
2017 - 2018

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AGRICULTURAL SCIENCE & TECH (elective)

Agricultural Science I (year)	9-10
Agricultural Science II (year)	10-11
Introductory Horticulture (1 st Semester) KCC	11-12
Landscape Design (2 nd Semester)	11-12
Survey of Animal Industry (1 st semester) KCC	11-12
General Ag (2 nd semester)	11-12
Welding (1 semester)	11-12
Advanced Welding (1 semester)	12
Intro To Precision Ag (1 semester) KCC	11-12

ART (elective)

Art I (1 semester)	9-12
Art II (1 semester)	9-12
Art III (1 semester)	10-12
Art IV (1 semester)	10-12
Independent Art I* (1 semester)	11-12
Independent Art II* (1 semester)	11-12

*Instructor Approval Required!

BUSINESS EDUCATION (elective)

Basic Computers (1 semester)	9-12
Accounting (year)	10-12
Business Management/Yearbook (year)	11-12

ENGLISH/ LANGUAGE ARTS (4 years required)

English 9 (semester)	9
Speech 9 (semester)	9
English 10 (year)	10
Honors English (year)	10
Reading Strategies (year)	9-11

Juniors must take either:

Communications (1 semester)	11-12
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AND 1 Language Arts Elective (1 semester)

OR Adv. Placement English Lang. & Comp. (year)	11-12
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Seniors must take one of the following:

Adv. Placement English Literature & Comp. (year)	12
Senior English (year)	12

Language Arts Electives

Creative Writing	10-12
British Literature	11-12
Sports Literature	11-12
Media Communications	11-12
Drama	11-12

FAMILY & CONSUMER SCIENCE (elective)

Creative Living (1 semester)	9-12
Independent Living (1 semester)	10-12
Child Development (1 semester)	9-12
Family Living (1 semester)	11-12
Food, Health & Nutrition I (1 st semester)	9-12
Food, Health & Nutrition II (2 nd semester)	9-12

FOREIGN LANGUAGE (elective)

Spanish I (year)	9-12
Spanish II (year)	10-12
Spanish III (year)	11-12
Spanish IV (year)	12

HEALTH (1 semester required)

Health I (1 st semester)	9-12
Health II (2 nd semester)	9-12

INDUSTRIAL ARTS & TECHNOLOGY (elective)

Introduction to Architecture & Construction (year)	9-12
Principles of Architecture and Construction (year)	10-12
Construction and Architecture (year)	11-12
Residential and Commercial Construction (year)	12
Drafting & Design I (1 semester)	9-12
Advanced Drafting & Design (1 semester)	11-12

MATHEMATICS (3 years required)

Intro to Algebra (year)	9
Personal Finance Math (year)	10-12
Business Math (year)	12
Pre-Algebra (year)	9-12
Algebra I (year)	8-12
Geometry (year)	9-12
Algebra II (year)	10-12
Pre-Calculus (year)	11-12
AP [®] Calculus AB (year)	11-12

MUSIC (elective)

High School Concert Choir (year)	9-12
High School Band (year)	9-12

PHYSICAL EDUCATION (required each semester)

9-12 PE	9-12
Weight Training & Conditioning	9-12

SCIENCE (3 years required)

Biology (year)	9
Honors Biology (year)	9
Physical Science (year)	10
Advanced Biology (year)	11-12
Anatomy and Physiology (year)	10-12
Chemistry (year)	10-12
Physics (year)	11-12
Advanced Placement Chemistry (year)	11-12
Advanced Placement Physics (year)	11-12
Environmental Science (1 semester)	11-12
Earth Science (1 semester)	11-12

SOCIAL STUDIES (3 years required)

American History (year)	9
World History (year)	10
Psychology (1 semester)	11-12
Sociology (1 semester)	11-12
Government (1 semester)	11-12
Economics (1 semester)	11-12
Western Civilizations (1 semester)	11-12
Topics in US History (1 semester)	11-12

Work Experience-(1/2 credit)-IEP students only 11-12**Other Academy Classes (elective)**

Architectural Plans and Specs (year) (EV)	11-12
Fundamentals of Welding (year) (W'burg)	11-12
IND Tech Building Trades (year) (EV)	12
Health Careers (year) (IV)	11-12
EMT (year/semester) (IV)	12
Introduction to Engineering (1 st semester) (W'burg)	11-12
Principles of Engineering (2 nd semester) (W'burg)	11-12
How College Works (1 semester)	12
Intermediate Business Applications (1 semester)	11-12

PSEO (elective)

Post Secondary Enrollment Option Classes	
Kirkwood Credit (1 semester)	11-12

*Denotes course pending School Board approval

**All students who sign up for year courses will be expected to take them

AGRICULTURAL SCIENCE AND TECHNOLOGY

AGRICULTURAL SCIENCE I

Year-long course

Grades: 9-10

Many topic areas are included in the course to allow maximum exploration of the agricultural industry and its importance in their daily lives. Students will be introduced to the FFA, Supervised Agricultural Experience Program and Leadership Development. Leadership Development continues through the FFA program, students will understand parli pro and basic public speaking through the FFA creed. The course will examine the major career areas in agriculture production, products and processing. Emphasis is given to the animal science area. Nutrition, reproduction, health, selection, marketing, and management will be discussed. Students will raise poultry in the classroom.

AGRICULTURAL SCIENCE II

Year-long course

Grades: 10-11

Students will have an understanding of soil practices, soil formation, land classification and use, and soil fertility. This course will prepare students to be stewards of our land. Students will investigate animal and plant species that naturally occur in Iowa. Students will be able to use the knowledge learned in this course in soil judging contests. We will examine the uses of small engines, construction, plumbing, welding in areas of agriculture. Selection, maintenance and repair, and employability are major topics in small engines. Students will understand the fundamentals of basic construction and demonstrate applied skills through project construction. Students will apply shielded metal arc welding, and metal inert gas welding (wire welding) processes to fusion-weld mild steel with appropriate welding electrodes and related equipment. Student will be able to weld a variety of joints in various positions. Leadership Development continues through the FFA program. Advanced leadership skills are covered such as parli pro, public speaking and radio broadcasting. Four to Five weeks are allotted to a self-determined shop project.

INTRODUCTORY HORTICULTURE

1st Semester

Grades: 11-12

This course will explain the basic plant systems and the careers in the popular horticultural industry. Students will study the growth and production of flowers, plants, fruits, and vegetables. Students will also learn about growing media, propagation, germination, transplanting, and maintenance practices. Class lab work will include use of greenhouse. 3 college credits are available from Kirkwood Community College (Dual Credit)

LANDSCAPE DESIGN

2nd Semester

Grades: 11-12

Students will be instructed in practical landscape design. Students will be creating designs utilizing plant knowledge and artistic principles. Plant identification will be introduced; common plants in the landscape will be studied. Students will develop problem solving and communication skills as well as work with computer design software. New trends in sustainability and landscape maintenance will also be explored. Practical landscaping on the school grounds or a residential area will be one of the hands-on activities in this course.

SURVEY OF THE ANIMAL INDUSTRY

1st Semester

Grades: 11-12

Students interested in veterinary science and animal care will benefit from taking this course. Production practices and usage of companion animals and food animals will be studied. Students will investigate animal diseases and disease prevention, production methods of large food animals and companion animals, pet grooming, animal behavior, nutrition, legal principles, human relations, communication and technology usage in the animal science industry. 3 credits are available from Kirkwood Community College

GENERAL AG

2nd Semester

Grades: 11-12

This class is geared for juniors and seniors who have had at least two years of Ag classes and FFA membership. If you have not had the required FFA membership, the class will help you develop agricultural knowledge, leadership, accountability, and professionalism. This course will examine the job opportunities that exist in agribusiness. Business communication will be emphasized through the FFA. Preparing a resume, letter of application and interviewing are stressed. This course can cooperatively work with the student's FFA SAE program. Students will prepare the Iowa FFA Degree and Proficiencies in FFA during this first three to four weeks of this course. Students will have instructional units in welding, advanced animal sciences and horticulture. Four to Five weeks of the semester is allotted to a self-determined project.

WELDING/ ADVANCED WELDING

Grades: 11-12

Arc and gas welding is covered during the first quarter of the semester. The course covers career opportunities and trade-skills in metal construction. Arc welding, oxy acetylene welding and cutting, brazing, and MIG welding will be covered. During the second quarter students plan and construct projects. A field trip to a major industry, which utilizes welding, will be included. This class is for juniors and seniors only. There is a class limit of 10 Welding students and 4 Advanced Welding students due to space. It may only be taken twice by any one student.

INTRODUCTION TO PRECISION AGRICULTURE

Grades: 11-12

Students will be utilizing agricultural precision technology to analyze information collected from ag/environmental areas to create useable maps that explain and interpret information to help agriculturalists/environmentalists make decisions. This technology is known as GPS (Global Positioning System) and GIS (Geographic Information System). Students will learn by utilizing handheld GPS units and the ArcView software programs. Basic principles of crop science such as plant physiology, soil properties, cultivation practices, disease and pest management will be investigated in this course. Activities will include field trips to local agricultural businesses to help students make a career/real world connection with the material that is studied in this course.

This course is part of the career-focused Career Edge Academy through Kirkwood Community College (KCC). This course is for junior and seniors only. 3 college credits are available

**Dual credit*

ART

ART I AND II

Grades: 9-12

Art I and II are introductions to basic concepts, elements and principles of art. Techniques will be explored with a variety of media. They will emphasize the two dimensional areas such as drawing, painting and printmaking, as well as the three dimensional areas such as sculpture, ceramics and other various three dimensional media.

ART III & VI

Grades: 10-12

These courses are designed to give students an opportunity to further explore media and techniques. Emphasis will be on, but not limited to drawing, painting, printmaking, ceramics, sculpture, fibers, and glass. Students will experiment to develop their own individual style and techniques.

INDEPENDENT ART I

Grades: 11-12

Prerequisites: Art I, II, III, and IV

Instructor approval required

Independent Art is an advanced art course designed to give serious art students the opportunity to choose their own project ideas. Students who take this course should be hard-working, self-motivated individuals who have the ability to stay on task and work on their own. There are a set amount of projects expected to be completed each quarter by certain due dates within that quarter. Students will be expected to use and experiment with a variety of artistic media. This course should only be taken by students who demonstrate responsibility in developing their own project ideas, getting approval for assignments, and meeting deadlines.

INDEPENDENT ART II

Grades: 11-12

Prerequisites: Art I, II, III, and IV, Individual Art I

Instructor approval required

Independent Art II is an advanced art course specifically designed to cater to those individuals who have taken Individual Art I and have gone above and beyond in their work to show serious interest in visual art. Like Individual Art I, students should demonstrate a tremendous work ethic and be highly intrinsically motivated. A set amount of projects will be completed each quarter and deadlines must be met independently. This course may only be taken by those who have completed one semester of Individual Art I and have received an A or B as a semester grade for that course.

BUSINESS EDUCATION

BASIC COMPUTERS

1 Semester

Grades: 9-12

During the first quarter, Microsoft Office is covered. This course focuses on various presentation styles used with Microsoft PowerPoint. A portfolio made in PowerPoint is also a project. The second half of the course uses Microsoft Excel. This teaches the basics of entering the information and manipulating it. Students will learn formulas, create various charts, graphs and reports. A final combination project teaches the students about surveying as well. During the second quarter, Photoshop is the main focus. This includes learning about how color schemes flow, editing pictures in Adobe Photoshop, using various office accessories such as printers, scanners, and pulling pictures off of cameras. Microsoft Publisher will be used to produce various documents such as fliers, calendars, newsletters, brochures and letterheads. Web design is also taught as another form of publishing using various designers. Database work may be touched on.

ACCOUNTING I

1 Semester

Grades: 10-12

The following areas are presented: the complete accounting cycle for a service business, payroll, and banking. The following areas are presented second semester: the complete accounting cycle for a merchandising business, special journals and ledgers, depreciation, notes and interest. The course is presented through textbook-workbook study with several accounting kits completed during the course. The computer will be used in all aspects of accounting after learning the basic principles. It is a valuable course from a personal and vocational standpoint.

BUSINESS MANAGEMENT / YEARBOOK

Year-long course

Grades: 11-12

Prerequisite: Basic Computers & a cumulative 2.0 GPA or better

Business Management is a year-long course that is also in charge of producing the yearbook. This course is intended for those who want to work in the business world someday. Course includes the basic types of business, various aspects of business including sales, marketing, public relations, human relations, management theories, business finance, business law, business communications and how the internet has changed all of that. All of these will be applied to the production of the yearbook from start to finish, as students will produce the physical yearbook, sell sponsorships and advertisement, and work with various groups and organizations to ensure the product is finished on time.

ENGLISH/LANGUAGE ARTS

ENGLISH 7

Seventh Grade English will begin with a focus upon how a person reads. We will examine the process of reading, practice different strategies and examine the fact that not everyone uses the same reading techniques to arrive at a final understanding of a particular work. As the year progresses we will move into implementing these strategies as we read various works from different genres. (Short fiction, novels, plays and poetry). Basic elements of fiction will be discussed throughout as well as examining the effect which an author can achieve by utilizing some or all of these elements within written works.

A writing workshop will examine and practice the skills needed to create fiction in multiple genres as well as provide students with an opportunity to practice some of their own writing techniques/styles. Written language skills will be taught and practiced as well as the skills of proof reading and editing work to create a truly finished piece of writing.

Spelling and grammar skills will be discussed and emphasized throughout the course in the forms of weekly spelling tests and periodic grammar review sessions.

ENGLISH 8

Eighth grade language arts builds upon and expands upon work completed in seventh grade language arts. The course will encompass the study of vocabulary, spelling, literature, and usage problems. Literature will be studied for the insights into human nature it provides the reader and its reflection of our society's morals and values. Spelling and vocabulary will be broadened and developed through learning to use context for word meaning and structural analysis. Words are taken out of current literature being studied and will encompass the use of technology. The mechanics of English and spelling will be studied both independent of and in conjunction with written composition.

SPEECH 9

1 Semester

Grade: 9

This course develops the necessary skills needed to write and deliver effective speeches. The class will focus on building students' understanding and confidence in public speaking. Students will study both delivered speeches as well as write and deliver their own using developed outlines. Speech types may include: Welcome, Introduction, Informative, Persuasive, Expository, and Personal Experience. Students will utilize new technology into presentations. Students will also critically reflect on their own speaking.

ENGLISH 9

1 Semester

Grade: 9

This course will carry an emphasis upon the reader and how well they, as readers, interact with texts during the reading process. Readers bring a great deal of information with them to any story which they read, and this information can and does affect how that reader understands the text. Concepts such as "Good guys" and "Bad guys", "Heroes", and "Villains" are brought into texts by the readers and these concepts impact that readers understanding of the text. How and why this occurs will be the focus of 9th grade English. Writing skills will be discussed and practiced through assignments and presentations about texts. Works read will include short stories, poems, one novel (Orwell's 1984) and one Shakespearean work (Othello).

ENGLISH 10
Year-long course
Grade: 10

Prerequisites: English 9, Speech 9

English 10 builds and expands on the work completed in English 9. The course will include practice in reading, writing, listening, and speaking. Mechanics and grammar will be taught through writing done by students and may be supplemented with daily practice. American literature will serve as the basis for vocabulary study and much of the class work which may include: literary analysis, journals, letters, poems, short stories, and essays. In addition, students will explore a potential career in a documented research paper that will include work with the counselor, online resources, and an interview with a person working in that career field. Students will read three novels in class, three novels outside of class, and numerous short stories, essays, poems, and plays.

HONORS ENGLISH
Year-long course
Grade: 10

Honors English is an accelerated class that builds and expands on the work completed in English 9. Students will be required to think deeply and richly about the literature they will be exposed to in this course. The course will include practice in reading, listening, and speaking along with a heavy emphasis on a variety of writing skills to prepare students for future classes. American literature will serve as the basis for vocabulary study and much of the class work which may include: literary analysis, journals, letters, poems, short stories, and essays. Students will be expected to read novels both in class and outside of class along with short stories, essays, poems, and plays. Students should expect a rigorous, challenging, and active experience in the course.

COMMUNICATIONS
1 Semester
Grades: 11-12

Prerequisites: English 10

This course develops the necessary skills needed to write and deliver effective speeches. The class will focus on building students' understanding and confidence in public speaking. Students will study both delivered speeches as well as write and deliver their own. Students will also work to incorporate new technology into presentations. Speech types may include: Informative, Persuasive, Welcome, Introduction, and Personal Experience. Students will also reflect on their own speaking critically.

COMPOSITION
1 Semester
Grades: 11-12

Students will write in a variety of modes for a variety of audiences during the semester. Students will write in descriptive, narrative, persuasive, expository, definition, and documented research forms. Essays by recognized authors will be studied for structure, style, literary devices, and effective introductions and conclusions. In addition, students will have regular language practice in grammar, usage, mechanics, and spelling and vocabulary development exercises. For those students considering taking the Advanced Placement Examination at the end of their senior year, practice will be provided for responding in timed essays.

DRAMA
1 Semester
Grades: 11-12

Prerequisites: Speech (or participation in extracurricular speech and/or drama with teacher recommendation)

This course expands on students' skills in composition and delivery of speeches and dramatic performances. Students will study presentation and delivery of scenes, while critically evaluating them. Students will explore a variety of playwrights (from Greek theater to contemporary plays). Focus will also be given to stage production including set design, costuming, makeup, and lighting and sound.

AP ENGLISH LANGUAGE AND COMPOSITION

Year-long course

Grades: 11-12

Prerequisites: Completion of English 10 or Honors (and with recommendation of most recent English teacher)

AP English Language and Composition is a full-year course that aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. Students should be able to read and comprehend college-level texts and apply the conventions of Standard Written English in their writing. Students will seek to have their writing published each semester.

SENIOR ENGLISH

Year-long course

Grade: 12

Prerequisites: Completion of two approved Eleventh Grade English courses

Senior English is a full-year course that builds and expands upon the basic fundamentals of reading, writing, and speaking learned the previous years. The course will include the reading and study of novels, short stories, poems, and readings in media-related materials. Literature will be studied for the insights into human nature, a reflection of our society's morals and values, and its influence on society. Vocabulary will be broadened and developed through learning to use context for word meaning and word origin. Composition of writings will include comparison, descriptive, creative prose writing, and literary analyses.

ADVANCED PLACEMENT LITERATURE AND COMPOSITION

Year-long course

Grade: 12

This course will contain essentially the same material and assignments as the College English course. In addition, skills and concepts needed to pass the AP Exams in Literature and Composition are stressed in this course. *Students should have at least a B average in previous language arts course and be willing to undertake college level reading and writing assignments. Prerequisite readings for registration for this course are waived for those successfully completing AP Language and Composition.* In addition to the reading and writing done in the regular College English class, Advanced Placement students will be required to complete additional reading, vocabulary, and writing assignments each quarter on a pass/fail basis. Assignments not initially receiving a passing grade will be redone until a passing score is reached.

INDIVIDUALIZED READING

1 Semester

Grades: 11-12

This course is designed for those students who like to read. All books read will be selected by the students, unless the student plans to take Advanced Placement College English. For those students planning to take College English three novels and one play of recognized literary merit will be incorporated into their contracts.

The teacher will help students select materials that meet their interests and abilities. The amount of reading to be done by each student will be calculated individually according to the student's reading speed and ability. A grading contract for each quarter will be negotiated between the student and the instructor. Students will be expected to demonstrate their comprehension of the material read through conferences with the instructor and written and oral presentations to the instructor and/or class.

READING STRATEGIES

Year-long course

Grades: 9-12 *Teacher recommendation

Required for students testing below proficiency. Students receive 1 elective credit for each semester. Reading Strategies is designed to improve students' reading comprehension skills, comfort level with reading tasks and broaden students' vocabulary. Research based instructional techniques in the areas of vocabulary, and reading comprehension is used to deliver class content to students. Students work individually and in pairs, create and study class vocabulary, read independently, complete book reports and conferences, apply reading strategies, as well as participate in large group activities. Instructors monitor reading growth using data collected from bi-weekly Jamestown comprehension tests, and weekly vocabulary tests.

Factors considered in determining who will be enrolled in the class include:

ITED/ITBS below 41% in Reading Comprehension

RIT Scores on MAPPS Testing (below grade level)

Jamestown Readers (below grade level)

Teacher Evaluation (which would include classroom performance in Literacy)

Factors considered in determining who will exit the class include:

ITED/ITBS at or above 41% in Reading Comprehension

RIT Scores on MAPPS Testing (at or above grade level)

Jamestown Readers (at or above grade level)

Teacher Evaluation (which would include classroom performance in Literacy)

LANGUAGE ARTS ELECTIVES

MEDIA COMMUNICATIONS (FILM STUDIES)

1 Semester

Grades: 11-12

Prerequisites: English 10 or Honors

Film Studies is a semester-long class which meets the IV English requirement for Grade 11 Literature Credit. Stories told with radio and film have a tremendous influence on our attitudes and perceptions of the world around us. In fact, these media may be one of the most powerful tools in modern culture for shaping values and conveying information. By viewing, studying, discussing, and writing about film and creating their own, students develop and demonstrate skills in technological, cultural, and media literacy, as well as critical thinking and problem solving - skills that will serve them well in the real world. This course incorporates and continues to develop composition and writing skills as well as functional reading skills and oral interpretation skills introduced in previous English classes. Possible technology platforms include music/sound broadcasting (podcasting), and photo/video creation and editing.

BRITISH LITERATURE

1 Semester

Grades: 11-12

This course focuses on an interactive approach to the study of literature, incorporating literary theory and reading comprehension, research, writing, listening, and speaking skills. Course study will include a variety of genres with British literature presented in a thematic pattern. Composition in all genres is a major component of this course, as well as development of analytical and critical thinking skills. Grammar, mechanics, and usage will be covered within the context of the literature and writing.

SPORTS LITERATURE

1 Semester

Grades: 11-12

Sports Literature is a Language Arts class that will examine the unique relationship between sports and society through literature by contemporary authors, columnists and other media. Reading in the course is selected to be high-interest and thought provoking. Text selections will include informational text, poetry, biographies and commentary. Writing in this course will include argument, informative, and narrative, pieces.

CREATIVE WRITING

1 Semester

Grades: 10-12

This foundational course in creative short story writing is geared toward creative writing interests. Students learn about character, dialogue, voice, style and description in fiction. The course provides them with the opportunity to delve deeper into the analysis of selected short fiction and to work on stories of their own. Time is set aside for class discussion of student work as well as for re-writes.

DRAMA

1 Semester

Grades: 11-12

Prerequisites: Speech (or participation in extracurricular speech and/or drama with teacher recommendation)

This course expands on students' skills in composition and delivery of speeches and dramatic performances. Students will study presentation and delivery of scenes, while critically evaluating them. Students will explore a variety of playwrights (from Greek theater to contemporary plays). Focus will also be given to stage production including set design, costuming, makeup, and lighting and sound.

FAMILY AND CONSUMER SCIENCE

CREATIVE LIVING

1 Semester

Grades: 9-12 (Class limit of 16)

This course will permit students to employ and utilize their creative talents. The class is designed to meet the students' needs. They will have the chance to learn how to create and design cards using rubber stamps as well as a memory book. In the sewing section, students will delve into creating and making various decorative crafts. You may learn skills such as crochet, counted cross stitch and embroidery. Students will have the opportunity to learn about color and design and how to incorporate these into a room design.

INDEPENDENT LIVING

1 Semester

Grades: 10-12 (Class limit of 16)

This is a one semester course that will prepare you for living on your own. The course includes a basic study of food and nutrition as well as an understanding of the importance of a healthy lifestyle. Banking basics, using credit, insurance, investments, consumer education, career planning, as well as clothing and home care are covered. This class will give you basic information to help you make good decisions and choices when you are out on your own.

CHILD DEVELOPMENT

1 Semester

Grades: 9-12 (Class limit of 16)

The first part of this course deals with the joys and responsibilities of parenting, providing students with information that will someday help them when making their decision to parent. Later in the course, students will study the characteristics of children and learn more about children through actual experiences with them.

FAMILY LIVING

1 Semester

Grades: 11-12 (Class limit of 16)

This semester course takes a close look at marriage and family life. Students will have the opportunity to plan their own mock wedding. Time will be spent to learn basic skills in the management of personal financial affairs. You will become more aware of the personal decisions you will make in life and the society influences that affect those decisions. By using the information obtained in this course, it is the hope that you will be able to make more knowledgeable choices now and in the future.

FOOD, HEALTH, AND NUTRITION I

1 Semester

Grades: 9-12 (Class limit of 16)

This course is designed for a more in-depth study of nutritious foods and their preparation. The basic concepts of food preparation in each of the food groups will be covered. Some time will be spent studying food purchasing and meal planning to fill different requirements such as budget, time, and energy constraints. Special nutritional concerns such as cholesterol, fat, and sodium will also be explored.

FOOD, HEALTH, AND NUTRITION I

1 Semester

Grades: 9-12 (Class limit of 16)

This course will allow students to further develop basic cooking skills. Students will have the opportunity to try cooking for the low fat and cholesterol diet as well as experimenting with microwave cooking. You will learn skills for being a better consumer as well as for planning and preparing meals. Time will be spent learning about the culture and cuisine of various countries. You will have the opportunity to prepare foods native to these countries.

FOREIGN LANGUAGE

SPANISH I Grades: 9-12

Prerequisite: Earn a C- or better in their English class before taking Spanish or with teacher's prior approval.

Sentence structure and grammar including subject pronouns, present tense verb conjugation, possessive adjectives, definite and indefinite articles, noun-adjective agreement, indirect and direct object pronouns and the present progressive will be included in this course. Vocabulary will include greetings, Spanish speaking countries, the Spanish alphabet, numbers, days, months, classroom commands, school subjects and items, colors, physical description adjectives, clothing, family members, telling time, question words, places, emotions, talking on the telephone, making comparisons, weather, transportation, giving directions and shopping. Accompanying videos sharpen students' listening skills. A year end Quinceañera party is a highlight of Spanish I.

SPANISH II Grades: 10-12

Prerequisite: Pass both semesters of Spanish I and earn a C- or better in their English class before taking Spanish or with teacher's prior approval.

Spanish II students focus on talking about actions from the past conjugating verbs in the preterite and imperfect tenses. Other grammar topics covered in Spanish II are: demonstrative adjectives and pronouns, possessive adjectives and pronouns, reflexive pronouns, the progressive tense, double object pronouns, adverbs and commands. Vocabulary topics include airplane travel, food and ordering in a restaurant, fine art, means of communication, childhood activities, family celebrations, staying fit and healthy including health care, beach activities, chores, making travel plans and rooms and furniture. The on-going story, began on the Spanish I videos, is continued during Spanish II. Students will read short stories written for language learners.

SPANISH III Grades: 11-12

Prerequisite: Pass both semesters of Spanish II and earn a C- or better in their English class before taking Spanish or with teacher's prior approval.

The third year of Spanish focuses on perfecting grammar skills. The present and past tenses are reviewed. Perfect tenses and the subjunctive are introduced. The full function of the reflexive tense is presented. Commands and the subjunctive round out a Spanish three student's knowledge. Vocabulary topics include: physical descriptions, jewelry and accessories, household chores, volunteer work, ecology, animals, graduation and other celebrations, and the world of work. Countries that are Spanish speaking are studied. Project themes include a PowerPoint about a Spanish speaking region of the world, Latin-Americans, civil rights, an advertising campaign about the conservation of resources, planning a trip to Costa Rica, and the job interview process.

SPANISH IV Grades: 12

Prerequisite: Pass both semesters of Spanish III and earn a C- or better in their English class before taking Spanish or with teacher's prior approval.

Students will utilize the Spanish language skills acquired during their previous years of study to learn about Latinos, Spanish, Mexican and Central American history and culture. Spanish IV students read books and complete related writing projects in Spanish including an intermediate version of "Don Quijote" or "El Cid" and a 400 page novel "La ciudad de las bestias". Grammar presented in the lower levels of Spanish is reviewed. Auditory and oral Spanish language skills are focused on in Spanish IV. A project about foods from all the Spanish speaking nations is a highlight of Spanish IV.

HEALTH

HEALTH 1

1 Semester

Grades: 9-12 (Class limit of 16)

Health 1 is a semester class that examines the knowledge, ideas and concepts needed to live a healthy life in today's world. This includes mental and emotional health, sexually transmitted infections, growth and development, substance abuse, nutrition as well as other current health issues.

HEALTH 2

1 semester

Grades: 9-12 (Class limit of 16)

Health 2 is a semester class that concentrates on current health issues that are of interest to high school students. Topics include nutrition, personal health, care and prevention of injuries, growth and development, communicable and chronic diseases, and prevention of life style diseases such as obesity, heart disease, and cancer.

INDUSTRIAL TECHNOLOGY

INTRO TO ARCHITECTURE AND CONSTRUCTION (IND TECH 1)

1 Semester

Grades: 9-12

The course begins by examining careers in this CTE strand, which includes but not limited to careers in: building trades, construction, estimating projects and materials, architecture, interior design, home repair and remodeling. The course also has units of fundamentals drafting, in which students will have the opportunity to use our CAD (Computer Aided Drafting) program as well as manual drafting tools to complete beginning level drawings in schematic, multi-view, perspective, pictorial and sectional drawings. This course is also designed as an introductory level to construction strand. Students will have exposure to the tools and machines used in general construction, both portable and stationary tools and equipment. Safety as always will be an important issue discussed and obeyed in each laboratory setting. Students are required to purchase a pair of Safety glasses (Z87.1) to be worn in the class, and a 1 1/2 ring binder for project plans. The students will gain knowledge of all the instruments, machines, tools, and methods needed to successfully complete a quality project. This is scheduled as a yearlong course.

PRINCIPLES OF ARCHITECTURE AND CONSTRUCTION (IND. TECH II)

1 Semester

Grades: 10-12

Prerequisite: Ind Tech 1 or prior approval of the instructor

The course begins with advanced levels of drafting, which will include: schematic, multi-view, perspective, pictorial and sectional drawings as well as continuing to incorporate our CAD program which will include; multi-view, 3-dimensional and dimension drawings. Students in this course will also learn about home maintenance and repair, general remodeling projects found around a residential home, which will include but not limited to careers found in this this area or surrounding communities. Students will learn about cabinet construction, masonry, bricklaying, roofing and exterior residential finish construction. This is scheduled as a yearlong course.

CONSTRUCTION AND ARCHITECTURE (IND TECH III)

1 Semester

Grades: 11-12

Prerequisites: Ind Tech I and II. This course is designed grades 11 and 12 or consent of the instructor

The course is divided into two main parts: Part I - Architectural Design and Modeling and Part II - Advanced Construction. The first quarter is spent planning and drafting a house of the student's own design. The student will be expected to use the CAD system to draw their plans. During the second quarter the students will then use these blueprints to build a detailed, scale model of the structure. The second semester, the students will be introduced to different areas of construction systems that were not encountered in Ind Tech I or II. This is scheduled as a yearlong course.

RESIDENTIAL AND COMMERCIAL CONSTRUCTION (IND TECH IV)

Year-long course

Grade: 12

Prerequisite: Industrial Arts and Technology I, II, and III or consent of the instructor

Industrial Arts and Technology IV is a one year course for the advanced and serious construction strand student. This is an independent study type class where the student works at his/her own pace on a major construction project. The student is expected to display a high degree of skill, knowledge, and responsibility throughout the course. The student will also be able to use the CAD system to create a set of architectural drawing plans of a ranch style home, while incorporating a unit on basic framing and construction principles and a model of the designed residence. This is scheduled as a yearlong course.

DRAFTING AND DESIGN I

1 Semester

Grades: 9-12

A semester course designed to introduce students to different careers and areas of drawing, and designing principles. These areas include sketching, line practice, geometrics, multi-views, dimensioning, sections, pictorials, and patterns. The student will master the above areas using conventional drafting tools and techniques with intentions of mastery and then completing similar but more advanced drawings using our CAD (Computer-Aided-Drafting) program.

ADVANCED DRAFTING AND DESIGN

1 Semester

Grades 11-12

Prerequisite: Drafting and Design I.

This semester course is designed to challenge the student that is interested in gaining advanced knowledge and skills in the areas of drafting and design. The student will use prior fundamental techniques used in Drafting and Design I to develop a broad foundation in the use of drafting tools and the use of the CAD program. By using our CAD system the student will develop fundamental knowledge and skills which are conceptually applicable to most CAD systems.

MATHEMATICS

7TH MATH

This course connects the math classroom to the Iowa Core. The Glencoe Math Connects, Course 2 that is used ensures student success with rigorous content specifically designed to meet the Iowa Core State Standards. The content is available in print, as well as through a suite of technology on student IPADS, with student resources being delivered via one robust online portal, ConnectED. Areas studied in this course include; expressions and patterns, integers, rational numbers, equations and inequalities, proportions and similarity, percent, volume and surface area, measurement and proportional reasoning as well as polygons and transformations.

8TH MATH

This course continues to build on the areas studied in Math 7. Using the Glencoe Math Connects, Course 3 it will continue to ensure student success with rigorous content specifically designed to meet the Iowa Core State Standards. The content is available in print as well as through a suite of technology on student IPADS, with student resources being delivered via one robust online portal, ConnectED. Areas studied in this course include; rational numbers and percent, real numbers and monomials, equations and inequalities, multi-step equations and inequalities, expressions and functions, two- and three-dimensional geometry, triangles and transformations, units of measure, as well as area and volume. This course also includes a personal finance component. Concepts taught will include; introduction to personal finance, saving, budgeting and debt. This will show students how to take control of their money and help them avoid huge money mistakes in the future.

INTRO TO ALEGRA

Grades: 9

Intro to Algebra is for freshman who have not mastered the concepts necessary to do algebra problems. Students in this class will have the option to go to Personal Finance, Pre-Algebra, or Algebra I after completion of this course. This course will cover the language of algebra, integers, fractions, rational numbers, solving equations, solving inequalities, graphing equations, and inequalities, proportion, percent, perimeter, area, volume, monomials, and polynomials. This is an introductory course where students will cover the skills necessary to do algebra. This course will count as a credit towards graduation.

PERSONAL FINANCE MATH

Grades: 10-12

Prerequisite: 1 year of math credit

This is a full year course open to grades 10, 11, and 12. Basic math skills of addition, subtraction, multiplication, and division are applied to consumer skills needed by individuals in the real world. Topics covered are gross income, net income, budgets, checking accounts, savings accounts, cash purchases, credit cards, loans, vehicle transportation, housing, insurance, and investments.

BUSINESS MATH

Grades: 12 only

Prerequisite: 2 years of math credit, one must be Personal Finance Math

In this course students will explore mathematical applications in typical business situations, such as figuring traveling expenses, figuring purchase discounts, and calculating item depreciation. Topics covered are personnel, production, purchasing, sales, marketing, warehousing and distributing, services, accounting, accounting records, financial management, and corporate planning. This course gets students in the “inside” of how a business functions. Students will also have the opportunity to learn the ins-and-outs of running a store by participating in operating the school store Tigers’ Pride.

PRE-ALGEBRA

Grades: 9-12

Pre-algebra is intended for those students who would like to take Algebra I but feel they have not mastered the concepts necessary to do algebra problems. This course is to be taken with the intent to take Algebra I the following year. Topics covered are the language of algebra, integers, fractions, rational numbers, solving equations, solving inequalities, graphing equations, and inequalities, proportion, percent, perimeter, area, volume, monomials, and polynomials. This course will count as a credit toward graduation.

ALGEBRA I

Grades: 9-12

(8th grade teacher recommendation)

Algebra I is a year study of expressions, equations, functions, rational numbers, ratios and proportions, linear equations, inequalities, polynomials, factoring, quadratic and exponential functions. Emphasis is placed both on concepts and application by solving real world problems. Many statistics topics are covered throughout the year. Geometry topics such as graphing, angles, right triangles, and linear equations are integrated to ease the transition to Geometry.

GEOMETRY

Grades: 9-12

Prerequisite: Algebra I

Geometry is a year study of points, lines, planes, angles, polygons, and circles by means of a variety of concepts such as ration and proportion, similarity, area and volume, constructions, transformations, coordinate geometry, and proofs in two-column and paragraph form. Skill and understanding of deductive reasoning are emphasized throughout the course, and algebraic and arithmetic skills are reinforced in daily exercises. Concepts of space geometry are integrated with plane geometry throughout the current textbook.

ALGEBRA II

Grades: 10-12

Prerequisite: Geometry

Algebra II is a year study of equations and inequalities, graphing equations and inequalities, systems of equations and inequalities, matrices, polynomial expressions, radical expressions, quadratic functions, conic sections, rational expressions, exponential and logarithmic functions. Emphasis is placed on relationships between graphical and algebraic methods. It is recommended that the student have access to a graphing calculator.

PRE-CALCULUS

Grades: 11-12

Prerequisite: Algebra II

Pre-Calculus is a year study of functions and graphs; polynomial, power, rational, exponential, logistic, and logarithmic functions and their graphs, trigonometric functions including the unit circle; analytic trigonometry including using trigonometric identities to solve and simplify expressions and equations; vectors, parametric equations, and polar equations, systems of equations and matrices; and analytic geometry including conic sections and three dimensional coordinate system. Emphasis is placed on relationships between graphical, algebraic, and analytical methods. It is recommended that the student have access to a graphing calculator.

AP CALCULUS

Grades: 11-12

(Advanced Placement Calculus) Prerequisite: Precalculus

Topics follow the AP[®] Calculus AB course outline and include limits and continuity, derivatives, applications of derivatives, the definite integral, differential equations, and applications of definite integrals. Emphasis is placed on relationships between graphical, algebraic, analytical, and verbal methods and representations. Time will be spent preparing for the AP Calculus AB exam given in May. Students may receive college credit for Calculus I if a high enough score is received on the AP exam. It is recommended that the student have access to a graphing calculator.

MUSIC

JUNIOR/SENIOR HIGH SCHOOL CONCERT CHOIR

Grades: 7-12

The concert choir is made up of students in grades 7-12. Junior High and Senior High students will rehearse at different times, but will perform together. Students in this ensemble will study a wide range of musical concepts and literature in preparation for multiple performances.

HIGH SCHOOL BAND

Grades: 9-12

This course is open to 9-12 grade students and will include Marching Band (performances during 1st quarter), Concert Band (performances throughout the year), Pep Band (Performances in the winter) and the option of Jazz Band. We will work on a wide variety of musical concepts and literature while working towards our public performances. The high school concert band will perform at the IHSMA Large Group Contest in May. Other optional opportunities include various honor bands and IHSMA Solo/Ensemble Contest in April.

JUNIOR HIGH BAND

Grades: 7-8

The Junior High Band includes students in grades 7 & 8 and mirrors the activities of the High School Band. Marching Band experiences will take place in the fall with an opportunity to perform with the High School Band. We will work on a wide variety of musical concepts and literature while preparing for our public performances. Junior High Band members will have the opportunity to audition/perform in various Honor Bands throughout the year.

MUSIC THEORY

Grades: 9-12

This course is open to any student that is interested in developing a deeper understanding of musical concepts. This course is designed to develop a basic understanding of The Theory or Music Composition. Topics include but are not limited to; basic notation (pitch and rhythm), scales, key signatures, intervals, chords, non-chord tones, voice leading, ear training, music analysis, computer notation and composition. This course closely mirrors what students may encounter in a Music Fundamentals or Music Theory I course in college.

PHYSICAL EDUCATION

JUNIOR HIGH PHYSICAL EDUCATION

Grades: 7-8

Activities include team skills and games, rhythms, self-testing and agility drills.

HIGH SCHOOL PHYSICAL EDUCATION

Grades: 9-10

Activities include a variety of lifetime sports with some team games and recreational games. Emphasis is on individual improvement of skill level in these activities.

WEIGHT TRAINING AND CONDITIONING

Grade: 9-12

***1 semester course, may be taken for two semesters in a row**

This class is intended to help students develop knowledge and skills associated with using free weights, plyometric and cardiovascular stations while emphasizing safety and proper nutrition; they may include other components of health and personal exercise planning and education. Students enrolled in this class will be expected to dress out and participate each and every day during the semester and this course may be repeated an additional semester with instructors approval.

SCIENCE

7TH GRADE SCIENCE

Grades: 7

This full-year required science course is offered to seventh graders only. Topics covered will include: lab safety, handling and care of microscopes, an introduction to general life science, animals, and human biology. This course will include class discussions, lectures, labs, special projects, field trips, and films.

8TH GRADE SCIENCE

Grades: 8

This full-year required science course is offered to eighth graders only. Topics this course will cover include: study of the universe, earth's matter and origin, cause and effect of erosion, history of the earth, and the atmosphere. This course will include class discussion, lectures, labs, special projects, field trips and films.

BIOLOGY

Year-long course

Grades: 9

Biology is the study of living things. It is the fundamental course covering biochemistry, microbiology, botany, zoology and genetics. Biology is taught as a college prep course and is recommended for those students who plan to continue their education after high school. Most lessons are reinforced with lab procedures to further the study of topics presented.

HONORS BIOLOGY

Year-long course

Grades: 9

This accelerated course contains the same course content as Biology, but is designed to cover material in greater depth with an increased level of difficulty. Honors Biology is designed for college bound students preparing for a major in science, health, mathematics or related fields.

PHYSICAL SCIENCE

Year-long course

Grades: 10

The underlying theme of this course will be to bridge the gap between basic physical laws and common everyday occurrences where simple applications of these laws are taking place. Concepts to be included are measurement, motion, forces, types of energy; including chemical, nuclear, heat, light, sound, and electrical. There will be an emphasis on hands on learning and experimentation.

ADVANCED BIOLOGY

Year-long course

Grades: 11-12

Prerequisite: Biology

Advanced Biology is organized and taught similar to Biology and Honors Biology. Topics include the systems of the animal kingdom, genetics, embryology, ecology, biochemistry and botany. It is designed for college bound students who plan on majoring in science, health or related fields.

ANATOMY & PHYSIOLOGY

Year-long course

Grades: 10-12

Recommended prior to taking Health Careers Academy

This class is taken after successfully completing Biology and Advanced Biology; Anatomy and Physiology studies the human body and biological systems in more detail and descriptive manner. In order to understand the structure of the human body and its functions, students learn anatomical terminology, study cells and tissues, explore functional systems (skeletal, muscular, circulatory, respiratory, digestive, reproductive, nervous, and so), and may dissect mammals.

CHEMISTRY

Year-long course

Grades: 10-12

Prerequisite: Algebra I

This is a one year general chemistry course open to grades 10, 11, and 12. It is an investigative study of matter and its connection to practical applications. Through class work and experiments, students learn about properties of matter, states of matter, kinetic molecular theory, the periodic chart, reactions, bonding, kinetics, solutions, and acids and bases.

PHYSICS

Year-long course

Grades: 11-12

Prerequisite: Algebra I and Chemistry

This is a one year physics course with an emphasis placed on experimentation and presentation of results. Connections will be made between lab results and the physical laws. Topics covered include: motion, forces, energy, waves, and electricity.

ENVIRONMENTAL SCIENCE

1 Semester

Grades: 11-12

This course will cover the following topics: planetary motion (including Earth's), weather, minerals and plate tectonics.

EARTH SCIENCE

1 Semester

Grades: 11-12

This course will cover the following topics: sustainability, agricultural issues related to the environment, conservation, and human impacts on the environment.

AP CHEMISTRY

Year-long course

Grades: 11-12

Prerequisite: Algebra 2, Chemistry, and Physics (may be taken concurrently)

This course is designed to be the equivalent of the general chemistry course usually taken during the first college year. The course should allow students to attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. Many laboratory experiments will be required to be completed outside of the regular class time. In addition, students will probably need to spend at least five hours a week studying outside of class. Topics covered in AP Chemistry include: Atomic Structure, Chemical Bonding, Stoichiometry, Chemical Reactions, Gases, Liquids, Solids, Thermochemistry and Entropy, Solutions, Kinetics, Equilibrium, Acids and Bases, and Electrochemistry.

AP PHYSICS

Year-long course

Grades: 11-12

Prerequisite: Algebra 2 and Chemistry (physics is NOT a prerequisite)

This course is the equivalent to a first-semester college course in algebra-based physics. Some laboratory experiments will be completed outside of the regular class time. In addition, students will probably need to spend at least five hours a week studying outside of class. This course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, power; and mechanical waves and sound. It will also introduce electric circuits.

SOCIAL STUDIES

7TH GRADE SOCIAL STUDIES

Grades: 7

This course is designed to help students have a basic understanding of geography and what it is. Students will be introduced to basic geographic concepts and definitions. In addition to geography they will receive an introduction to the history of the world and a little about regional cultures. This course is divided into different units covering an introduction to geography, North America, Central America, South America, Europe, Asia, Middle East, Africa, and Australia. Students will be introduced to the information by the use of lecture, notes, vocabulary, videos, small group activities, and projects. Learning will be assessed through daily assignments, weekly map quizzes, journal writing, and tests.

8TH GRADE SOCIAL STUDIES

Grades: 8

This is the first part of the American History curriculum. Students will be introduced to American History by starting with the first people crossing the land bridge and ending with the Civil War. This class also teaches students the methods of how we study history, why we study history, and how we became the country we are today. The information will be broken down into units covering the progression of American History through the different eras of development and historic transitions. Students will be introduced to the information by the use of lecture, notes, vocabulary, videos, small group activities, and projects. Learning will be assessed through daily assignments, journal writing, and tests.

AMERICAN HISTORY

Year-long course

Grades: 9

This is the continuation of the 8th Grade American History course. Students will be introduced to modern history by beginning with Reconstruction and continuing through current times. This course is structured to be more independent and more detail oriented. Topics discussed during this class will be centered on specific eras in United States history and focus on history altering events such as the World Wars, Great Depression, Civil Rights, Vietnam, Cold War, and current issues. Students will be introduced to online journal discussions to further their understanding of issues and how to accurately convey ideas and debates. Information will be presented to students through lecture where students will become comfortable with note taking skills. Other classroom activities will include movies and movie analysis, online discussion, small group and individual projects, simulations, and open discussion. Learning will be assessed through daily assignments, projects, online discussion, and tests.

WORLD HISTORY

Year-long course

Grades: 10

This is a required course for sophomores and will explore the world through its past. The course will begin with the first evidence of mankind and progress to modern times. Strong emphasis will be placed on European and Asian history and make references to cultures in the Americas, Africa and Oceania. Individuals will study historical development of people, places, and patterns of life using historical and graphical analysis. Specifically development will include aspects of the human experiences, economics, science, religion, philosophy, politics & law, military conflict, literature & the arts. The course will raise awareness of the connections between our lives and those of our ancestors around the world. Students will uncover patterns of behavior, identify historical trends and themes, explore historical movements and concepts, and test theories. This class is structured around lecture, map diagraming, group work, open discussion, projects, primary source readings, and document based question writing. The objective of this course is to have students recognize global connections and the impact they have made on modern society.

GOVERNMENT

1 Semester

Grades: 11-12

This course, is required by seniors (*juniors pending). The purpose of the course is to prepare students to become productive and participating members of our democratic society. Students will examine the framework and function of government at the national, state, and local levels. Topics covered will include the foundations of American government and the United States Constitution, the three branches of the federal government, individual rights and responsibilities, the political process, and the importance of state and local governments. Topics will be presented to students through lecture, discussion, group activities, and projects.

ECONOMICS

1 Semester

Grades: 11-12

This course, a semester in length, is an elective course** offered to juniors and seniors. The purpose of this course is to provide students with a solid understanding of economic principles, systems, and activities, in order to fully participate as a citizen in the U.S. free enterprise system. Students will examine the fundamental concepts of economics, macroeconomic theory, microeconomic theory, the global economy, and personal finance. Topics will be presented to students through lecture, discussion, group activities and simulations, and real-world applications.

WESTERN CIVILIZATIONS

1 Semester

Grades: 11-12

Western Civilization is a course that develops an understanding of the connectivity of modern western society to its historical and cultural foundations. The primary focus of this course is on Europe's development into what will be called the western world and how its foundation created our modern one. Examination will begin with Greece, then onto Rome, the Middle Ages, early and high, Renaissance, Reformation, the Age of Kings & Absolutism, the Scientific Revolution & Enlightenment and the French Revolution & Napoleon, and finally post-Napoleonic Europe. The class is structured around lecture, group work, open discussion, projects, primary source readings, and document based question writing. The objective of this course is to have students recognize that the study of Western society and culture is a living history, one that is changing but always connected to the past.

PSYCHOLOGY

1 Semester

Grades: 11-12

This course will emphasize the influences on behavior, sensation, perception, motivation, personality, and abnormal psychology. The course will focus on specific personal and/or cultural problems. Such issues as coping with stress, theory of personality, neurosis and psychosis and personal space will be discussed.

SOCIOLOGY

1 Semester

Grades: 11-12

Prerequisites: Completion of World History & 10th English with passing grades.

Sociology is the study of the development, organization, and functioning of human society. This class will begin with a focus on learning the basics of sociology, what that means for our society, and how those basics are applied. The course will then shift focus to more social issues and how they change the course of global societies. This class will be very independent based and structured as such. Students will be responsible for reading and preparing discussion daily. Most of the learning will center on projects and hands-on learning. Information/learning will be based on lecture, discussion, informative reading, research, and field trips. Assessment for this class will be daily assignments, individual and group projects, and tests.

TOPICS IN US HISOTRY RESEARCH

1 Semester

Grades: 11-12

Students taking this class will be provided with a lens through which to look at history. The lens will provide a theme for the semester long class in which the student will select a specific topic in history to explore more in depth. This theme provides the framework for students to begin a historical research project of their own choosing. The student may pick anything from history to research (local, national, or world history) as long as it fits within the scope of the theme. While conducting research students will analyze historical context, historical significance, and relationships. All of this will be done while using libraries, archives, museums, oral interviews, etc. The culmination of the semester long research will be the expression of information in one of the following final projects: documentary, visual exhibit, research paper, dramatic performance, or a website.

WORKPLACE EXPERIENCE

WORK PLACE EXPERIENCE

Grades: 11-12

Instructor Approval Needed!

This elective is available for students with IEP's only. Students will develop the skills needed to get and maintain a job. Under the supervision of an adult, students will be assigned a variety of tasks at local businesses. A grading rubric will be developed for each individual based on jobs and student need.

OFF-CAMPUS ACADEMY COURSES (KIRKWOOD) HEALTH OCCUPATIONS

HEALTH CAREERS

Grades: 11-12

4 Iowa Valley Credits

12 Kirkwood Credits

High school Health Careers class will meet the first two periods of the day all school year at IV Elementary. During the second semester, students will give patient care in a clinic setting two days a week. This class will meet earlier than first hour but not before 8:00 a.m.

Class content will consist of exploring health careers and introduction to the health care system. This course will also explore health careers through course work, field trips, guest speakers and job shadows. Measuring vital signs, nursing assistant skills, basic anatomy and physiology of the body and muscular system, basic skills of a health care giver, and patient care in a clinical setting are major topics covered. This class includes college level course work with grades and attendance submitted to the high school. This is an opportunity to earn college credit in a Kirkwood health science program for this course.

All students must have a current physical and immunization record on file with the Kirkwood campus nurse prior to September 1. The Hepatitis B vaccinations are a requirement of this class. Students must get these on their own and they should start the series by July 1. Students are responsible for payment.

EMERGENCY MEDICAL TECHNICIAN (EMT)

Grades: 12

3 Iowa Valley Credits

8 Kirkwood Credits

***Student must be 17 on first day of class and 18 to take state and national certification test!**

This course develops knowledge and skills in providing basic life support management of medical and traumatic emergencies. It focuses on patient assessment and history taking and management of cardiopulmonary, medical, behavioral and environmental emergencies, childbirth and pediatrics.

ACADEMY COURSES (KIRKWOOD)

PRE-ENGINEERING

PROJECT LEAD THE WAY

Grades: 11-12

4 Iowa Valley Credits

Students at Iowa Valley enroll in both Introduction to Engineering (IED) and Principles of Engineering (POE) over the course of 2 semesters. This class is located in Williamsburg. IED uses a design development process while enriching problem-solving skills allowing students to create and analyze models using specialized computer software. POE explores technology systems and manufacturing processes and addresses the social and political consequences of technological change.

BIOTECHNICAL ENGINEERING

Grades: 11-12

Class is offered at Kirkwood in Williamsburg.

***Student must be 17 on first day of class and 18 to take state and national certification test!**

This course is designed to use relevant projects from the diverse fields of bio-technology, bio-engineering, biomedical engineering, bio-molecular engineering enable students to apply and concurrently develop secondary-level knowledge and skills in biology, physics, technology, and mathematics.

ARCHITECTURAL PLANS AND SPECS

Grades: 11-12

Class is offered at Kirkwood in Williamsburg

This course is offered at English Valley and introduces the skills and methods for understanding and interpreting construction drawings and technical specifications for residential and commercial buildings.

FUNDAMENTALS OF WELDING

Grades: 11-12

This course is offered at Williamsburg and covers basic welding techniques with oxyacetylene and electric welders. Designed for the general tradesperson working the areas of mechanics and automotive technology. Students are introduced to a variety of welding situations including cutting, brazing and various welding positions on lighter gauges of metal and basic fabrication.

ARCHITECTURE AND CONSTRUCTION TRADES

Grades: 12

Class is offered at Kirkwood in Williamsburg.

This course is offered at English Valley and is a practical study of building concepts with the main purpose to acquaint students with building terms and techniques used in the residential construction industry. Students interested in construction, engineering, or business careers are encouraged to enroll. Students will experience all phases of construction from footings to finishing carpentry. The course includes foundation, framing, plumbing, electricity, siding, roofing, and finishing carpentry. The students will use textbook, classroom instruction, and practical experience to learn construction techniques.

Students are required to supply their own hammer, tape measure, square, utility knife, nail set, pencil, safety glasses, suitable shoes and construction apron.

INTRODUCTION TO BUSINESS APPLICATIONS

Grades: 11-12

Extends students' basic knowledge of Microsoft Office applications including Word, Access, Excel and PowerPoint. Students will use practical problems to illustrate business applications.

HOW COLLEGE WORKS

Grades: 12

How College Works explores students' individual strengths, and life and vocational goals, as they identify a college program or major. Emphasizes using self-assessments to identify appropriate career areas, understanding the differences between high school and college expectations, taking and using placement tests for college admission, conducting college search and application, working through the FAFSA process, and managing personal finances to afford a college education. Provides an understanding of the career development process, and assists students in making satisfactory career choices. Includes self-assessment, career information research, decision-making, and job search strategies. Examines college study skills, including goal setting, time management, note taking and test taking strategies. Highlights aspects of personal responsibility such as self-advocacy, communicating with professors, social media awareness, physical and mental wellness, gender violence prevention, leadership and student involvement.