

Greene County Course Description 2017-2018

Notice of Nondiscrimination

Students, parents, employees and others doing business with or performing services for the Greene County Community School District are hereby notified that this school district does not discriminate on the basis of race, color, national origin, religion, sex, disability, marital status, sexual orientation, gender identity, creed, or socioeconomic status in admission or access to, or treatment in, its programs and activities. The school district does not discriminate on the basis of race, color, national origin, religion, sex, disability, marital status, sexual orientation, gender identity, age, or creed in admission or access to, or treatment in, its hiring and employment practices. Any person having inquiries concerning the school district's compliance with the regulations implementing Title VI, Title VII, Title IX, the Americans with Disabilities Act (ADA), § 504 or Iowa Code § 280.3 is directed to contact:

Director of Teaching & Learning
204 West Madison
Jefferson, IA 50129
515-738-5721 ext. 203

who has been designated by the school district to coordinate the school district's efforts to comply with the regulations implementing Title VI, Title VII, Title IX, the ADA, § 504 and Iowa Code 280.3 (2005).

Harassment and Bullying

The Greene County Schools prohibits harassment and bullying of or by students, staff, and volunteers which is based on actual or perceived age, color, creed, national origin, race, religion, marital status, sex, sexual orientation, gender identity, physical attributes, physical or mental ability or disability, ancestry, political party preference, political belief, socioeconomic status, familial status and which creates an objectively hostile school environment.

GRADUATION REQUIREMENTS

Requirements for a regular diploma from Greene County High School includes a minimum of 58 credits. Of this 30 credits are from required classes and 28 credits are elective credits. A credit is defined as any course successfully passed each trimester, with the exception of PE. Each trimester PE is successfully passed is worth 0.5 credits. Starting with the class of 2018 there will be the option of the Honors Diploma which is 66 credits. Required classes include:

REGULAR DIPLOMA: 58 Credits

8 Credits of English
6 Credits of Math
6 Credits of Science
6 Credits of Social Studies-American History, World History and American Government
1 Credit of Health
1 Credit of Financial Literacy (Personal Math or LIFE)
2 Credits of PE

HONORS DIPLOMA: 66 Credits starting with class of 2018

8 Credits of English
6 Credits of Math
6 Credits of Science
6 Credits of Social Studies-American History, World History and American Government
1 Credit of Health
1 Credit of Financial Literacy (Personal Math or LIFE)
2 Credits of PE

In addition students must meet the following requirements:

- Cumulative GPA of 3.5
- No D's or F's for any final grade
- 3 Core departments must have 8 credits instead of 6 credits
- 6 credits in a single foreign language
- 7 College or AP classes, three which must be from the core departments
- 12 CTE/Fine Arts credits

Agricultural Education

To be a member of the FFA, students must enroll in at least one trimester course of agriculture education class each year. Students may enroll in agriculture classes and not be an FFA member. Students enrolling in college credit classes must meet the college's admission requirements.

Animal Science A and B, Agronomy A and B, Conservation/Natural Resources, and Horticulture, may be used to meet the Greene County High School science requirements for graduation. Only one science credit may be earned from the Agriculture Education Department. Colleges will not recognize science credit earned through this department.

INTRODUCTION TO AGRICULTURE (900)

Elective

Open to students in grades 9, 10, 11, 12

This course provides instruction in the foundations of the various segments of the agricultural industry. Agricultural career opportunities will be emphasized. Animal science, plant and land science, and agricultural mechanics skills will be the focus of the curriculum. The selection and planning of a supervised agricultural experience program and related record keeping will be presented. Leadership development will be provided through FFA. Students will receive personal guidance and counseling with preparatory instructional program selection.

ANIMAL SCIENCE A (9011)

ANIMAL SCIENCE B (9012)

Elective

Open to students in grades 9, 10, 11, 12

2 trimesters in length total

Both Animal Science A and Animal Science B must be taken to earn one science credit if the class is being used as a science credit.

This course is open to all students who are genuinely interested in agriculture. Along with classroom study, the students will be introduced to the FFA organization and supervised agricultural experience (SAE) program. Some FFA activities include creed speaking, parliamentary procedure, livestock judging and other state contests centered around students' interests. SAE projects will have an emphasis on record keeping. Classroom study will include units in areas of swine, sheep, beef, chicken, and horse production. Students who are FFA members are encouraged to participate in FFA contests to broaden the student's interest areas.

AGRONOMY A (9021)

AGRONOMY B (9022)

Elective

Open to students in grades 10, 11, 12

2 trimesters in length total – Trimester 1 and 3

Offered 2016-2017

Agronomy A **MUST** be taken before Agronomy B

Both Agronomy A and Agronomy B must be taken to earn one science credit for the class is being used as a science credit.

Students enrolling in this course need to have a supervised agricultural experience (SAE) program. Students will be studying weed identification and control, soils and soil fertility, corn, soybean, small grain, and forage production. A small unit of study will cover ag salesmanship and job interviewing. Economics of production farming will be covered over each crop area. Students who are FFA members are encouraged to participate in FFA contests to broaden the student's interest areas.

CONSERVATION AND NATURAL RESOURCES (9031)

Elective

Open to students in grades 9, 10, 11, 12

1 trimester in length-1st or 3rd trimester

This course is designed to study the relationships of organisms and the environment in which they live. Students enrolled in this course should have a strong desire to work in and around nature. The course will include units in forestry, hunting and trapping, soil conservation, and environmental issues. A taxidermy unit over fish will be done at the end of the course.

HORTICULTURE (905)

Elective

Open to students in grades 9, 10, 11, 12

1 trimester in length – offered 2nd or 3rd trimesters only

This course is a study of the growth and development of various types of plants. Students will receive practical experience in growing plants in a greenhouse environment. The class will raise poinsettias and have a propagation unit with many different flowers. Units over green-house management, lawn and turf grass management, hydroponics, and landscaping will be covered as small units of study. A landscaping software program will be introduced which will extend the landscaping unit.

ADVANCED HORTICULTURE (909)

Elective

Open to students in grades 10, 11, 12

1 trimester in length – offered 2nd or 3rd trimesters only

This course focuses on a more in depth look at growth and development of various types of plants. Students will be involved in various projects relating to the horticulture industry and plant science testing. Topics covered include: propagation, hydroponics, floriculture, landscape design, and how technology plays a role in all of these. The class will raise plants for our annual plant sale as well as learn about landscape design and floriculture. This course is based 75% of the time in the greenhouse and 25% of the time doing research about projects.

AQUACULTURE (9041)

Elective

Open to students in grades 9, 10, 11, 12

1 trimester in length

Students are given a hands-on-approach to raising Tilapia fish. Students will demonstrate water quality laboratories, determine fish nutrition, evaluate different aquatic equipment and structures, review careers in aquaculture, and construct a marketing plan for a production enterprise. Hydroponics will also be a short unit of study.

AG. BUSINESS FARM MANAGEMENT (9051)

Elective

Open to students in grades 10, 11, 12

1 trimester in length

This course is a study of the agricultural business industry and how it directly relates to agricultural enterprises such as farming. The students will have their own enterprise which they will keep track of and grow throughout the trimester learning when and how to market their products as well as what affects the markets. Students will gain an understanding of past American market events in history and apply those concepts to predict the future of American agriculture.

SURVEY OF THE ANIMAL INDUSTRY (AGS-113)

Elective – Early Bird (concurrent credit with Iowa Central Community College)

Prerequisite: Animal Science A or B

Open to students in grades 11, 12

1 trimester in length

Students enroll in this course under the Post Secondary Enrollment Options Act (Early Bird). The class will fulfill the Iowa Central Introduction to Survey of the Animal Industry (AGS-113) requirements. Students who successfully complete the class will receive one high school credit and three semester hours of college credit through Iowa Central.

The course explores issues impacting the United States and the international animal industry. The main emphasis of the course is on different breeds, basic management, and marketing of farm animals. The animals include beef and dairy cattle, companion animals, horses, poultry, sheep, swine, and their products.

PRINCIPLES OF CROP PRODUCTION (AGA-852)

Elective – Early Bird (concurrent credit with Iowa Central Community College)

Prerequisite: Agronomy A and B

Open to students in grades 11, 12

1 trimester in length – 1st or 3rd trimester

Students enroll in this course under the Post Secondary Enrollment Options Act (Early Bird). The class will fulfill the Iowa Central Introduction to Principles of Crop Production (AGA-852) requirements. Students who successfully complete the class will receive one high school credit and three semester hours of college credit through Iowa Central.

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.

Art Education

INTRODUCTORY ART (2011)

Elective

Open to students in grades 9, 10, 11, 12

1 trimester in length – 1st or 3rd trimester

This is a studio course designed to teach the skills necessary for students to appreciate and make art. Students will explore a variety of materials and techniques. Composition, creative thinking, problem solving, and a cultural and historical understanding of art will be explored in this class. **This class will be competency based. Students must successfully master the competencies in order to complete the course. When the competencies have been met, the student may enroll in another art class with instructor guidance.**

2-D MIXED MEDIA (2015)

Elective

Prerequisite: Introductory Art or instructor approval

Open to students in grades 9, 10, 11, 12

1 trimester in length

This class will study approaches in art using a variety of media including installation, mixed media, and print making. Students will be expected to research current trends, participate in individual and group projects, and contribute to class discussions. Drawing and painting background strongly advised but not required.

ADVANCED 2-D MIXED MEDIA (2016)

Elective

Prerequisite: New Media

Open to students in grades 10, 11, 12

1 trimester in length

This class will be an extension of the New Media class. Students will be expected to participate in group and class projects as well as research contemporary artists and develop independent projects.

DIGITAL PHOTOGRAPHY AND GRAPHIC DESIGN (205)

Elective

Prerequisite: Intro to Art

Open to students in grades 9, 10, 11, 12

Freshmen may take the class if they have completed Introductory Art or are currently enrolled in Introductory Art. Students in grades 10-12 may take the course even if they haven't had Introductory Art.

1 trimester in length

This class will expose students to the concepts of designing works of art to communicate information. Students will study basic compositional rules of design and effective ways to communicate ideas through images. A variety of techniques will be used to produce art works including use of the computer and digital camera. The practical application of art will be stressed in this course.

ADVANCED PHOTOGRAPHY AND DESIGN (216)

Elective

Prerequisite: Graphic Design-Photography with a "B" or above and instructor approval

Open to students in grades 10, 11, 12.

1 trimester in length

This course will expand upon the skills learned in the Graphic Design-Photography class. Students will complete projects that emphasize typography, product identity, layout design, and graphic design trends. Students will be working with digital and traditional black and white photography using a variety of subjects and methods. In this course, students will study historically recognized photographers as well as traditional and contemporary approaches to subject matter. Students must have strong organizational and motivational skills.

DRAWING (2041)

Elective

Prerequisite: Introductory Art (may be taken at the same time as Introductory Art) or instructor approval

Open to students in grades 9, 10, 11, 12

1 trimester in length

In this course, students will work towards developing the skills and techniques necessary to successfully use a variety of black and white and color drawing media. Emphasis on creating a personal style and expressing ideas through drawing will be stressed.

ADVANCED DRAWING (2043)

Elective

Prerequisite: Drawing

Open to students in grades 9, 10, 11, 12

1 trimester in length

This is an extension of Drawing 1. Students will be expected to show their ability to handle a variety of black and white and color media and to develop a personal style that is expressive, creative and uses original ideas.

PAINTING (2051)

Elective

Prerequisite: Introductory Art (may be taken at the same time as Introductory Art) or instructor approval

Open to students in grades 9, 10, 11, 12

1 trimester in length

This course will involve a variety of painting styles and techniques. Students will use watercolor and acrylic paints to communicate ideas and explore issues. Although this is primarily a studio course, there will be an emphasis on art history and the role of painters and artists throughout time.

ADVANCED PAINTING (2053)

Elective

Prerequisite: Painting

Open to students in grades 9, 10, 11, 12

1 trimester in length

This is an extension of Painting 1. Students will be expected to show their ability to handle a variety of painting media and to develop a personal style that is expressive, creative, and uses original ideas.

CERAMICS (2061)

Elective

Prerequisite: Introductory Art (may be taken at the same time as Introductory Art) or instructor approval

Open to students in grades 9, 10, 11, 12

1 trimester in length – 1st trimester

This class will include wheel-thrown and hand-built methods in clay. Emphasis for this course will be on producing works that are functional, but students will do some sculptural pieces also. Students will study basic clay vocabulary, construction, glazing and firing techniques. Students will work towards creating a personal style in their work.

ADVANCED CERAMICS (2063)

Elective

Prerequisite: Ceramics

Open to students in grades 10, 11, 12

1 trimester in length – 1st trimester

This is an extension of Ceramics 1. Students will be expected to show their ability to handle a variety of hand-built and wheel-thrown techniques. Emphasis will be on developing a personal style that is expressive, creative and uses original ideas.

VIDEO PRODUCTION (425)

Elective

Open to students in grades 9, 10, 11, 12

1 trimester in length

This class will explore traditional animation and digital video film-making. Students will work in groups and individually to develop story lines and produce short video and animation projects. Students will produce news and informational videos for GCTV.

ADVANCED VIDEO PRODUCTION (426)

Elective

Prerequisite: Video Production and instructor approval

Open to students in grades 10, 11, 12

1 trimester in length

This class is for students who have taken the Video Production class and are interested in pursuing additional projects. Each student will work with the instructor to develop a course of study.

ADVANCED INDEPENDENT ART STUDIES (208)

Elective

Prerequisite: Introductory Art, Drawing, and two additional trimesters of art and instructor approval

Open to students in grades 11, 12

1 trimester in length. This class may be taken multiple times

Advanced Art is a structured class designed for students who are serious about art and have a good art background. Assignments are designed to encourage students to explore personal issues as well as the issues that face today's artist. Students will be expected to develop a personal approach to all assignments and make appropriate media choices for their work. Advanced Art students will be expected to maintain a sketch book that documents idea development, to select and research historical artists whose works serve as inspiration to them, and to participate in class discussions on relevant art topics.

Students will develop a portfolio of work and students in their second trimester of Advanced Art will be expected to display work in an art show or individual display.

Business Education

Students enrolled in concurrent college credit business education classes are required to participate in the Iowa Central Community College business competitions. Students enrolling in college credit classes must meet the college's admission requirements.

INTRODUCTION TO BUSINESS (105)

Elective

Introduction to Business is highly recommended for students planning a career in business and for students who desire to enroll in Accounting and other business-related courses.

Open to students in grades 9, 10, 11, 12

1 trimester in length – offered trimester 1 or 2

Introduction to Business will introduce you to the world of business and help prepare you for the economic roles of consumer, worker, and citizen. This course will also serve as a background for other business courses you may take in high school and in college, assist you with consumer decision-making, prepare you for future employment, and help you effectively perform your responsibilities as a citizen.

A textbook Introduction to Business will serve as a basis of study for this class along with group activities, projects, classroom participation, and computer use. Students will enhance their computer skills while using Power Point, Internet, Microsoft Office 2010 (word processing, spreadsheets), and Microsoft Publishing.

ENTREPRENEURSHIP (114)

Elective

Prerequisite: Introduction to Business

Open to students in grades 9, 10, 11, 12

1 trimester in length – offered trimester 3

Seven out of ten high school students want to start their own businesses, according to a Gallup poll on entrepreneurship education.

Entrepreneurship education will prepare students to carry out the entrepreneurial process and experience the entrepreneurial spirit. Students will develop an innovative idea and write a business plan.

Students will also study production, marketing, finance, human resources, global competition and legal issues. Web page design, spreadsheets, and various other computer activities will be integrated into this course.

Entrepreneurship education will provide students with a flexible background that will enable them to make required career shifts and meet the demands of a constantly changing marketplace.

TECHNOLOGY APPLICATIONS I (1021)

Take during the freshman or sophomore year if possible

Open to students in grades 9, 10, 11, 12

1 trimester in length

This course is designed to meet the technology goals in the areas of communication, information processing, and productivity for high school students. Upon completion of the course, students will be able to use technology to enhance their understanding of basic skills; communicate through application software; communicate visually, graphically, and artistically through multimedia and computer-assisted design tools; access and retrieve electronic information through networks and telecommunications. Students will work on I Have A Plan.

Specific units of study will include:

Microsoft Office 2010

Word: advanced word processing

Access: database

Excel: spreadsheet

PowerPoint presentation

Internet

TECHNOLOGY APPLICATIONS II (1031)

Elective

Prerequisite: Technology Applications I

Open to students in grades 9, 10, 11, 12

1 trimester in length – offered third trimester

This course is designed to further master our understanding and knowledge relating to our technology goals in the areas of communication, information processing, and productivity. Students will build on what they have learned in Technology Applications I by solving more difficult problems and expanding on what they have already learned. The different programs will be integrated to design projects, make presentations, and explore. Real-world projects are part of the curriculum.

FUNDAMENTALS OF ACCOUNTING (107)

Elective

Open to students in grades 9, 10, 11, 12

1 trimester in length

This course is designed to introduce the accounting process to students. Students who have an interest in a business or an accounting career are strongly recommended to take this class. Practicing with, and using a ten-key calculator will be a part of this class.

CAREERS (109)

Elective

Open to students in grades 9, 10, 11, 12

1 trimester in length

In this class, topics will include speakers, exploring careers, learning about soft skills, job shadowing, updating portfolios, workforce development, job applications, cover letters, mock job interviews, follow-up letters, school-to-work, completing W-2's and W-4's and using the Choices I Have A Plan program to categorize careers by type. Students will investigate possible careers while matching individual strengths to occupational demands by referring to the *Occupational Outlook Handbook*.

ADVANCED CAREERS (110)

Elective

Prerequisite: Careers

Open to students in grades 10, 11, 12

1 trimester in length, 3rd trimester only

This course will be divided up into thirds and will be on a rotation. For twenty days, you will have an internship at a place of business to learn about a career. This will be one to two different businesses depending on the availability of businesses. For another twenty days, students will focus on the job interviewing process including interviewing with two to three employers in town. For the third twenty days, students will look at the job skills necessary to be successful in today's job market. This will include soft skills and learning professional manners. Students must provide their own transportation for their internship and job interviews.

ADVERTISING (421)

Elective

Prerequisite: Introduction to Business

Open to students in grades 9, 10, 11, 12

1 trimester in length

Learn how to create brochures, radio ads, video ads, and critique and make commercials. This course teaches planning and organization to complete the projects. Each student will create three or four commercials during the trimester.

DESKTOP PUBLISHING (121)

Elective

Open to students in grades 9, 10, 11, 12

1 trimester in length

This Desktop Publishing course is designed to teach the basics of layout and design of letterheads, pamphlets, business cards, signs, brochures, etc. This course will use Microsoft *Word* and *Publisher* to design and build various projects. Students will be expected to not only complete the assignments from the textbook, but also to design and build their own projects (in place of paper and pencil testing). Good attendance is crucial for the students to complete the projects and assignments on time. A syllabus with the assignments will be handed out at the beginning of the class and posted in the classroom.

MOC EMPLOYER EVAL (1061) (add 1063 if two class periods)

Elective

Open to students in grade 12

Pre-requisite: Professional Development (ADM258) or Personal Development (ADM254)

1-3 trimesters in length

This is a cooperative program in which the school joins forces with local businesses to provide vocational training. Students who participate will attend classes at the high school and must be employed for a minimum of 15 hours per week. This class provides the student the opportunity to make practical application of knowledge and skills learned in school and it enables the student to see more purpose in work completed. The class also helps to make an easier transition from the classroom to full-time employment. This class may be blocked for a maximum of two periods a day; however, students will only receive one credit for the class. **Students must be gainfully employed the full trimester in order to pass the class.**

INTRODUCTION TO ACCOUNTING (ACC-111)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Recommend Introduction to Business or Fundamentals of Accounting with a C grade

Open to grades 11, 12

1 trimester in length – offered 1st and 2nd trimester

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird). This class will fulfill the Iowa Central Introduction to Accounting (ACC-111) requirements. Students who successfully complete the class will receive one high school credit and three semester hours of college credit through Iowa Central.

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

COMPUTER ACCOUNTING (ACC-311)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Prerequisite - Introduction to Accounting with at least a C grade

Open to students in grades 11, 12

1 trimester in length - offered 2nd and 3rd trimester

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird). This class will fulfill the Iowa Central Computer Accounting (ACC-311) requirements. Students who successfully complete the class will receive one high school credit and three semester hours of college credit through Iowa Central.

The course is an accelerated course designed to provide the student experience in handling automated accounting in a number of areas. These include general ledger, accounts receivable, accounts payable, payroll, depreciation, inventory and accounting statement analysis. Simulation of business and its activities are processed through the entire accounting cycle culminating in the various accounting reports. The applications will be done on a computer.

BASIC WORD PROCESSING (BCA-122) **and** **BASIC SPREADSHEETS** (BCA-146)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Prerequisite - Technology Applications I

Open to students in grades 11, 12

1 trimester in length

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird). This class will fulfill the Iowa Central Basic Word Processing (BCA-122) and Basic Spreadsheets (BCA-146) requirements. Students who successfully complete the class will receive one high school credit and two semester hours of college credit through Iowa Central.

Basic Word Processing - This course is an introductory word processing course. Students will learn the basic features of word that include creating, editing, and formatting documents.

Basic Spreadsheets - This course is an introductory spreadsheets course. Students will learn the basic features of excel that include creating, editing, formatting documents, and working with charts.

BASIC PRESENTATION SOFTWARE (BCA-174) **and** **BASIC DATABASES** (BCA-164)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Prerequisite - Technology Applications I

Open to students in grades 11, 12

1 trimester in length

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird). This class will fulfill the Iowa Central Basic Presentation Software (BCA-174) and Basic Databases (BCA-164) requirements. Students who successfully complete the class will receive one high school credit and two semester hours of college credit through Iowa Central.

Basic Presentation Software - This course is an introductory presentation course. Students will learn the basic features of Powerpoint that include creating, modifying and enhancing presentation.

Basic Databases - This course is an introductory database course. Students will learn the basic features of access that include opening a database, using tables and queries, using forms, and using report documents.

PROFESSIONAL DEVELOPMENT (ADM-258)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Prerequisite: Instructor Approval

Open to students in grades 12

1 trimester in length - offered 1st trimester

This class will fulfill the Iowa Central Professional Development (ADM-258) requirements. Students who successfully complete the class will receive one high school credit and one Iowa Central Community College credit.

This course is designed to provide a broad range of professional development opportunities for students. These opportunities will include, but not be limited to, areas of parliamentary procedure, meeting agendas and minutes, note taking and transcription of that note taking, resume building, interview skills, portfolio building, teamwork projects and finally career specific expectations and professionalism necessary to be successful in an Administrative Specialist career. This course will also provide opportunities for guest speakers and field trips to assist in demonstrating the importance of professional development.

PERSONAL DEVELOPMENT (ADM-260)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Prerequisite: Instructor Approval

Open to students in grades 12

1 trimester in length - offered 1st trimester

This class will fulfill the Iowa Central Personal Development (ADM-260) requirements. Students who successfully complete the class will receive one high school credit and one Iowa Central Community College credit.

This course is designed to provide a broad range of personal development opportunities for students. These opportunities will include, but not be limited to, areas of personal hygiene and the importance of nutrition and fitness, business professional dress, business etiquette, time management/organization skills, teamwork projects and professionalism necessary to be successful in an Administrative Specialist career. This course will also provide opportunities for guest speakers and field trips to assist in demonstrating the importance of professional development.

PUBLISHER (BCA-251)

Elective – Early Bird (concurrent credit with Iowa Central Community College)

Open to students in grades 11, 12

1 trimester in length

This class will fulfill the Iowa Central Publisher (BCA-251) requirements. Students who successfully complete the class will receive one high school credit and three Iowa Central Community College credits.

This course introduces students to desktop publishing by having them create newsletters, brochures, e-mail letters, business forms and tables using Microsoft Publisher 2010. Students will also learn creative ways to use color schemes, text-wrapping, clip-art and photographs throughout their projects.

BUSINESS MATH (BUS-112)

Elective – Early Bird (concurrent credit with Iowa Central Community College)

Open to students in grades 11, 12

1 trimester in length

This class will fulfill the Iowa Central Business Math (BUS-112) requirements. Students who successfully complete the class will receive one high school credit and three Iowa Central Community College credits. This class does not count as a math credit and will not be accepted as a math credit at college.

The student applies basic mathematical skills used in personal and business operations. This course includes fractions, decimals, percent, trade and cash discounts, markups, markdowns, interests, depreciation, investments, insurance, payroll and annuities. Students may receive advanced standing credit by examination.

BUSINESS COMMUNICATIONS (BUS-121)

Elective – Early Bird (concurrent credit with Iowa Central Community College)

Open to students in grades 11, 12

1 trimester in length

This class will fulfill the Iowa Central Business Communications (BUS-121) requirements. Students who successfully complete the class will receive one high school credit and three Iowa Central Community College credits. This class does not count as an English credit and will not be accepted as an English credit at college.

This course is an introductory course designed to help the student develop and refine the skills necessary to communicate effectively in a professional business environment. The focus will be on communicating clearly, concisely, considerately and correctly; both oral and in writing. You will learn to plan, compose, and evaluate business documents, including letters, memos, and business reports; to use technology to communicate including e-mail and discussion boards; and to prepare and deliver oral presentations. The course will also contain an introduction to employment communications, including resumes, application letters, and interview skills. Emphasis throughout the course will be placed on intercultural communication and the ethics of communication. Teaching/learning methods will include reading, close analysis of business and professional documents, in-class writing and oral exercises, brief lectures, formal writing assignments, group projects and examinations.

OFFICE CALCULATORS (ADM-131) AND INTRODUCTION TO KEYBOARDING (ADM-105)

Elective – Early Bird (concurrent credit with Iowa Central Community College)

Open to students in grades 11, 12

1 trimester in length - offered 1st and/or 2nd trimester

This class will fulfill the Iowa Central Office Calculators (ADM-131) requirements. Students who successfully complete the class will receive one high school credit and two Iowa Central Community College credit.

Office Calculators prepares students for mastery of both the 10-key electronic calculator and the computer keypad. Students will develop speed and accuracy and apply these skills in a variety of job simulations and applications. Students will also learn to use scanners, printers, the copy machine, fax, laminator, and binding machine.

Students in Intro to Keyboarding will learn to key alpha characters using the touch system for use on a personal level or as a basic skill. Minimum required outcomes will be 25 words a minute for three minutes and 30 words a minute for one minute.

Family and Consumer Science Education

Students enrolling in college credit classes must meet the college's admission requirements.

HUMAN AND FAMILY RELATIONS COURSES

INTRODUCTION TO CHILD DEVELOPMENT (3001)

Elective

Open to students in grades 9, 10, 11, 12

1 trimester in length; offered 1st trimester only

Students will start the course with the decision to parent and then to learn about the changes that come along with parenting. After a comprehensive unit on family planning, prenatal care, pregnancy and child birth, the students will learn the needs of children and parenting skills required to meet these needs. Issues involving children, such as child abuse, children's rights, divorce, and children and family crisis will also be addressed. Students are required to complete an independent child development project.

CHILD DEVELOPMENT I A (3051)

Elective

Open to students in grades 9, 10, 11, 12

Prerequisite: Introduction to Child Development with a "C" average recommended and instructor approval
2 trimesters in length total

Child Development 1A will have hands-on learning in Little Ram Preschool, the Early Learning Center or the Elementary School. In Little Ram Preschool, they will learn what needs to be done to prepare for each activity on the schedule during preschool. They will make a portfolio of ideas specific to the lesson planning and needs of the preschool here at the high school. If they continue in Child Development, they will use the portfolio as a resource for future planning. At the ELC and elementary school, they will assist as needed with the employees and teachers there. To continue to the next level of Child Development, the student must have completed the final assignment from the previous level.

CHILD DEVELOPMENT I B (3052)

Elective

Open to students in grades 9, 10, 11, 12

Prerequisite: Introduction to Child Development with a "C" average recommended and instructor approval
2 trimesters in length total

Students will work with children ages 2-5 in a preschool setting. Students in this class will develop skills working with young children as they carry out activities and plans in the student-run preschool, at the ELC or the elementary school. Independent work will include researching information related to the development and education of children. To continue to the next level of Child Development, the student must have completed the final assignment from the previous level.

CHILD DEVELOPMENT II A (3061)

CHILD DEVELOPMENT II B (3062)

Elective

Prerequisite: Child Development I with a "C" average recommended and Instructor Approval

Open to students in grades 10, 11, 12

2 trimesters in length total

Students will work with children in an early learning setting in Little Ram Preschool, the Early Learning Center or the elementary school. Some of the independent study research topics include: Guidance vs. Discipline, Philosophy of Education, Eight Multiple Intelligences, specialized education for children with special needs, Montessori and Charter Schools, setting up a preschool, and many more topics. Students have the option to be certified in CPR. To continue to the next level of Child Development, the student must have completed the final assignment from the previous level.

CHILD DEVELOPMENT III A (3021)

CHILD DEVELOPMENT III B (3022)

Elective

Prerequisite: Child Development II with at least a "C" grade and instructor approval.

Open to students in grades 10, 11, 12

2 trimesters in length total – blocked for periods 2-3

Students will work with children in an early learning setting in Little Ram Preschool, the Early Learning Center or the elementary school, as needed. Students at this level will have a portfolio created with their resume included. They will research more topics pertinent to child development. Students who are in this class need to be independent workers, goal oriented, creative, a team worker and self starters. Students from this group and CD IVA and B will be teacher-leaders in the preschool setting and assist with the training of future students in the first levels of Child Development classes. They may block the class and be enrolled in 2nd and 3rd hours. Students have the option to be certified in CPR. To continue to the next level of Child Development, the student must have completed the final assignment from the previous level.

CHILD DEVELOPMENT IV A (3071)

CHILD DEVELOPMENT IV B (3072)

Elective

Prerequisite: Child Development II with a least a "C" grade and instructor approval

Open to students in grades 11, 12

2 trimesters in length total – blocked for periods 2-3

Students will work with children in an early learning setting in Little Ram Preschool, the Early Learning Center or the elementary school, as needed. Students at this level will have a portfolio created with their resume included. They will research more topics pertinent to child development. Students who are in this class need to be independent workers, goal oriented, creative, a team worker and self starters. Students from this group and CD IIIA and B will be teacher-leaders in the preschool setting and assist with the training of future students in the first levels of Child Development classes. Students have the option to be certified in CPR. They may block the class and be enrolled in 2nd and 3rd hours. To continue to the next level of Child Development, the student must have completed the final assignment from the previous level.

CHILD HEALTH, SAFETY AND NUTRITION (ECE133)

Elective - Early Bird (concurrent credit with Iowa Lakes Community College)

Open to students in grades 11, 12

1 trimester in length – offered trimester 2

This class will be an Edline course with instructor supervision.

This class will fulfill the Iowa Lakes Child Health, Safety and Nutrition (ECE133) requirements. Students who successfully complete the class will receive one high school credit and three Iowa Lakes Community College credits.

This course focuses on current concepts in the fields of health, safety and nutrition and their relationship to the growth and development of the young child. The course blends current theory with practical applications and assessments. It includes the influences of families and diversity on health, safety, and nutrition in early childhood settings and includes the requirements for mandatory reporting.

CHILD GROWTH AND DEVELOPMENT (ECE170)

Elective - Early Bird (concurrent credit with Iowa Lakes Community College)

Open to students in grades 11, 12

1 trimester in length – offered trimester 3

This class will be an Edline course with instructor supervision

This class will fulfill the Iowa Lakes Child Growth and Development (ECE170) requirements. Students who successfully complete the class will receive one high school credit and three Iowa Lakes Community College credits.

This course provides the study of typical and atypical physical/motor, social/emotional, intellectual/cognitive development of the child from conception through adolescence.

This course is primarily for students in the Child Care and Early Childhood Education programs. Persons employed and /or interested in the care and education of children who can utilize the course for increased knowledge may also enroll.

LIFE (308)

Elective

Open to students in grades 11, 12

1 trimester in length

Meets Financial Literacy Requirement

LIFE (Learning, Including Fundamentals for Every Day) was designed for all students just about ready to leave the halls of GCHS. Here is your chance to learn about life after high school. Course content includes: employability skills and financial skills. This course is project based. Everfi modules must be completed.

CULINARY ARTS COURSES

FOOD AND NUTRITION (3081)

Elective

Open to students in grades 9, 10, 11, 12

1 trimester in length; offered first trimester only

Preparation skills will be learned through laboratory experience for foods in each of the basic food groups. Students will also learn proper food selection and storage as well as meal planning and preparation. Units include preparation in: Soups and Sauces, Herbs and Spices, Vegetables, Fruits, Dairy Products, Eggs, and Meat. **This class will be competency based. Students must successfully master the competencies in order to complete the course. When the competencies have been met, the student may enroll in another culinary arts class.**

RAM RESTAURANT A (3092)

RAM RESTAURANT B (3093)

Elective

Prerequisite: Food and Nutrition and/or Bakery or instructor approval

Students need to spend two hours a day in the Ram Restaurant program. Must complete A and B to earn credits for the class.

Open to students in grades 9, 10, 11, 12

2 trimesters in length; offered trimesters 2 and 3. Periods need to be blocked.

Students will gain food service skills and knowledge by operating a restaurant in the foods classroom. The Ram Restaurant will operate three days per week serving customers from the community and the school. Students will rotate through various work stations and jobs. Classroom instruction will include quantity food preparation, operation of equipment, sanitation and safety, work simplification, employer-employee relationships, and other related topics.

ADVANCED RAM RESTAURANT A (3094)

ADVANCED RAM RESTAURANT B (3095)

Elective

Prerequisite: Ram Restaurant with at least a C grade and instructor approval

Students need to spend two hours a day in the Advanced Ram Restaurant program. Must complete A and B to earn credits for the class.

Open to students in grades 10, 11, 12

2 trimesters in length total; offered trimesters 2 and 3. Periods need to be blocked.

Advanced Food Service students will be responsible for arranging menus for Ram Restaurant, planning and preparing food for the Ram Restaurant, and assisting with serving and clean-up. Students in this class must be prepared to work independently. Students will learn managerial skills.

BISTRO (3211) 1st trimester

BISTRO (3212) 2nd trimester

Elective

Prerequisite: Food and Nutrition or Bakery Business

Open to students in grades 10, 11, 12

1 trimester in length – offered trimesters 1 and 2

Students develop recipes, plan, prepare and serve homemade soups, sandwiches, pizzas, and salads in the student-operated Bistro.

BAKERY BUSINESS A (3131)

BAKERY BUSINESS B (3132)

Elective

Open to students in grades 9, 10, 11, 12

2 trimesters in length total; offered trimesters 1 and 2. Must complete A and B to earn credits for the class.

Become an expert on commercial baked products like yeast breads, pies, and pastries. After some initial baking practice, orders will be taken from the public and students for a variety of baked products. Students are also responsible for running the Ram Coffee Shop and small catering projects may also be part of this curriculum. Students will gain experience in business operation, and the class will include information on entrepreneurship and home-based business opportunities.

ADVANCED BAKERY BUSINESS A (3133)

ADVANCED BAKERY BUSINESS B (3134)

Elective

Prerequisite: Bakery Business with at least a C- grade

Open to students in grades 10, 11, 12

2 trimesters in length total; offered trimesters 1 and 2. Must complete A and B to earn credits for the class.

Students continue to develop skills in the area of baking. Advanced students will be responsible for recipe selection, as well as preparation of products in the various baking categories (yeast breads, quick breads, cakes, cookies, pastries). Students taking advanced bakery also participate in the coffee shop and bakery business.

HOSPITALITY I (3300)

Elective

Open to students in grades 9, 10, 11, 12

1 trimesters in length total

This course provides students an introductory overview on the hospitality and tourism industry. Class includes discussions on conventions, expositions, restaurants, lodging establishments and other tourism topics such as travel and airline businesses. Students will work on hospitality skills, discuss areas of operation in hospitality industries, and develop their own plan for marketing a hospitality event.

FOOD FUNDAMENTALS A (HCM-105EB)

FOOD FUNDAMENTALS B (HCM-105EBB)

Elective - Early Bird (concurrent credit with Iowa Lakes Community College)

Prerequisite: Ram Restaurant and instructor approval

Students need to spend two hours a day in the Food Fundamentals program, preferably blocked

Open to students in grades 11, 12

2 trimesters in length total; offered trimesters 2 and 3 - periods need to be blocked. .

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird). This class will fulfill the Iowa Lakes Community College Food Fundamentals requirements. Students who successfully complete the class will receive 2 high school credits and four semester hours of college credit through Iowa Lakes. This class is designed for students who want to enter a food service field.

Reviews the skills and attitudes needed for successful employment in the food service industry.

This course and its components are the latest additions of the ManageFirst Program. ManageFirst is a college-level curriculum driven by industry research and academic experience and created by the National Restaurant Association Educational Foundation.

Course objectives are to familiarize the student with sanitation, safety precautions of personnel and equipment, purchasing, receiving, storing, menu planning, nutrition, food poisoning, food cost, general and specific principles of food production, table service, and fast food.

FOOD PRODUCTION A (HCM-141EB)

FOOD PRODUCTION B (HCM-141EBB)

Elective - Early Bird (concurrent credit with Iowa Lakes Community College)

Prerequisite: Ram Restaurant and instructor approval

Mandatory after school time at instructor discretion (catering)

Open to students in grades 11, 12

2 trimesters in length total; offered trimesters 1 and 2

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird). This class will fulfill the Iowa Lakes Community College Food Production requirements. Students who successfully complete the class will receive 2 high school credits and five semester hours of college credit through Iowa Lakes. This class is designed for students who want to enter a food service field.

Review the food production skills and attitudes needed for successful employment in the food service industry. This course and its components are the latest additions of the ManageFirst Program.

ManageFirst is a college-level curriculum driven by industry research and academic experience and created by the National Restaurant Association Educational Foundation.

At the completion of the course students should be able to prepare the dining room for service and serving food with aesthetic appeal. Emphasis on meat, vegetable, and dessert cookery; sanitation, quality and cost of foods served to consumers are stressed. Explanation of food and beverage service, planning, management, equipment, human relations, showmanship, banquets, and costing are part of the course.

TEXTILES AND DESIGN COURSES

TEXTILES AND APPAREL PRODUCTION (3311)

Formerly Fabric Fun

Elective

Open to students in grades 9, 10, 11, 12

1 trimester in length

Here's the class for anyone needing a creative, hands-on opportunity. All projects are completed in class and focus on learning new skills. Create pillows for your room, blankets for your car, hats, scarves, boxers, etc., etc., etc. Learn to operate all our electronic machines and the software that goes with them.

ADVANCED TEXTILES AND APPAREL PRODUCTION (3313:1) first time taken

ADVANCED TEXTILES AND APPAREL PRODUCTION (3313:2) second time taken

Elective

Prerequisite: Textiles and Apparel Production with at least a C- grade and Instructor Approval

Open to students in grades 9, 10, 11, 12

1 trimester in length - this class may be taken only twice.

This class will be a continuation of Textile and Apparel. All projects are completed in class and focus on your interests.

TEXTILES AND APPAREL PROMOTION (3322)

Formerly Fashion

Elective

Open to students in grades 9, 10, 11 12

1 trimester in length

This course explores the exciting world of fashion and how the apparel industries work. Students will study all aspects of the apparel scene including design principles, fashion forecasting, designer ready-to-wear, haute couture, fabrics and textiles, apparel production and sales. Careers in fashion will also be explored and will include fashion design, fashion production, fashion merchandising and other retail industry careers.

ADVANCED TEXTILES AND APPAREL PROMOTION (3324)

Former Advanced Fashion

Elective

Prerequisite: Fashion and Instructor Approval

Open to students in grades 10, 11 12

1 trimester in length

This class is a follow-up to Textiles and Apparel Promotion. Students will be working independently on projects of their choice.

INTERIOR DESIGN (3152)

Elective

Open to students in grades 9, 10, 11, 12

1 trimester in length; offered 3rd trimester only

Students will use Chief Architect to apply the elements and principles of design to create their own housing and interior designs Students will work with house and floor plans. They will also develop interior plans for wall and floor coverings, furniture and accessories.

ADVANCED INTERIOR DESIGN (3151)

Elective

Open to students in grades 10, 11, 12

Prerequisite: Interior Design with at least a C- grade and instructor approval.

1 trimester in length

This course is designed for the student who would like to continue to work with the skills learned in Interior Design using Chief Architect. The instructor will work with the student to develop the projects for the class.

Health Occupations Education

Students enrolled in concurrent college credit health occupation classes are required to participate in the Iowa Central Community College health occupation competitions. Students enrolling in college credit classes must meet the college's admission requirements.

NURSE AIDE (HSC-172EB)

Elective – Nurse Aide -Early Bird (concurrent credit with Iowa Central Community College)
Students must provide their own transportation to and from the hospital. Student must have a 3-ring binder for this class.

Open to students in grades 11, 12

Size limit to 10 students

1 trimesters in length - offered trimester 2

THIRD TRIMESTER WILL BE A 5 DAY CLINICAL ON SELECTED WEDNESDAYS AND SATURDAYS

This is a blocked class 2nd trimester for the classroom portion. Clinical is 3rd trimester for five all day sessions. This class will fulfill the Iowa Central “Nurse Aide (HSC-172) requirements and will meet at the Greene County Medical Center (GCMC). Students who successfully complete the class will receive two high school credits and two college credits through Iowa Central.

Nurse Aide provides students with a basic level of knowledge and skills to provide safe and effective patient care. This nurse aide course meets the training requirements of The Omnibus Budget Reconciliation Act of 1987 (OBRA) for aides working in nursing facilities (NF) and skilled nursing facilities (SNF). **Background checks are required prior to any nurse aide course.** Students will be trained in cardiopulmonary resuscitation (CPR) leading to a Basic Life Support Certificate.

Requirements: Current physical exam certifying health status, TB testing and immunizations (offered during class), scrubs to wear in clinical, a watch with a second hand, and white shoes. Students must complete the Iowa Central COMPASS test prior to course entry. Students must have a background check before taking the class. Cost is \$20.00.

MEDICAL TERMINOLOGY (HSC-113)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Open to students in grade 12.

This class will be taught at the high school

1 trimester in length

This class will fulfill the Iowa Central Medical Terminology (HSC-113) requirements. Students who successfully complete the class will receive one high school credit and two semester hours of college credit through Iowa Central.

The student will study the terminology of the human body systems. The emphasis will be on recognition and functional vocabulary related to medical science. Definitions, standard abbreviations, pronunciation, correct spelling will be included. Students must complete Iowa Central Community College COMPASS testing prior to course entry and meet required minimums.

Industrial Technology Education

Students enrolling in concurrent college credit industrial technology courses will be required to participate in the Iowa Central industrial technology competitions with instructor approval. Students enrolling in college credit classes must meet the college's admission requirements.

Computer Aided Drafting - students may take only two levels of CAD per year.

Computer Aided Drafting (CAD) Courses

COMPUTER AIDED DRAFTING I (401)

Elective

Open to students grades 9, 10, 11, 12

1 trimester in length

Computer Aided Drafting is a basic study of the procedures and practices used in the drafting industry. The student will learn basic commands in Computer Aided Drafting (CAD) using an industrial grade program named AutoCAD. Computer Aided Drafting I is recommended (but not required) for students who plan to take industrial technology courses. It is also highly recommended that a student take Computer Aided Drafting II to learn the advanced procedures and practices needed for a well-rounded background in the drafting industry.

COMPUTER AIDED DRAFTING 2 (403)

Elective

Prerequisite: Computer Aided Drafting I

Open to students grades 9, 10, 11, 12

1 trimester in length

Computer Aided Drafting II is a study of the specialty type procedures and practices used in the drafting industry. The student will learn advanced commands in Computer Aided Drafting (CAD) using an industrial grade program named AutoCAD and will learn advanced drafting techniques using equipment at a drafting table.

COMPUTER AIDED DRAFTING 3 (405)

Elective

Prerequisites: Computer Aided Drafting 2

Open to students grades 10, 11, 12

1 trimester in length

Computer Aided Drafting III is the study of civil engineering and residential building design. The student will learn civil engineering by completing units of study on surveying and field notes, plots and maps, contour mapping, cut and fill charts, and designing a roadway grade through a plot of land. The student will learn about what is needed in a house design and draw a house design using a computer aided drafting system.

COMPUTER AIDED DRAFTING 4 (407)

Elective

Prerequisites: Computer Aided Drafting 3

Open to students in grades 10, 11, 12

1 trimester in length

Computer Aided Drafting IV is the study of specialized areas of drafting and of types of drawings. The student will continue to learn advanced commands on the computer aided drafting system including 3-dimensional design. The student will do some advanced drawings of lessons learned in Computer Aided Drafting I and Computer Aided Drafting II. The student will learn about some special types of drawings such as spline and gear, cam and follower, springs, fasteners, and welded assembly.

COMPUTER AIDED DRAFTING 5 (409)

Elective

Prerequisite: Computer Aided Drafting 4 and Instructor Approval

Open to students in grades 11, 12

1 trimester in length

Content of this course will be determined by the specific drafting interest of the individual student. See the instructor if interested.

COMPUTER AIDED DRAFTING 6 (411)

Elective

Prerequisite: Computer Aided Drafting 5 and Instructor Approval

Open to students in grades 11, 12

1 trimester in length

Content of this course will be determined by the specific drafting needs of the individual student.

INTRODUCTION TO CAD (CAD-101)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Open to students in grades 11, 12

1 trimester in length

2700 minutes of instruction required

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird). This class will fulfill the Iowa Central Introduction to Cad (CAD-101) requirements. Students who successfully complete the class will receive one high school credit and three semester hours of college credit through Iowa Central.

The student will be introduced to the use of Computer Aided Drafting software to make drawings of various objects. Students will create and modify drawings, print hard copies, and change the drawing environment to meet task requirements.

SOLID MODELING (CAD-164)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Prerequisite: Introduction to CAD (CAD-101)

Open to students in grades 11, 12

1 trimester in length

1800 minutes of instruction required

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird). This class will fulfill the Iowa Central Solid Modeling (CAD-164) requirements. Students who successfully complete the class will receive one high school credit and two semester hours of college credit through Iowa Central.

Students will use computer-aided design software and apply principles of parametric design in planning, constructing, and documenting digital models. Students will learn techniques and functions of the software and how they are applied in the parametric design process.

Electronics Courses

BASIC ELECTRICITY (415)

Elective

Open to students in grades 9, 10 11, 12

1 trimester in length

Basic Electricity is the study of electricity and electronics. The student will become familiar with basic electronic theory and build actual electrical circuits to further the understanding of basic electrical theory. The combination of discussion and experiments means that the students will be working with their hands as well as with their minds.

DC FUNDAMENTALS (ELE-114)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Open to students in grades 11, 12

1 trimester in length

3375 minutes of instruction required

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird). This class will fulfill the Iowa Central DC Fundamentals 1 (ELE-114) requirements. Students who successfully complete the class will receive one high school credit and three semester hours of college credit through Iowa Central

This introductory course will begin with the topics of Direct Current and Alternating Current fundamentals, electrical safety, VOM meter use, oscilloscope use, scientific notation, metric prefixes, Ohm's Law to solve series circuits, parallel circuits and series-parallel circuits. Electrical Symbols and schematic diagrams along with standard electrical prints will be introduced.

Project Lead the Way Courses

Students in grades 9-12 are eligible for Project Lead the Way classes as long as they meet the Senior Year Plus Guidelines.

The suggested sequence for the Project Lead the Way Courses is Introduction to Engineering, Principles of Engineering and Digital Electronics.

INTRODUCTION TO ENGINEERING DESIGN A (EGT-400A)

INTRODUCTION TO ENGINEERING DESIGN B (EGT-400B)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Open to students in grades 11, 12

2 trimesters in length total

4320 minutes of instruction required

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird). This class will fulfill the Iowa Central Introduction to Engineering Design (EG-T400) requirements. Students who successfully complete the class will receive one high school credit and three semester hours of college credit through Iowa Central.

This course is an introduction to the elements of Engineering Design. Students will learn the history of design, design process, sketching and visualization, geometric relationships, and modeling. Elements of manufacturing production, marketing, analysis and quality control will also be studied. Students will learn presentation techniques and develop a portfolio.

PRINCIPLES OF ENGINEERING A (EGT-410A)

PRINCIPLES OF ENGINEERING B (EGT-410B)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Open to students in grades 11, 12

2 trimesters in length total

4320 minutes of instruction required

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird). This class will fulfill the Iowa Central Introduction to Principles of Engineering (EGT-410) requirements..

Students who successfully complete the class will receive one high school credit and three semester hours of college credit through Iowa Central.

This course is an introduction to the opportunities and responsibilities of Engineer. Students will Learn the fields of Engineering and explore Engineering Careers. They will complete projects from areas such as Design, Engineering Systems, Thermodynamics, Fluid Systems, Electrical and Control Systems, Strength and Properties of Materials and Production Process and Quality Control.

DIGITAL ELECTRONICS A (EGT-420A)

DIGITAL ELECTRONICS B (EGT-420B)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Prerequisite: Basic Electricity and/or DC Fundamentals

Open to students in grades 11, 12

2 trimesters in length total.

4320 minutes of instruction required

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird). This class will fulfill the Iowa Central Digital Electronics (EGT-420) requirements. Students who successfully complete the class will receive one high school credit and three semester hours of college credit through Iowa Central.

This course is an introduction to Digital Electronics. Students will learn basic lab safety, electron theory, Ohm's and Kirchoff's Laws, logic, number systems, binary addition and Boolean Expression applications. Students will design, construct, troubleshoot and evaluate design problems, and will present oral reports of their results. Students will also study PLD's, Flip-Flops, microprocessors, and shift registers and counters. This is the first course in the Project Lead The Way Curriculum.

Woods Courses

WOODS TECHNOLOGY (413)

Elective

Preference is given to students with CAD background.

Open to students in grades 10, 11, 12

1 trimester in length

Individual projects selected by the student will incorporate application of hand tools, portable tools and stationary tools used in cabinet manufacturing and the construction trades. Measuring skills, and applied math will be emphasized. Problem solving skills acquired in this class will carry over to other construction manufacturing and engineering experiences. This course will cover the applications of woods in our society, design planning, finishes and finish applications.

First time students at Greene County Community High School taking a Woods Course will be required to construct a predetermined project per plans. Each project or projects must be furniture grade quality and include: Plans, Bill of Material and a Cut List. The predetermined project is designed to enhance the student's knowledge on how to properly: design, construct, sand and apply finished to a project. Student will use this knowledge base for future projects.

*(Students who finish the project early may construct their own furniture grade project if time allows.)

ADVANCED WOODS TECHNOLOGY A (421:1) taken first time

ADVANCED WOODS TECHNOLOGY B (421:2) taken second time

Elective

Prerequisite: Woods Technology and Instructor's Approval

Open to students in grades 10, 11, 12

1 trimester in length - may be taken only twice

This course will have similar course content as Woods Technology. Students will employ more production and build their competencies to a job entry or high skill level.

BASIC WOODWORKING (CON-307)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Preference is given to students with CAD background.

Open to students in grades 11, 12

2 trimesters in length

4050 minutes of instruction required

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird). This class will fulfill the Iowa Central Basic Woods (CON-307) requirements. Students who successfully complete the class will receive one high school credit and three semester hours of college credit through Iowa Central.

The students will spend time constructing cabinets using various joint techniques. Safe tool operation and proper tool use will be emphasized. This course will give the students a basic knowledge of calculating, selecting, and using different types of cabinet material.

Construction Courses Year One

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Prerequisite: Application to the program

Recommended: At least one trimester of drafting and one trimester of woodworking

Instructor Approval is required

Open to students in grades 11, 12

3 trimesters in length total - offered periods 4-6.

Students enroll in these classes under the Post Secondary Enrollment Options Act (Early Bird). Students who successfully complete the class will receive nine high school credits. Iowa Central Community College credits may be earned through the classes listed below. Students enrolling for our construction program should work with the instructor regarding the exact ICCC class or classes to register for.

INTRODUCTION TO RESIDENTIAL CONSTRUCTION (CON-102)

Offered during trimester 1

2700 minutes of instruction required

Students will be introduced to basic residential construction history, terminology, materials and basic construction techniques. This course will cover basic information and develop manual skills needed to begin construction of a new home. This is a two credit class.

CONCRETE THEORY (CON-130)

Offered during trimester 2

900 minutes of instruction required

Understanding concrete and its relationship to residential construction will be discussed along with concrete safety and testing techniques. This is a one credit class.

SITE LAYOUT AND BLUEPRINT READING (CON-131)

Offered during trimester 3

1350 minutes of instruction required

This course will train students to interpret and use working drawings and blueprints. It includes an understanding of construction symbols and building specifications. Students will develop a site layout for various projects utilizing lasers, builder's levels, blueprints, and site plans. This is a one credit class.

Construction Courses Year Two

CONSTRUCTION TECHNOLOGY LAB A (CON-500)

CONSTRUCTION TECHNOLOGY LAB B (CON-501)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Prerequisite: Application to the program and the successful completion of the first year construction program

Instructor approval is required

Open to students in grade 12

3 trimesters in length - offered periods 4-6

3600 minutes of instruction required for each – Lab A and Lab B

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird).

Students who successfully complete the class will receive nine high school credits and four Iowa Central credits.

This course consists of construction of floors, stairs, walls, ceilings, and roof systems in a residential setting or shop location. This course will expand on Introduction to Residential Construction. Construction safety will be strongly enforced. Safety glasses are required when working on site as required by Iowa Law. Apprenticeships may be available.

Manufacturing Courses

INTRODUCTION TO MANUFACTURING (4112)

Elective

Formerly General Metals

Open to students in grade 10

1 trimester in length

This course is an introduction to the manufacturing process. The course will deal with the basic study of all areas of metal working. The student will be involved in work being done every day in industries which are concerned with metals. Units to be covered are computer operated machines, sheet metal layout and fabrication, heat treating, hand tools, drilling, tap and die work, machine lathe operation, measuring bench metal work, arc welding, and oxy-acetylene welding and cutting. Measuring and math skills will be taught.

METALLURGY AND WELDING (4132)

Elective

Prerequisite: Introduction to Manufacturing

Open to students in grade 10

1 trimester in length

This area of metal work plays a very important role in the Greene County communities as well as any community in the United States. We will study most areas of metallurgy including heat-treating metals (annealing, tempering, hardening, stress relieving, case hardening), pattern making, foundry (cast metals), and forging. Welding study and application will include oxy-acetylene welding - cutting and brazing and case hardening, arc welding - horizontal, vertical, overhead, building up, surface hardening, brazing, and MIG welding at a higher skill level.

WELDING FABRICATION (4133)

Elective

Prerequisite: **Introduction to Manufacturing or Metallurgy and Welding or Beginning Welding with a B or higher**

Open to students in grade 11, 12

1 trimester in length – offered third trimester

This course will cover aspects of measurement and geometry of circles, squares and triangles. The reading and interpretation of welding prints will be covered as students will take welding skills they have developed in previous welding courses and apply them to fabricated projects. Projects will be done individually and in small groups for both required projects and projects of student choice. CNC Plasma Table operation will be incorporated into required projects.

ADVANCED METALLURGY AND WELDING (4133)

Elective

Prerequisite: **Metallurgy and Welding, Beginning Welding, or Gas Metal Arc Welding (recommended Beg. Weld AND GMA Weld) and instructor approval. Prior metallurgy and welding classes must have been passed with at least a “B” grade.**

Open to students in grade 11, 12

1 trimester in length

Students will work on independent projects with the approval of the instructor and under the instructor’s guidance.

ADVANCED MACHINING (4311)

Elective

Prerequisite: **Shop Operations/Precision Measurement, Introduction to Lathe Operations or Introduction to Mill Operations (recommended both Lathe and Mill) and instructor approval. Prior machining classes must have been passed with at least a “B” grade.**

Open to students in grade 11, 12

1 trimester in length

Students will work on independent projects with the approval of the instructor and under the instructor’s guidance

BEGINNING WELDING (WEL-122)

Elective- Early Bird (concurrent credit with Iowa Central Community College)
Open to students in grades 11, 12

Recommend Introduction to Manufacturing and/or Shop Operations

1 trimester in length – offered trimester 1 or 2
2700 minutes of instruction required

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird).
Students who successfully complete the class will receive two high school credits and two semester hours of Beginning Welding (WEL-122) from Iowa Central.

The Beginning Welding course offers students instruction in flat and horizontal position welding. The welding process covers Shielded Metal Arc Welding, Gas Metal Arc Welding, Oxy-Acetylene cutting and welding, braze welding, plasma arc cutting, and Gas Tungsten Arc Welding.

GAS METAL ARC WELDING (WEL-181)

Elective – Early Bird (concurrent credit with Iowa Central Community College)
Open to students in grades 11, 12

1 trimester in length – offered trimester 2 or 3
2700 minutes of instruction required

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird).
Students who successfully complete the class will receive one high school credit and two semester hours of Gas Metal Arc Welding (WEL-181) from Iowa Central.

The Gas Metal Arc Welding course is designed to give students proficiency in theory and operation of gas metal arc welding equipment. Emphasis is on safety and welding in the flat or horizontal positions.

SHOP OPERATIONS (IND-127) **and** **PRECISION MEASUREMENT** (IND-126)

Elective - Early Bird (concurrent credit with Iowa Central Community College)
Open to students in grades 11, 12

Recommended for lathe and mill classes

1 trimester in length – offered during 1st trimester
Shop Operations – 1350 minutes of instruction required
Precision Measurement – 1800 minutes of instruction required

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird).
Students who successfully complete the class will receive one high school credit and one semester hour of Shop Operations (IND-127) and one semester hour of Precision Measurement (IND-126) from Iowa Central

Students will learn the basics of metal shop work. Areas of instruction will include shop safety, proper use of hand tools, maintenance of tools and equipment, and fasteners. Precision layout and welding fundamentals are taught.

Students will use machinist rules, digital micrometers, vernier, height gauges and other precision measuring instruments to directly apply mathematical skills.

INTRODUCTION TO LATHE OPERATIONS (MFG-256)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Prerequisite: Shop Operations and Precision Measurement

Open to students in grades 11, 12

1 trimester in length - offered during 2nd trimester

2700 minutes of instruction required

Student enroll in this class under the Post Secondary Enrollment Options Act (Early Bird). Students who successfully complete the class will receive one high school credit and two semester hours of Introduction to Lathe Operations (MFG-256) from Iowa Central.

This course will introduce the student to the function and application of the engine lathe.

Students will learn to use the engine lathe in turning, drilling, reaming, boring and thread cutting applications. This is a two credit class.

INTRODUCTION TO MILL OPERATIONS (MFG-266)

Elective – Early Bird (concurrent credit with Iowa Central Community College)

Prerequisite: Shop Operations and Precision Measurement

Open to students in grades 11, 12

1 trimester in length – offered during 3rd trimester

2700 minutes of instruction required

This course will introduce the student to the safe use and operation of the vertical-milling machine. Students will learn machine set up, machining of square parts, parallel machining and drilling of holes. This is a two credit class.

Automotive Technology Courses

POWER MECHANICS (4141)

Elective

Open to students in grades 10, 11, 12

1 trimester in length – offered trimester 1 or 2

This course is for students interested in learning more about the operation, care, adjustment, and repair of small power equipment. Laboratory small engines and electrical motors will be furnished for beginning lab exercises. Later in the semester individuals may bring small engines and motors from home for repair and maintenance. Basic hydraulics will also be covered.

INTRODUCTION TO TRANSPORTATION TECHNOLOGY (AUT-108) **and** INTRO TO ENGINES (AUT-164)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Prerequisite: Power Mechanics

Open to students in grades 11, 12

3 trimesters in length total

Introduction to Transportation Technology – 4050 minutes of instruction required

Intro to Engines – 4050 minutes of instruction required

Students enroll in these classes under the Post Secondary Enrollment Options Act (Early Bird). This class will fulfill the Iowa Central Introduction to Transportation Technology (AUT-108) and Automotive Engine Repair (AUT-164) requirements. Students who successfully complete the class will receive three high school credits and seven semester hours of college credit through Iowa Central.

Introduction to Transportation Technology - This introductory course provides an introduction to the many facets of the automotive industry to include: careers affecting the automotive industry,

environmental concerns affecting the automotive industry, basic automotive hand tools, specialty tools, precision measuring tools, power tools and shop equipment, using service and shop manuals and shop safety.

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

Language Arts Education

Students enrolling in college credit classes must meet the college's admission requirements.

READ 180:1 (5005) 1st time taken

READ 180:2 (5006) 2nd time taken

READ 180:3 (5007) 3rd time taken

READ 180:4 (5008) 4th time taken

READ 180:5 (5009) 5th time taken

READ 180:6 (5010) 6th time taken

Required for those not proficient in Reading on the Iowa Assessments.

Open to students in grade 9, 10, 11, 12

May be taken for up to 6 trimesters with instructor and administrator approval

READ 180 is an entry level class designed to build reading and writing skills. Students will be placed into this class based on their Iowa Assessment scores or by teacher recommendation. Future placement in English classes will be determined by ongoing assessments in the READ 180 program. Students may not exceed six trimesters of READ 180.

ENGLISH I A (516)

ENGLISH I B (517)

Required

Open to students in grade 9

2 trimesters in length total

RAI: 1 CU

English 9 covers the basics of essay writing and literature concepts in an integrated approach. The writing process will be used and a research paper completed. Short stories, novels and plays will be studied. Examples of work will be included in a writing portfolio.

HONORS ENGLISH I A (536)

HONORS ENGLISH I B (537)

Required

Prerequisite: Admission to the class is based on 8th grade English final grade, standardized testing scores, and instructor approval.

Open to students in grade 9, but limited to 20 students

2 trimesters in length total

RAI Core: 1 CU

This course follows the same curriculum as English 9 and incorporates additional enrichment activities at a more challenging pace.

ENGLISH II A (518)

ENGLISH II B (519)

Required

Prerequisite: English 9

Open to students in grade 10

2 trimesters in length total

RAI Core: 1 CU

This course will focus on reading literature and writing paragraphs and essays. Students will study Shakespeare's play Julius Caesar. In addition, students will complete a formal research paper.

HONORS ENGLISH II A (538)

HONORS ENGLISH II B (539)

Required

Prerequisite: Admission to the class is based on 9th grade English final grade, standardized testing scores and instructor approval.

Open to students in grade 10, but limited to 20 students

2 trimesters in length total

RAI Core: 1 CU

This course follows the same curriculum as English 10 and incorporates additional enrichment activities at a more challenging pace.

ENGLISH III (546)

Elective

Open to students in grade 11, 12

1 trimester in length

English III will focus on developing critical thinking and writing skills, particularly argumentative writing. This class is designed for students who need extra skill building before taking college-level courses or who do not want to pursue dual credit classes during high school.

After English II, students have the choice of taking College Prep or English III. It is recommended that students obtain a B- or higher in English II to move directly to College Prep. If they have a lower grade, it is recommended they take at least one trimester of English III.

READING SUCCESS (5011)

Elective (**Required of students not proficient in the Reading Iowa Assessments or READ 180**)

Open to students in grade 11, 12

1 trimester in length – offered 1st trimester only

This is a class that will focus on Reading Strategies. These strategies will help students in their understanding of their text books and articles read in other classes. It will help students in their study skills on how to comprehend what they are reading.

HOLLYWOOD VERSUS HISTORY (820)

Elective

Open to students in grades 11, 12. Students in grade 9, 10 must have instructor approval to join the class.

1 trimester in length

Students will explore how accurate or inaccurate film-makers are in portraying historic events. We will delve into what actually happened, how those interpretations in pop culture have changed and why, and why choices are made to alter or adapt history.

LITERATURE AND HISTORY (808)

Elective

Open to students in grades 9,10,11,12.

1 trimester in length

This course can be used as either a Social Studies elective or English credit. This class will focus on major literary themes, genres, and authors. It will include fiction of authors such as Poe, Steinbeck, Fitzgerald, and Shakespeare. Genres will include the Old West, Gothic, Mythology, and Adventure. This course will tie together major literary works with their place in time.

CREATIVE WRITING (510)

Elective

Open to students in grades 9, 10, 11, 12

1 trimester in length

RAI Core: 0.5 CU

Creative Writing provides opportunities for the student to write creative works such as short stories, personal essays, plays, and poems. Students learn to distinguish good writing from bad, to have confidence in their own abilities, and to evaluate their own writing efforts in a workshop setting.

ADVANCED CREATIVE WRITING (5110)

Elective

Prerequisite: Creative Writing

Open to students in grades 9, 10, 11, 12

1 trimester in length

A minimum of 10 students must be enrolled to offer this class

RAI Core: 0.5 CU

This class is an advanced level of creative writing. The student and instructor will collaborate on the types of writing assignments that will be done.

PUBLIC SPEAKING (511)

Required

Prerequisite for Iowa Central Community College SPC 112 Public Speaking

Open to students in grades 12

1 trimester in length

RAI Core: 0.5 CU

While reviewing basic communication skills, students will be engaged in a variety of speaking experiences. Workplace skills will be enhanced through a career exploration that includes a job shadow experience. Emphasis is placed on individual development of interpersonal communication skills. Writing skills, including outlining, will be incorporated. Students must complete all assigned speeches to pass this course.

COLLEGE-PREP ENGLISH (5121)

Elective

Prerequisite for Composition I

At least a C grade in both trimesters of sophomore English or English III and instructor approval

Open to students in grades 10, 11, 12. Sophomores would need to take College Prep during trimester 3.

Juniors and seniors may take the class any trimester.

1 trimester in length

RAI Core: 0.5 CU

This course is designed as an aid for the student who plans to go to college. The course will emphasize writing and critical reading skills. Students will review the basics of grammar, sentence and paragraph construction and organization, and self-expression in writing papers. A research paper stressing form and content will be required.

POPULAR LITERATURE (512)

Elective

Class limited to 15 students.

Open to students in grades 11, 12

1 trimester in length

RAI Core: 0.5 CU

The Popular Literature class will incorporate novels and short stories of the student's choice or from a list supplied by the instructor. In addition to reading the novels and short stories, students will also be expected to produce reflective writings about the reading. This class is designed for students planning to attend a two-year college and who need an additional English credit.

ELEMENTS OF WRITING (ENG-101)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Prerequisite: COMPASS Writing score of 38 – 64 or ACT English of 14-17 or the Accuplacer Sentence Skills of 45 - 73.

Open to students in grades 11, 12

1 trimester in length

This course will help students develop their writing and critical thinking skills in order to prepare them for ENG – 105. Elements of Writing will also provide opportunities for the improvement of oral expression and will help students learn and improve research and documentation skills with an emphasis of sentence, paragraph, and essay development. Also, covered in class are basic study and reading skills, time management techniques, job-seeking skills, and an introduction to library skills. Mandatory Placement Levels: COMPASS: 38 – 64; ACT: 14-17, ACCUPLACER Sentence Skills 45 - 73.

COMPOSITION I (ENG-105)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Prerequisite: College Prep English and appropriate COMPASS or ACCUPLACER scores

Regents Universities will accept Composition I only if Composition II is also taken.

Iowa and Iowa State also expect students to take Fundamentals of Oral Communication.

Open to students in grades 11, 12

1 trimester in length

RAI Core: 0.5 CU

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird). This class will fulfill the Iowa Central Composition 1 (ENG-105) and Composition 1 requirements. Students who successfully complete the class will receive one high school credit and three semester hours of college credit through Iowa Central.

Composition I focuses on the process of writing expressive and informative prose, incorporating oral, visual and electronic modes. It introduces research skills and critical thinking skills.

COMPOSITION II (ENG-106)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Prerequisite: Composition I

Regents Universities will accept Composition I only if Composition II is also taken.

Iowa and Iowa State also expect students to take Fundamentals of Oral Communication

Open to students in grades 11, 12

1 trimester in length

RAI Core: 0.5 CU

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird). This class will fulfill the Iowa Central Composition II (ENG-106) requirements. Students who successfully complete the class will receive one high school credit and three semester hours of college credit through Iowa Central.

This course is a continuation of ENG-105 with advanced work in research techniques. The major focus is on persuasive and argumentative writing including oral, visual and electronic modes with an emphasis on critical thinking skills.

INTRODUCTION TO LITERATURE (LIT-101)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Prerequisite: Composition I

Open to students in grades 11, 12

1 trimester in length

RAI Core: 0.5 CU

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird). This class will fulfill the Iowa Central Introduction to Literature (LIT-101) requirements. Students who successfully complete the class will receive one high school credit and three semester hours of college credit through Iowa Central.

This course includes training in understanding the forms of imaginative literature: short story, drama, poetry, and novel. Attention is given to personal and social values as they appear in selected readings.

AMERICAN LITERATURE (LIT-114)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Prerequisite: Introduction to Literature with at least a C grade

Open to students in grades 11, 12

1 trimester in length

RAI Core: 0.5 CU

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird). This class will fulfill the Iowa Central American Literature (LIT-114) requirements. Students who successfully complete the class will receive one high school credit and three semester hours of college credit through Iowa Central.

This course emphasizes the vast spectrum of authors writing in different genres by focusing on a particular theme in American Literature. An intensive study of a few authors will be used to represent the full spectrum. Students will be expected to read and respond to the literature through both discussion and written work.

Mathematics Education

Students enrolling in college credit classes must meet the college's admission requirements.

ALEKS General Math 1 (6001) 1st time taken

ALEKS General Math 2 (6002) 2nd time taken

ALEKS General Math 3 (6003) 3rd time taken

Required for those not proficient in math on the Iowa Tests

Placement by math teacher only.

ALEKS General Math is a remedial class designed to build mathematics skills. Future placement in math classes will be determined by ongoing assessments in the ALEKS General Math program.

ALGEBRA I A (6021)

ALGEBRA I B (6022)

Required

Open to students in grades 9, 10, 11, 12

2 trimesters in length total

RAI Core: 1 CU

In this course students will learn basic algebra terminology and algebra principles and use this knowledge in problem solving. Units include solving linear equations, graphing, story problems where practical applications of algebra are studied, exponents, radicals, polynomials and solving quadratic equations are studied.

GEOMETRY A (6061)

GEOMETRY B (6062)

Required

Prerequisite: Algebra I with at least a C grade

This course may be taken at the same time as Algebra II if the student received an "A" in Algebra 1A and 1B and with instructor approval

Open to students in grades 9, 10, 11, 12

2 trimesters in length total

RAI Core: 1 CU

Students will study the traditional concepts of Geometry. Skill development will emphasize conceptual understandings, multiple representations and connections. Students will use a problem-solving approach with available technology. Geometry topics include: geometric art, area, inductive reasoning, Pythagorean Theorem, definitions, recursion and iteration, construction, volume, line and angle proportion, similarity, triangle properties, trigonometry, polygon properties, deductive reasoning and proofs and circles.

MATH 11 (6071)

Elective

Prerequisites: Algebra 1, Geometry

Open to students in grades 11, 12

1 trimester in length

This course will focus on the essential elements of Algebra 1 and Geometry. Students will review and solidify their skills in each area where they are not proficient. Students can take this as a preparatory course for Algebra 2 or as an independent math course.

ALGEBRA 2 A (6031)

ALGEBRA 2 B (6032)

Elective

Prerequisite: Algebra I and Geometry with at least a C grade

This course may be taken at the same time as Geometry if the student received an "A" in Algebra IA and IB and with instructor approval.

Open to students in grades 9, 10, 11, 12

2 trimesters in length total

RAI Core: 1 CU

This course is recommended for any student planning to enter college or technical school. Students will spend time reviewing Algebra I and Geometry concepts while learning the Algebra II material. Algebra II topics covered will include linear and quadratic relations and functions, systems of equations, powers and roots, polynomials, matrices, conic sections, probability and statistics.

HONORS ALGEBRA 2 A (6063)

HONORS ALGEBRA 2 B (6064)

Elective

Prerequisite: Algebra I and Geometry with at least a B grade

Open to students in grades 9, 10, 11, 12

2 trimesters in length total

RAI Core: 1 CU

This course is recommended for any student wanting to advance their Algebra 2 skills with the intention of preparing themselves for the rigor of Pre-Calculus. Students will study the topics of Algebra 2 and trigonometry in addition to more modern strands of mathematics. Such topics include sequence and series, data analysis, functions, exponential and logarithmic functions, discrete math topics, systems of equations, polynomials, probability and statistics, relations and trigonometric functions. The content of the course is anchored in real world contexts and the use of the graphing calculator is integral to the course. More material will be covered and in greater depth than in the regular Algebra 2 course.

PRE-CALCULUS/TRIGONOMETRY A (6051)

PRE-CALCULUS/TRIGONOMETRY B (6052)

Elective

Prerequisite: Algebra II and Geometry or Teacher Recommendation at least a C grade in Algebra II and Geometry is strongly recommended.

Strongly recommended for students planning to attend Iowa State or the University of Iowa

Open to students in grades 10, 11, 12

2 trimesters in length total

RAI Core: 1 CU

This course is intended for students interested in taking engineering, physics, chemistry, mathematics, computer science, actuarial science, or statistics in college. This course is concerned with four broad topics and graphing calculators will be used to strengthen and expand these topics.

1. Functions and how they relate to each other algebraically, analytically and graphically.
2. Trigonometric functions, graphs and identities.
3. Exponential and logarithmic functions and their applications.
4. An introduction to limit theory and derivatives.

PERSONAL MATH (613)

Elective

Open to students in grades 11, 12

1 trimester in length

Meets Financial Literacy Requirement

This course will be an applied math course stressing situations encountered in real life. Topics will include taxes, budgets, banking, loans and finance, investments, insurance, credit cards and identify theft.

ADVANCED PLACEMENT CALCULUS A (6091) 1st trimester

ADVANCED PLACEMENT CALCULUS B (6092) 2nd trimester

ADVANCED PLACEMENT CALCULUS C (6093) 3rd trimester

Elective

Prerequisite: Instructor approval

Open to students in grades 11, 12

3 trimesters in length total

RAI Core: 1.5 CU

Students enrolled in Advanced Placement Calculus will take the Advanced Placement Examination as prescribed by The College Board. The student will be required to pay the fee (approximately \$85) on the day the test is administered. The test takes approximately 3 1/2 hours for administration. This test will be graded by its preparers and up to eight hours of mathematics credit can be granted. Not all universities and colleges grant credit for this course.

This course is designed to replace at least the first college Calculus course. It will be a consideration of derivatives and integrals of elementary functions and applications.

PRINCIPLES OF STATISTICS I (MAT-157)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Prerequisite: Algebra II with at least a C grade and ALEKS placement test score

Open to students in grades 11, 12

1 trimester in length

RAI Core: 0.5 CU

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird). The class will fulfill the Iowa Central Principles of Statistics (MAT-157) requirements. Students who successfully complete the class will receive one high school credit and four semester hours of college credit through Iowa Central.

Principles of Statistics I is the first course in basic probability and statistics which includes the study of frequency distributions, measures of central tendency and dispersion, elements of statistical inference, regression and correlation.

PRINCIPLES OF STATISTICS II (MAT158)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Prerequisite: Principles of Statistics

Open to students in grades 11, 12

1 trimester in length

RAI Core: 0.5 CU

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird). The class will fulfill the Iowa Central Principles of Statistics (MAT-158) requirements. Students who successfully complete the class will receive one high school credit and three semester hours of college credit through Iowa Central.

This class is the second course in the statistics sequence. It includes the study of additional topics in probability, correlation, regression and statistical inference. The course also includes the topics of chi-square procedures, analysis of variance, non-parametric methods and statistical quality control.

Music Education

CONCERT BAND A (241) 1st trimester

CONCERT BAND B (242) 2nd trimester

CONCERT BAND C (243) 3rd trimester

Elective

Open to students in grades 9, 10, 11, 12

3 trimesters in length; must be taken all three trimesters to earn credit.

Concert Band is open to any student who has experience playing in a concert band setting. This ensemble will provide students with opportunities to perform a variety of literature and will be encouraged to improve their instrumental technique, musicianship, and band ensemble skills. Students will learn music through several different ensembles. Marching band, concert band, jazz band, and pep band will offer a diverse selection of music for the student to prepare and to perform. Honor bands, solo and ensemble contest, group and individual lessons, and small groups will be offered to further the student's musical interest.

The Concert Band grade is based on daily participation, completion of music at the proficiency level, and attendance at performances.

CONCERT CHOIR A (2431) 1st trimester

CONCERT CHOIR B (2432) 2nd trimester

CONCERT CHOIR C (2433) 3rd trimester

Elective

Open to students in grades 9, 10, 11, 12

3 trimesters in length; must be taken all three trimesters to earn credit.

Concert choir is open to any student without an audition. This mixed ensemble will perform a wide range of choral literature. Students will be encouraged to improve their vocal technique, musicianship, and choral ensemble skills. Students will have the opportunity to audition for the All-State chorus, Jazz Choir, participate in a variety of honor choirs, and perform in the State Solo/Ensemble Contest. Other performance opportunities may include performing in the community for various groups and singing the National Anthem for sporting events. The choir will perform in several concerts throughout the year as well as compete in the State Large Group Contest.

The Concert Choir grade is based on daily participation, attendance at lessons, completion of music at the proficiency level, and attendance at performances.

Physical Education

New state requirements mandate that students in grades 6-12 receive 120 minutes of physical activity a week. These mandates, effective July 1, 2009, come from the 2008 Iowa Acts, Senate File 2425 sections 142 and 145.

Students will be required to take the following number of trimesters of PE:

- Freshmen must take 2 trimesters
- Sophomores must take 1 trimester
- Junior must take 1 trimester
- Seniors may waive all 3 trimesters of PE

Students may waive PE based on the following criteria.

- A. The student is participating in interscholastic athletics sponsored by the Iowa High School Athletic Association or Iowa Girls High School Athletic Union
 - Trimester 1 – football, volleyball, girls' swimming, cross country
 - Trimester 2 – basketball, wrestling, boys' swimming
 - Trimester 3 – track, golf, soccer, tennis
- B. The student is taking 6 full credit courses
- C. The parent or guardian files a written statement with the school principal that the class conflicts with the pupil's religious beliefs.
- D. The parent or guardian files a written medical excuse with the school principal. The written excuse must be provided by a reputable medical doctor and must specify the time excused from physical education. A medical excuse must be filed each trimester.

If the student is waiving PE for non-school activities, "The school or school district shall enter into a written agreement with the student. The written agreement shall state the nature of the activity, the starting and ending dates of the activity, and shall provide sufficient information about the duration of time of the activity each week. The agreement shall also be signed by the building principal or Principal's designee and by at least one parent or guardian of the student if the student is a minor. The student shall sign the agreement, regardless of the age of the student." **This agreement shall be effective for no longer than one trimester.**

PHYSICAL EDUCATION A (011-1) 1st trimester

PHYSICAL EDUCATION B (011-2) 2nd trimester

PHYSICAL EDUCATION C (011-3) 3rd trimester

Required

Open to students in grades 9, 10, 11, 12

1 - 3 trimesters in length

Students will be working out in the Multi-purpose room and/or gym, doing the "Workout of the Day (WOD)". These will be exercises that will increase muscular strength, muscular endurance, aerobic capacity, and flexibility.

- Students learn techniques to exercises that will be used in the fitness room (back squat, front squat, overhead squat, clean grip deadlift, bent over rowing , kettlebell exercises, and bench press.) Students will learn what muscular strength and endurance is, and how to improve it.
- Students will learn what aerobic capacity is, and how it can be improved.
- Students will learn what flexibility is, and how it can be improved.

- Eventually students will implement their own program they have created. Students will be expected to be evolving their program throughout the trimester.
- Students may opt to take the "Competency Performance Test". If the student can score at proficient or higher in sit-ups, push-ups sit & reach flexibility, and 1 mile can opt out of PE for the Trimester. See instructors for more details for this test.

EARLY PE A (012-1) 1st trimester

EARLY PE C (012-3) 3rd trimester

Required

NOT ALWAYS AVAILABLE

Open to students in grades 9, 10, 11, 12 Preference to students enrolled in both band and choir

This class will meet from 7:00-8:00 a.m. a minimum of two days per week.

1 – 2 trimesters in length

Students will be working out in the Multi-purpose room and/or gym, doing the “Workout of the Day (WOD)”. These will be exercises that will increase muscular strength, muscular endurance, aerobic capacity, and flexibility.

– Students learn techniques to exercises that will be used in the fitness room (back squat, front squat, overhead squat, clean grip dead-lift, bent over rowing , kettle-bell exercises, and bench press.) Students will learn what muscular strength and endurance is, and how to improve it.

– Students will learn what aerobic capacity is, and how it can be improved.

– Students will learn what flexibility is, and how it can be improved.

– Eventually students will implement their own program they have created. Students will be expected to be evolving their program throughout the trimester.

– Students may opt to take the “Competency Performance Test”. If the student can score at proficient or higher in sit-ups, push-ups sit & reach flexibility, and 1 mile can opt out of PE for the Trimester. See instructors for more details for this test.

ADVANCED STRENGTH AND CONDITIONING A (013-1) 1st trimester

ADVANCED STRENGTH AND CONDITIONING B (013-2) 2nd trimester

ADVANCED STRENGTH AND CONDITIONING C (013-3) 3rd trimester

May be taken as an option to PE

Open to students in grades 9, 10, 11, 12

By Instructor Approval only

1 - 3 trimesters in length

This is a before and after school course

This is a class meant for students that are participating in the currently implemented off season weightlifting program. The class will be strictly pass/fail. Students will be required to attend 26 sessions throughout the trimester. If a student does not meet the required days, they will not receive their credit.

Students will be doing speed and agility drills before they lift, and will be using our standard 6 week out of season cycles. **The instructor will use their own discretion in terms of allowing students to join the class.**

Science Education

PHYSICAL SCIENCE-E (7000) Earth and Physics

Required

Open to students in grade 9

1 trimester

RAI Core: 0.5 CU

Physical Science-E is an integrated science course blending Earth Science Standards with Physical Science Standards. Students will learn how forces and energy shape our solar system and the universe.

Students that earn a grade of 70% or higher at the end of the Trimester can move to the "Advanced Science Path", and it is recommended he/she take Biology A & B. Those students earning 60-69% grade at the end of the Trimester should take Life Science B next. Those students failing the Trimester will have to retake the course before moving to the next level of the Basic Science Path.

LIFE SCIENCE-E (7001) Earth and Life

Required

Open to students in grade 9

1 trimester

RAI Core: 0.5 CU

Life Science E is an integrated science course covering Climate, Weather, and Water from the Earth Science Standards and meshing this with Life Science Standards that address Ecology and Behavior. Students will learn how abiotic factors like climate and water help shape the environment in which organisms inhabit and how it may influence the organism's behavior.

Students that earn a grade of 70% or higher at the end of the Trimester can move to the "Advanced Science Path", and it is recommended he/she take Biology A & B. Those students earning 60-69% grade at the end of the Trimester should take Life Science B next. Those students failing the Trimester will have to retake the course before moving to the next level of the Basic Science Path.

PHYSICAL SCIENCE C (7071) Chemistry emphasis

Required if not taking Chemistry

Open to students in grade 9, 10, 11, 12 (2014-2015 on)

1 trimester

RAI Core: 0.5 CU

Physical Science-C is a basic course over Chemistry covering the Physical Science Standards. Subjects covered will include property and states of matter, atomic structure, bonding, chemical reaction and solutions.

Students on the Basic Science Path should take Physical Science-P, or Life Science-B next. Students may move to the Advanced Science pathway with instructor approval.

PHYSICAL SCIENCE P (7072) Physics emphasis
Required if not taking Physics
Open to students in grade 9, 10, 11, 12 (2014-2015 on)
1 trimester
RAI Core: 0.5 CU

Physical Science-P is a basic course over Physics building on but not repeating the Physical Science Standards taught in Physical Science – E. Topics will include waves, Optics, Electricity, and Magnetism.

Students on the Basic Science Path should take Physical Science-C or Life Science-B next. Students may move to the Advanced Science pathway with instructor approval

LIFE SCIENCE (7073)
Elective
Open to students in grades 9, 10, 11, 12
1 trimester in length total
RAI Core: 0.5 CU

Life Science A covers the Science Standards on the topics of the Cell, Genetics, Life History and Biodiversity. This Biology course will start with cellular structure and function and lead to how organisms pass their genetic make-up to future generations, and how genetics over time have shaped the biodiversity that exists on earth today.

Students on the Basic Science Path should take Physical Science -C, or Physical Science-P next. Students may move to the Advanced Science pathway with instructor approval.

SCIENCE SURVEY 1 (7075)
Elective
Open to students in grades 10, 11, 12
1 trimester in length
RAI Core: 0.5 CU

This earth science course will begin by studying the inside forces that create the minerals and rocks found on earth today. Then students will explore space and the connections that stars, galaxies and other solar bodies have with earth.

SCIENCE SURVEY 2 (7076)
Elective
Open to students in grades 10, 11, 12
1 trimester in length
RAI Core: 0.5 CU

This course is about the branch of science called physics. The student will explore the importance and use of energy as well as how energy changes from one form to another. Forms of energy to be studied include mechanical, thermal, light, sound, electrical, chemical and nuclear.

BIOLOGY A (7021)

Elective but must of earned a 70% grade or higher Life Science A

Open to students in grades 10,11,12

1 trimester in length

RAI Core: 0.5 CU

Biology A covers Life Science Standards addressing the cell and Biodiversity. Students will begin by studying the cell theory in Unit 1. Unit 2 will introduce the six kingdoms starting with the unicellular prokaryotes and advancing to the most complex eukaryotic multicellular organisms.

Students on the Advance Path should take Biology B before enrolling into Chemistry A. Students must earn a grade of 80% or higher in Biology A and Biology B to take Chemistry A.

BIOLOGY B (7022)

Elective but must of earned a 70% grade or higher Life Science A

Open to students in grades 10,11,12

1 trimester in length

RAI Core: 0.5 CU

Biology B covers Life Science Standards addressing Genetics and Life History. Students will begin with Mendelian Genetics and learn how they received their traits through gene expression in Unit 1. Unit 2 will focus on how the earth's environment over time has shaped genetics leading to the six kingdoms we have today.

Students on the Advance Path should take Biology A before enrolling into Chemistry A. Students must earn a grade of 80% or higher in Biology A and Biology B to take Chemistry A.

CHEMISTRY A (7041)

Elective

Elective

Prerequisite: Students must have passed Biology with at least a "B" grade both trimesters, or instructor approval.

Open to students in grades 11, 12

One trimester in length

RAI Core: 0.5 CU

Chemistry is a science dealing with the composition of materials and the changes in composition these materials undergo. The first trimester includes a study of small-scale laboratory procedures and the mathematical tools essential to Chemistry. Atomic structure, classification of matter, periodicity and bonding are studied. During the second trimester, laboratory work is an integral part of the course permitting chemical principles to be drawn directly from the student's experiences. Concepts considered include (1) energy, (2) rate of reaction, and (3) chemical equilibrium.

Students on the Advance Path should take Chemistry B next.

CHEMISTRY B (7042)

Elective

Prerequisite: Students must have passed Biology with at least a "B" grade both trimesters, or instructor approval.

Open to students in grades 11, 12

One trimesters in length total

RAI Core: 0.5 CU

Chemistry is a science dealing with the composition of materials and the changes in composition these materials undergo. The first trimester includes a study of small-scale laboratory procedures and the mathematical tools essential to Chemistry. Atomic structure, classification of matter, periodicity and bonding are studied. During the second trimester, laboratory work is an integral part of the course permitting chemical principles to be drawn directly from the student's experiences. Concepts considered include (1) energy, (2) rate of reaction, and (3) chemical equilibrium.

Students on the Advance Path should take Physics A & B, or Physical Science-P

PHYSICS A (7051)

Elective

Prerequisite: Algebra 2 and Biology with at least a "B" grade both trimesters and instructor approval

Open to students in grades 11, 12

One trimester in length total

RAI Core: 0.5 CU

Physics is designed to provide a background essential to the study of physics on the college level. Concepts studied include the SI system of measurement, the study of motion, and the study of the forces which cause motion. A non-Calculus approach to the mathematics of Physics is strongly pursued.

Students on the Advance path should take Physics B next.

PHYSICS B (7052)

Elective

Prerequisite: Algebra 2 and Biology with at least a "B" grade both trimesters and instructor approval

Open to students in grades 11, 12

One trimester in length total

RAI Core: 0.5 CU

During the second trimester, one or more of the following are studied: wave motion, light and optics, electricity and/or nuclear physics. Application of laws that govern and explain physical phenomena are also studied during the second trimester.

Students on the Advance path should make sure they have taken Chemistry A & B, or Physical Science-C.

ANATOMY AND PHYSIOLOGY A (7031)

Elective

Prerequisite: Biology with at least a "B" grade

Open to students in grades 11, 12

One trimester in length total

RAI Core: 0.5 CU

Physiology is concerned with how an organism functions. Human Physiology probes all of the chemical and physical mechanisms that are characteristic of living matter within the human body. Not only is it concerned with what happens but also with how and why it happens. To completely understand how an organism functions, the structure must also be considered, making anatomy an integral part of physiology. The course covers all major body systems, tying them together to enable the student to appreciate how the body works. This course could be of special value to those interested in the biomedical fields.

ANATOMY AND PHYSIOLOGY B (7032)

Elective

Prerequisite: Biology with at least a "B" grade

Open to students in grades 11, 12

One trimester in length total

RAI Core: 0.5 CU

Physiology is concerned with how an organism functions. Human Physiology probes all of the chemical and physical mechanisms that are characteristic of living matter within the human body. Not only is it concerned with what happens but also with how and why it happens. To completely understand how an organism functions, the structure must also be considered, making anatomy an integral part of physiology. The course covers all major body systems, tying them together to enable the student to appreciate how the body works. This course could be of special value to those interested in the biomedical fields.

Social Studies Education

Students enrolling in college credit classes must meet the college's admission requirements.

MODERN ISSUES (805)

Elective

Open to students in grades 9, 10. Students in grades 11 or 12 must have instructor approval to join the class.

1 trimester in length

RAI Core: 0.5 CU

This class will focus on current issues concerning the United States in its foreign and domestic policies. The course will also cover modern controversial issues in U. S. society. The class will investigate modern problems through readings, class discussions, and role simulations.

LITERATURE AND HISTORY (808)

Elective

Open to students in grades 9,10,11,12.

1 trimester in length

This course can be used as either a Social Studies elective or English credit. This class will focus on major literary themes, genres, and authors. It will include fiction of authors such as Poe, Steinbeck, Fitzgerald, and Shakespeare. Genres will include the Old West, Gothic, Mythology, and Adventure. This course will tie together major literary works with their place in time.

HOLLYWOOD VERSUS HISTORY (820)

Elective

Open to students in grades 11, 12. Students in grade 9, 10 must have instructor approval to join the class.

1 trimester in length

Students will explore how accurate or inaccurate film-makers are in portraying historic events. We will delve into what actually happened, how those interpretations in pop culture have changed and why, and why choices are made to alter or adapt history.

TWENTIETH CENTURY AMERICAN HISTORY (818)

Elective

Open to students in grades 9, 10, 11, 12

1 trimester in length

RAI Core: 0.5 CU

This course is an intensive study of American History after World War II. Studies follow the political, economic, and social changes in our country with special emphasis on the Cold War, Korean War, Vietnam War, Persian Gulf War, Civil Rights movement and the War on Terror. Emphasis is also placed on how these problems relate to us as individuals and how they affect the United States.

AMERICAN HISTORY A (8021) (Mid)

AMERICAN HISTORY B (8082) (Late)

Required

Open to students in grade 10

2 trimesters in length total.

RAI Core: 1 CU

This course is an intensive study of American history. Studies follow the political, economic, and social changes in our country with special emphasis on civil rights and the development of modern American society, changes which brought us to our present domestic and foreign situations. Emphasis is also placed on how these changes relate to us as individuals and how they affect the United States. Students are required to keep an interactive notebook that is graded.

WORLD CULTURES (811)

Elective

Open to students in grades 9, 10, 11, 12

1 trimester in length

RAI Core: 0.5 CU

World Cultures is the study of the various cultures, regions and geography of the world. Study will focus on the day to day life of the people in these regions. Religious beliefs, political systems, economic systems, history of the region, and U.S. foreign policy will be investigated. Students will also explore art, games, music, dance, and food from each of the regions. Students will work to develop an understanding of the different cultures of the world and will examine their part in world affairs. Map skills, geography, and use of the atlas will be incorporated.

WORLD HISTORY A (815) (Ancient to Medieval)

WORLD HISTORY B (816) (Renaissance to Modern)

Required

Open to students in grade 11

2 trimesters in length total.

RAI Core: 1 CU

In this course an inquiry approach placing great emphasis on ideas and concepts rather than pure facts will be employed. Movies, small group and large group discussion, role playing and case studies will be used. An additional focus on world geography will incorporate maps, charts, and graphs. This course will trace man's historical background from its earliest civilizations through World War II.

AMERICAN GOVERNMENT A (803)

AMERICAN GOVERNMENT B (804)

Required

Open to students in grades 12, 11 (with instructor approval)

2 trimesters in length total.

RAI Core: 1 CU

The purpose of the course in American Government is, first of all, to introduce the student to the patterns, forms, and functions of our national, state, and local units of government as well as economic principles and how they relate to the government. The course is designed to develop in the student the civic skills, appreciations, and ideals necessary for responsible participation in the life of American

democracy. The students should know what their government is and also the roles they are to play in order to make both their government and themselves more responsible.

Students must attend one public meeting from the list supplied by the instructor and must pass the Naturalization Test by a minimum of 90%. ***The Naturalization Test must be passed during the first trimester the student is enrolled in the class.***

ACCELERATED GOVERNMENT (804ACCEL)

Required (in place of American Government B)

Open to students in grade 11 (with instructor approval), 12

1 trimester in length

Prerequisite: 90% or above in Government A

RAI: 0.5 CU (takes the place of Am Gov't B)

The purpose of this Accelerated Government class is to challenge the upper level students in this subject area and to expose them to learning through service. The first six weeks of the class will be an accelerated curriculum. All chapters and content completed during a trimester of the original class will be completed during the six weeks. All tests will be completed on a specified date. Studying and preparation will be left to the individual student with two teacher guided days per week. The second half of the class will consist of the student proposing and completing a group service learning project of their choice.

Students are required to report to class on Fridays, but all other days will be open for the student to work on their project in the community. The project will be assessed by supervisor evaluation, a journal, a portfolio, and a presentation. The presentation of the project will be done in front of a panel of three school professionals. The presentation will replace the trimester test score.

LEADERSHIP AND ETHICS (823)

Elective

Open to students in grades 11, 12

1 trimester in length

Leadership and Ethics is a course that will promote essential components of character and leadership. It will help develop critical thinking and problem solving skills, build basic skills and prepare students for life after high school. This course will help students create short and long – term positive goals, strong values and high standards to live by. This course will also directly improve expository writing and reading comprehension skills.

SKILLS FOR HEALTHY LIVING (813)

Formerly Psychology for Living

Elective

Open to students in grades 10, 11 and 12

1 trimester in length

RAI Core: 0.5 CU

The psychological principles of human behavior and the application of these principles in helping students understand themselves and their relationships. Topics to be covered will focus around the theme of a healthier you.

LIVING IN A CHANGING WORLD (821)

Formerly Sociology

Elective

Open to students in grades 10, 11 and 12

1 trimester in length

RAI: 0.5 CU RAI Core: 0.5 CU

This course is a study of human behavior from the perspective of sociologists. It will examine the ways social interaction, social processes and social institutions affect our lives. The course will also explore the ways that personality, status, role, class, gender, age, race and ethnicity affect human interactions.

INTRODUCTION TO PSYCHOLOGY (PSY-111)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Open to students in grades 11, 12

1 trimester in length

RAI Core: 0.5 CU

Students enroll in this course under the Post Secondary Enrollment Options Act (Early Bird). The class will fulfill the Iowa Central Introduction to Psychology (PSY-111) requirements. Students who successfully complete the class will receive one high school credit and three semester hours of college credit through Iowa Central.

This course includes the tools for the study of psychology, basic psychological processes, personality and social behavior, contemporary knowledge of motives, intelligence, learning and emphasis on the language of modern psychology.

DEVELOPMENTAL PSYCHOLOGY (PSY-121)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Open to students in grades 11, 12

1 trimester in length

RAI Core: 0.5 CU

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird). This class will fulfill the Iowa Central Developmental Psychology (PSY-121) requirements. Students who successfully complete the class will receive one high school credit and three semester hours of college credit through Iowa Central.

This course traces the fundamental patterns of normal health development from conception to death. Each developmental period is examined in light of the characteristics of the period and the demands of the American culture. Recent research in the studies relating to different ages is reviewed.

CHILD PSYCHOLOGY (PSY- 222)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Open to students in grades 11, 12

1 trimester in length

RAI Core: 0.5 CU?

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird). This class will fulfill the Iowa Central Child Psychology (PSY-222) requirements. Students who successfully complete the class will receive one high school credit and three semester hours of college credit through Iowa Central.

This course focuses on the normative and non-normative influences of the physical, cognitive and socio-emotional processes of children from conception to age 12. The course will also examine how the dynamics of family, school, and society affect development.

ADOLESCENT PSYCHOLOGY (PSY- 224)

Elective - Early Bird (concurrent credit with Iowa Central Community College)

Open to students in grades 11, 12

1 trimester in length

RAI Core: 0.5 CU?

Students enroll in this class under the Post Secondary Enrollment Options Act (Early Bird). This class will fulfill the Iowa Central Adolescent Psychology (PSY-224) requirements. Students who successfully complete the class will receive one high school credit and three semester hours of college credit through Iowa Central.

This course concentrates on the bidirectional view of how physical changes affect socio-emotional and cognitive processes for adolescents age 10 – 19. It also includes the tools for the study of learning theories, community resources, and familial support needed to help adolescents successfully transition into adulthood.

World Languages Education

It is possible for students to take courses in both languages. It is encouraged to have a strong academic start in one language before pursuing a second one. Please note that in order to earn an Honors Diploma from Greene County High School, three years of the same language with no grades lower than a “C” must be taken. In order to fulfill exit requirements at the university level, students may need to take anywhere from two to four years of the same language.

FRENCH

FRENCH I A (2501)

FRENCH I B (2502)

Elective

Recommendation: At least a “C” grade in 8th grade English Language

Open to students in grade 9, 10, 11, 12

2 trimesters in length total. Limited to 22 students

RAI Core: 1 CU

The French I course centers on the basics of learning a language. Students are exposed to a variety of activities to learn to read, write, listen and speak French. Students will do some oral quizzes and many listening activities of French speaking young people to improve their language skills. Some lessons study the culture of over 30 French speaking countries, their places and locations. Emphasis is on vocabulary, present tense verbs, sentence structure and spelling.

Students will learn how to communicate about the following topics: likes, dislikes, classroom objects, telling time, classes and opinions about them, body parts, items they want for Christmas, weather, activities they do or play, ordering food and drink items at a café, and inviting others to join them to do activities or to go places. There are some video clips that present the culture, local accent and language from specific French territories..

FRENCH 2 A (2511)

FRENCH 2 B (2512)

Elective

Recommendation: French I with at least a “C” grade

Open to students in grade 10, 11, 12

2 trimesters in length total.

RAI Core: 1 CU

The French 2 course is designed to help the student progress in all four skills: speaking, listening, reading and writing. Students expand their vocabulary and there is more emphasis on grammar and different tenses of verbs, such as the past tense. There is some role-playing and storytelling in the language, plus students will continue to listen to recordings of native speakers.

Students will learn how to communicate about the following topics: family, household chores, food, what they eat for meals, describing their weekend or past events, asking and giving advice, clothing, describing clothing, and shopping vocabulary. There is more of a focus on collaboration and improving writing compositions.

FRENCH 3 A (2521)

FRENCH 3 B (2522)

Elective

Recommendation: French 2 with at least a “C” grade

Open to students in grades 11, 12

2 trimesters in length total.

RAI Core: 1 CU

The French 3 course is designed for the more dedicated world language student as it is more intense. Students will practice more difficult language skills and do further storytelling. There is more emphasis on verb tenses to expand the student's language ability. There will be times where conversation is only in French.

Students will learn how to communicate about the following topics: welcoming a visitor, describing household items and rooms, giving directions, shopping for food at specialty stores, giving advice, reflexive verbs to talk about daily routine, island vocabulary to describe Martinique activities and habits, retelling events, asking and giving opinions about a past event, and describing childhood activities. There is also a focus on differentiating between the two tenses of past and imperfect. Students will also read an intermediate reader and do the activities that accompany the book.

FRENCH 4 A (2531)

FRENCH 4 B (2532)

Elective

Recommendation: French 3 with at least a “C” grade

Open to students in grade 12

2 trimesters in length total.

RAI Core: 1 CU

The French 4 course is the most complex and is designed for the student who enjoys language study and is possibly going to pursue French study further. Students learn more tenses to talk about their future. The class will have a choice between two short novels. Students also learn the conditional tense and subjunctive mood. More time is devoted to speaking French in class.

Students will learn how to communicate about the following topics: asking and retelling about past activities, how to order specialties in French restaurants, telling what household chores need to be done, subjunctive verb forms to give others advice, telling about future plans, and giving opinions in the conditional tense about what they would do. Time is spent polishing the skills and verb tenses from the previous levels.

SPANISH

SPANISH 1 A (2601)

SPANISH 1 B (2602)

Elective

Recommendation: At least a "C" grade in 8th grade English Language

Open to students in grade 9, 10, 11, 12

2 trimesters in length

RAI Core: 1 CU

Spanish I is designed to enable students to begin to speak, read, write and understand spoken Spanish. Emphasis is on vocabulary, present tense verbs, sentence structure and spelling. Many oral quizzes are given to help students acquire the skills of speaking and listening. Also, students are exposed to CD's in which they listen to native speakers. They also watch DVD's which have native speakers using the language in a conversation. There are discussions about the Hispanic culture and guest speakers when the opportunity arises. Students will be exposed to Hispanic singers by watching music videos in Spanish. Some of the topics covered include: numbers, alphabet, giving and asking basic information such as name, age, telephone, email, greeting people, weather expressions, discussing family, house and chores, speaking about class schedules and school supplies, talking about leisure activities, describing people, telling time, discussing wardrobe and discussing likes and dislikes and places and their locations. Students will also read "Peter va a Colombia" which is a beginning reader and to the activities that accompany the book.

SPANISH 2 A (2611)

SPANISH 2 B (2612)

Elective

Recommendation: Spanish I with at least a "C" grade

Open to students in grade 10, 11, 12

2 trimesters in length

RAI Core: 1 CU

Second year Spanish will expand upon the concepts covered in Spanish I. Students will continue improve their skills in speaking, writing, listening, reading and culture. Oral quizzes are given to help students acquire the skills of speaking and students will listen to audio of native speakers to help their listening skills. They will read a mini-novel called "Esperanza" which is about a family during the Guatemala Civil War. New topics are food, restaurant, giving instructions, stem-changing verbs, describing daily routines, the present progressive tense, emotions, health, body parts, clothing, stores, the preterit tense, holidays, the airport and current events.

SPANISH 3 A (2621)

SPANISH 3 B (2622)

Elective

Recommendation: Spanish 2 with at least a “C” grade

Open to students in grade 11, 12

2 trimesters in length

RAI Core: 1 CU

Third year Spanish will continue to build upon the previous two years of Spanish including speaking, reading, writing, listening and current events. Oral quizzes are given to help students acquire the skill of speaking and students will listen to audio of native speakers to help their listening skills. They will read a mini novel called “Los Rebeldes de Tejas.” More emphasis is placed on writing and the mastery of the two past tenses (preterit and imperfect), Other topics are: professions and the future, housing, conditional tense and hypothetical situations, getting around town/stores, asking and giving directions, and childhood type vocabulary.

SPANISH 4 A (2631)

SPANISH 4 B (2632)

Elective

Prerequisite: Spanish 3 with at least a “C” grade

Open to students in grade 11, 12

2 trimesters in length total.

RAI Core: 1 CU

Fourth year Spanish has more emphasis on speaking Spanish in class and on complex sentence structure. The students must rely on remembering vocabulary from the previous levels. All verb tenses will be reviewed with a focus on the subjunctive mood. More time is devoted to speaking, writing compositions, and reading two short novels. Topics covered are asking for and giving advice, showing displeasure, summer vacation, free time activities, invitations, opinion-giving, showing agreement and disagreement, apologizing, and making suggestions. Tenses covered and reviewed are: preterit, imperfect, present, progressive, subjunctive, present perfect, future, conditional and the imperfect subjunctive. Students will continue to listen to CD's and watch DVD's of native speakers. There are discussions about the Hispanic culture and guest speakers when the opportunity arises. Many oral quizzes are given to help students acquire the skills of speaking and listening. Students will explore the Dirty War in Argentina followed up by reading Guerra sucia.

CONVERSATIONAL SPANISH (2633)

Formerly called Honors Spanish

Elective

Prerequisite: Spanish 4 with at least a “C” grade

Open to students in grade 12

1 trimester in length

RAI Core: 0.5 CU

Conversational Spanish is conducted in the target language. The main goal is to expand on speaking, listening, writing, and reading. Two compositions, on various topics, will be written to develop writing skills. Each student will be responsible for a “show and tell” which encourages spontaneous speaking skills. Several topics are discussed such as: Spanish Civil War, the Cuban Revolution and the three waves of migration from Cuba, Immigration, and Dictatorships of Latin America focusing on Chile and Argentina. These topics are explored through research via a web quest, discussion in class, and a movie related to each topic. An art unit consisting of Spanish and Latin American artists is explored with a presentation of the various artists given by students. Students will read a book in Spanish about the life of Frida Kahlo. If time allows there will be additional readings.

Additional Courses

DRIVERS' EDUCATION _____ (091)

Classes offered: fall, spring, June and July

Prerequisites: Students must be 14 and hold a valid learners permit prior to registering

Cost: \$335

Website: <http://streetsmartsdriversed.com/>

StreetSmarts is locally owned and operated and employs only Iowa certified licensed instructors. The company is fully licensed by the Iowa Department of Education and the Iowa Department of Transportation. StreetSmarts is proud of its reputation and puts the safety and welfare of its students first.

Iowa Driver's Education must meet the following Iowa criteria:

- 30 hours of classroom instruction

- 6 hours of behind-the-wheel / 6 hours of observation

- 4 hours of instruction concerning substance abuse

- 20 minutes of instruction concerning railroad crossing safety, instruction relating to becoming an organ donor under the Uniform Anatomical Gift Act.

Classes feature the following:

- Power point classroom instruction

- All homework completed during class time

- Flexible driving schedules

- Knowledgeable guest speakers including: law enforcement, insurance professionals and motorcycle safety professionals

- The 6 hours of drive time will be set up during the first class and are scheduled outside of class time

- Parking – all types of parking are taught, allowing students to get the feel for vehicle dimensions and turning capabilities

- Gavel road driving – experience on gravel is necessary to ensure that students understand how vehicles react on gravel – conditions permitting

- Highway driving – highway speeds and traffic conditions

- Extensive city driving – various driving situations to ensure overall experience

- No refunds given after the first class session**

HEALTH / CPR (096)

Required

Open to students in grades 9, 10, 11, 12

1 trimester in length

Students will study the importance of health over the life span of an individual. Some of these topics include: self-Awareness, multiple intelligences, the decision-making process and goal-setting, handling stress, friendships and peer pressure, learning styles, alcohol, drug and tobacco use and abuse, nutrition and fitness, body systems, anatomy and sexual health, diseases, CPR, First Aid and Safety. All students will demonstrate knowledge of CPR. For a small fee, students have the opportunity to be certified in CPR.

HEALTH II (098)

Required if not taking HEALTH/CPR
Open to students in grades 11, 12
1 trimester in length

Health II has an emphasis on service learning in and for the community to increase awareness of public health services that are available. Some service learning is done out in the community and others are done from the classroom. The students will do in depth research and presentation on illnesses and diseases and the effects of the condition on body systems. The in-class learning includes a study on family and romantic relationships, values, communication, goal-setting and making decisions.

CADET TEACHING (097-1) 1st trimester
CADET TEACHING (097-2) 2nd trimester
CADET TEACHING (097-3) 3rd trimester

Elective

Prerequisite: Application and Instructor Approval

Students must provide their own transportation and be available for 7:30 a.m. meeting

Maximum of 10 absences per trimester (subject to review by administration)

Maximum of 10 tardies of any type per trimester (subject to review by administration)

Students who have had a Good Conduct violation during their high school years are not eligible to apply for Cadet Teaching.

Students may not cadet for a parent or in a class where a sibling is located.

Open to grade 12

1 trimester in length - this class may be taken for multiple trimesters with instructor approval.

The purpose of the Cadet program is to provide students with the opportunity to acquire actual teaching and/or tutoring experience under the guidance of an elementary or middle school classroom teacher. Strategies for learning and practical ideas for helping students will be taught. Students will have the opportunity to apply their knowledge/skills in an actual classroom setting..

Attendance is crucial to this program. Too many tardies or absences will result in being dropped from the program. A letter will be sent to the students and parents warning that the student will be dropped if any more violations occur. Inappropriate behavior that does not reflect professional standards required by the class may also result in being dropped from the class. Example: Discussing confidential information about a student or teacher or skipping school.

Appropriate dress will be required. What is appropriate at the high school may not be appropriate in an elementary or middle school classroom. Discussion of appropriate dress will be addressed in the training sessions.

Phase I cadets must attend 5-6 cadet training sessions during trimester. The training sessions are held outside of school time and complete all assigned work to instructor's satisfaction.

Phase 2 (those who have successfully completed Phase I) cadets will go to their cadet site daily. Cadets will be required to complete several major assignments and complete the work to the instructor's satisfaction.

TEACHER AIDE (093-1) 1st trimester

TEACHER AIDE (093-2) 2nd trimester

TEACHER AIDE (093-3) 3rd trimester

Elective

Prerequisite: Instructor Approval and at least a 2.50 G.P.A.

Maximum of 10 absences per trimester (subject to review by administration)

Maximum of 10 tardies of any type per trimester (subject to review by administration)

Students who have had a Good Conduct violation during their high school years are not eligible to apply to be a Teacher Aide.

Open to students in grade 12

1 trimester in length - this class may be taken for multiple trimesters.

Seniors may elect to assist a high school classroom teacher. Duties may include attendance, helping run materials, providing additional instruction to a student, preparing bulletin boards, monitoring students while they make-up a test or running errands for the instructor.

Attendance is crucial to this program. A letter will be sent to the students and parents warning that the student will be dropped if any more violations occur. Inappropriate behavior that does not reflect professional standards required by the class may also result in being dropped from the class. Example: Discussing confidential information about a student or teacher or skipping school.

Students will be required to maintain a daily reflective log, read articles and write reports about the articles, and turn in weekly evaluation form to the counselor. Grading will be by Pass/Fail only.

Students must work for the teacher every day in order to be eligible for credit.

Level 3 teacher aides will be required to develop a project that they wish to complete with their teacher. The project will need to be approved by the administration.

GREENE SPACES (5082-1) trimester 1

GREENE SPACES (5082-2) trimester 2

GREENE SPACES (5082-3) trimester 3

Elective

Prerequisite: Instructor approval (class limited to 10 students per trimester)

Students wanting to take this class must have had at least a C grade in English I A and English 1 B and English II A and English II B

Open to students in grades 10, 11, 12

1 trimester in length - may be taken for multiple trimesters for 1-3 credits. This class will not be accepted as an English credit at college.

This course will acquaint students with basic aspects of newspaper production. Students will provide weekly articles for the school newspaper, *Greene Spaces*. Areas of study include writing news articles, meeting deadlines, photography, using the computer, and layout and design. Yearbook is part of this class.

ONLINE COLLEGE CLASS (5051c-1) fall term

ONLINE COLLEGE CLASS (5051c-3) spring term

Open to students in grades 11, 12

1 trimester in length – offered 1st and 3rd trimesters only

Juniors may only take an online class during spring semester

For the most part, students enrolling in online college classes will be earning Iowa Central Community College credit. Students wishing to enroll in an online class must meet the college criteria for enrollment and must complete the necessary college paperwork provided by the high school counselor or his/her designee. A current list of online classes may be obtained from the high school counselor.

Students enrolling in fall semester classes (August-December) will be assigned a period to work on their class during first trimester only. **Students will be responsible for completing the class during the second trimester without an assigned class period.**

Students enrolling in spring semester classes (January-May) will be assigned a period to work on their class during third trimester only. Students will be responsible for working on the class during the second trimester without an assigned class period.

Students who fail an online college class or fail to complete the class in the allotted time, will be responsible for reimbursing the district for the cost of the class. **Grades for your online college class can affect eligibility for financial aid in college. Students must maintain a cumulative grade point average (GPA) of 2.0 and they must successfully complete at least 67% of his or her college courses. If the GPA or completion rate is not met, the student will be on financial aid warning.**

COURSE ACCELERATION

Open to students in grades 9, 10, 11, 12

What is course or grade acceleration?

Grade level acceleration is when a student is able to skip a grade or grades. Course or subject acceleration is when a student is able to skip a course or subject. An example of course acceleration would be a student not taking Physical Science as a freshman and instead taking Biology. A student who is allowed to accelerate does not receive any credit for the course they accelerated beyond. The purpose for grade level and course/subject acceleration is to provide every student academically rigorous courses.

What is the procedure for grade level and/or course or subject acceleration?

Greene County High School will follow these grade level and/or course/subject acceleration procedures.

1. Parents of students who score at the 95th percentile (Iowa Norms) or above on a specific subject area Iowa Assessment tests will be sent a letter notifying them that their child may have an opportunity for academic acceleration.
2. Parents wishing to take advantage of this opportunity will need to contact the school to complete a Recommendation for Acceleration Form (this recommendation may also be completed by a teacher, guidance counselor, or principal).

Upon receipt of a Recommendation for Acceleration Form, a committee consisting of the following individuals will be convened: parents, student, selected teachers, counselor and principal. The purpose of this committee will be to determine the following:

- A. Student Desires Acceleration – It must be concluded that the student desires acceleration.
- B. Social-Emotional Maturity – It must be concluded that the student's social-emotional maturity is at a level where acceleration is desirable. A psychologist from Prairie Lakes AEA may be asked to assist in this determination through the use of an appropriate assessment.
- C. Minimum Level of Skill Proficiency – It must be concluded that the student will be able to perform at a minimum skill level in their new placement.

If a student meets all of the criteria for acceleration, the committee will develop a Written Acceleration Plan for the student.

The committee will reconvene after six weeks to evaluate the success of the acceleration. After the six week evaluation, a student may be returned to their original placement if the committee determines they are not being successful. Indicators of success may include (but are not limited to): course participation, grades, course assessments, teacher observation, student confidence/reflection, etc.

If the committee decides to not approve the acceleration, the parents and/or student may appeal the decision to the superintendent.

*Requests for acceleration may be denied if the school district does not have the proper equipment, facilities, or funding to support the request.

IOWA ONLINE ADVANCED PLACEMENT ACADEMY and APEX LEARNING ONLINE

Elective

Open to students in grades 9, 10, 11, 12

AP courses are available to students through the Belin Blank Academy or through Apex Learning Online. Advanced Placement courses are college level courses that a student can take at the high school level. Students may receive college credit for these courses if they pass the Advanced Placement course test with a specified score. However, granting college credit for Advanced Placement courses is determined by each individual college. Not all colleges will grant college credit for Advanced Placement courses. Depending upon the university/college and the student's score on the A.P. Exam, a student may earn up to six college credits or have advanced placement when entering the college or university.

Students and parents are advised to check into how the university or college of their choice works with, and accepts, A.P. classes and scores. All courses have been authorized by the College Board to use the AP designation.

1. How Do I Qualify To Take An AP Course?

The AP Potential (PSAT test) will be used if students are interested in taking an AP course that does not have a similar course in district. It is the student's responsibility to sign up for, and take, the PSAT if they wish to take an AP course. Students also need to follow Course Acceleration guidelines and paperwork.

2. How Will AP Courses Be Taught?

AP Calculus will be taught at Greene County High School by Greene County staff. All other AP courses will be web-based and will be taught through Belin and Blank or APEX. Belin and Blank and APEX will assign a qualified teacher to interact with the student. Jefferson-Scranton school staff will not be responsible for teaching any of the AP courses and are under no obligation to assist the AP students with homework and/or questions.

3. What AP Courses May Students Take?

AP courses provided by Belin and Blank and APEX will be the AP courses available to students. A list of available courses is included at the end of these questions.

4. How Will AP Courses With a Lab Component Be Treated?

Biology, Chemistry and Physics labs will be completed as "dry labs" and will be completed at the student's home.

Greene County High School staff will not be responsible for setting up or supervising labs. One lab/dry lab will be purchased for every two students. Students will be responsible for checking with the college of their choice to see if the college will accept the class if it is paired with a "dry lab".

5. Are Students Required to Take the AP Test?

Students are required to take the AP test. Failure to take the AP test will be considered a failure to complete the course.

6. How Many AP Courses May a Student Take?

Students may take a maximum of two online AP courses at a time. Additional online AP courses may be taken at the student's expense.

7. What Are Course Registration Deadlines?

The course registration deadline for the fall semester (1st trimester) will be the last day of school the previous year.

The course registration deadline for the spring semester (2nd and 3rd trimester) will be the last day of the first trimester.

8. What Supplies Will Be Provided by the Student and What Supplies Will Be Provided by the District?

Students will be responsible for supplying their own calculators. The school district will be responsible for supplying the AP textbook and the dry lab.

9. What Are the Responsibilities of the District and the Student?

The school district will provide a staff member to monitor student progress toward completion of AP courses. The school will also notify parents of student progress. Ultimately, completion of the course work and the final grade are the sole responsibility of the student.

10. What Are the Consequences For Not Completing An AP Course?

Students failing or not completing an AP course will be required to reimburse the school district for the cost of the AP course. Not taking the AP test will constitute not completing the course. Students will not be allowed to take another AP course until the cost has been paid.

- A. If a student drops an AP class BEFORE the class starts there is a full refund to the account
- B. If a student drops an AP class between day 1 and day 28, there is a refund of \$275 to the account and the student is responsible for the remaining \$75 or current remaining cost of the course.
- C. If a student drops an AP class after day 28, there is no refund and the student must reimburse the school the full \$350 or current cost of the class.

11. Who Will Supervise Exams?

All quizzes and tests will be monitored by Greene County High School faculty. Students are required to make arrangements to set up monitoring of a test at least twenty-four hours prior to the quiz or test. Tests over 60 minutes in length must be arranged to be taken before or after school.

Listed below are the advanced placement classes available for students and a short description of each class.

AP BIOLOGY A (7121) 1st trimester

AP BIOLOGY B (7122) 2nd trimester

AP BIOLOGY C (7123) 3rd trimester

Prerequisite: High School Biology and Chemistry

Two semesters in length; must be taken all 3 trimesters

Required Materials: Lab Materials

Optional Materials: *Biology, AP Biology Lab manual for Students*

In AP Biology, students build the conceptual framework necessary to understand science as a process.

The course is divided into three sections with correlating laboratory exercises: molecules and cells; heredity and evolution; and organisms and populations. Students will also explore evolution, energy transfer, continuity and change, the relationship of structure to function, regulation, interdependence in nature, and the balances of science, technology, and nature. The equivalent of an introductory college-level biology course, AP Biology prepares students for the AP exam and for future study in health sciences. This course requires students to complete hand-on lab activities that do not depend on access to a supervised laboratory facility. It is appropriate both for distance-learning students as well as those in a school setting.

AP ENGLISH LANGUAGE AND COMPOSITION A (1051) 1st trimester

AP ENGLISH LANGUAGE AND COMPOSITION B (1052) 2nd trimester

AP ENGLISH LANGUAGE AND COMPOSITION C (1053) 3rd trimester

Prerequisite: At least a "B-" grade in the most recent English course

Two semesters in length; must be taken all 3 trimesters

Required Materials: *The Norton Reader, Writing, A College Handbook*

In AP English Language and Composition, students learn to understand and analyze complex styles of writing by reading words from a variety of authors. They'll explore the richness of language, including syntax, imitation, word choice, and tone. They'll also learn about their own composition style and process, starting with exploration, planning, and writing, and continuing through editing, peer review, rewriting, polishing, and applying what they learn to a breadth of academic, personal, and professional contexts. The equivalent of an introductory college-level survey class, this course prepares students for the AP Exam and for further study in communications, creative writing, journalism, literature, and composition.

AP ENGLISH LITERATURE AND COMPOSITION A (1141) 1st trimester
AP ENGLISH LITERATURE AND COMPOSITION B (1142) 2nd trimester
AP ENGLISH LITERATURE AND COMPOSITION C (1143) 3rd trimester

Prerequisite: At least a “B-“grade in the most recent English course

Two semesters in length; must be taken all 3 trimesters

Required Materials: *The Norton Anthology of Poetry, Short Fiction: An Anthology, Hedda Gabler, Streetcar Named Desire, Their Eyes Were Watching God, Twelfth Night, The Great Gatsby, Annie John, Jane Eyre*

AP English Literature and Composition immerses students in novels, plays, poems, and short stories from various periods. Students will read and write daily, using a variety of multimedia and interactive activities, interpretive writing assignments, and class discussions to assess and improve their skills and knowledge. The course places special emphasis on a reading comprehension, structural and critical analysis of written works, literary vocabulary, and recognizing and understanding literary devices.

The equivalent of an introductory college-level survey class, this course prepares students for the AP Exam and for further study in creative writing, communications, journalism, literature, and composition.

AP FRENCH LANGUAGE AND COMPOSITION A (2541) 1st trimester
AP FRENCH LANGUAGE AND COMPOSITION B (2542) 2nd trimester
AP FRENCH LANGUAGE AND COMPOSITION C (2543) 3rd trimester

Prerequisite: 3-4 years of high school French or equivalent native fluency

Two semesters in length; must be taken all 3 trimesters

Required Materials: Any French-English or English-French dictionary, microphone

AP French Language students apply their French grammar and vocabulary knowledge and their listening, reading, speaking, and writing skills to a wide variety of real-world contexts. Students learn to speak fluently and accurately, write complicated compositions, and comprehend native speakers. The equivalent of a college-level language course, AP French Language prepares students for the AP Exam and for further study of French language, culture, and literature.

AP MACROECONOMICS A (8262) 2nd trimester
AP MACROECONOMICS B (8263) 3rd trimester

Prerequisite: Algebra 2 or Math Analysis

One semester in length; must be taken in trimesters 2 and 3

Required Materials: none

AP Macroeconomics students learn why and how the world economy can change from month to month, how to identify trends in our economy, and how to use those trends to develop performance measures and predictors of economic growth or decline. They'll also examine how individuals, institutions, and influences affect people, and how those factors can impact everyone's life through employment rates, government spending, inflation, taxes, and production. The equivalent of a 100-level college-level class, this course prepares students for the AP Exam and for further study in business, political science and history.

AP MICROECONOMICS A (8272) 2nd trimester

AP MICROECONOMICS B (8273) 3rd trimester

Prerequisite: High school Algebra I

One semester in length; must be taken in trimesters 2 and 3

Required Materials: none

AP Microeconomics studies the behavior of individuals and businesses as they exchange goods and services in the marketplace. Students will learn why the same product costs different amounts at different stores, in different cities, at different times. They'll also learn to spot patterns in economic behavior and how to use those patterns to explain buyer and seller behavior under various conditions.

Microeconomics studies the economic way of thinking, understanding the nature and function of markets, the role of scarcity and competition, the influence of factors such as interest rates on business decisions, and the role of government in promoting a healthy economy. The equivalent of a 100-level college course, AP Microeconomics prepares students for the AP Exam and for further study in business, history, and political science.

THIS COURSE IS GOING UNDER A REVISION. UNKNOWN IF IT WILL BE AVAILABLE 17-18

AP PHYSICS B -1 (7061) 1st trimester

AP PHYSICS B -2 (7062) 2nd trimester

AP PHYSICS B -3 (7063) 3rd trimester

Prerequisite: High school Algebra 2, Pre-Calculus with Trigonometry

Two semesters in length; must be taken all 3 trimesters

Required Materials: *Schaum's Outline of College Physics*, TI-84 Plus, TI-83, or TI-83 Plus Calculator
Lab Materials

AP Physics B is a non-calculus survey course covering five general areas: Newtonian mechanics, thermal physics, electricity and magnetism, waves and optics, and atomic and nuclear physics. Students will gain an understanding of physics' core principles and then apply them to problem-solving exercise.

They'll learn how to measure the mass of a planet without weighing it, find out how electricity makes a motor turn, and learn how options know how to shape the lenses for glasses. The equivalent of an introductory college-level course, AP Physics B prepares students for the AP Exam and for further study in science and engineering. This course requires students to complete hand-on lab activities that do not depend on access to a supervised laboratory facility. It is appropriate both for distance-learning students as well as those in a school setting.

AP PSYCHOLOGY A (1112) 2nd trimester

AP PSYCHOLOGY B (1113) 3rd trimester

Prerequisite: High school Biology

One semester in length; must be taken trimesters 2 and 3

Required Materials: *Psychology* 9th edition

P Psychology provides an overview of current psychological research methods and theories.

Students will explore the therapies used by professional counselors and clinical psychologists and examines the reasons for normal human reactions; how people learn and think, the process of human development and human aggression, altruism, intimacy, and self-reflection. They'll study core psychological concepts, such as the brain and sense functions, and learn to gauge human reactions, gather information, and form meaningful syntheses. Along the way, students will also investigate relevant concepts like study skills and information retention. The equivalent of a 100-level college survey course, AP Psychology prepares students for the AP Exam and for further studies in psychology and the sciences.

AP SPANISH LANGUAGE AND COMPOSITION A (2641) 1st trimester
AP SPANISH LANGUAGE AND COMPOSITION B (2642) 2nd trimester
AP SPANISH LANGUAGE AND COMPOSITION C (2643) 3rd trimester

Prerequisite: 3-4 years of Spanish or equivalent native fluency

Two semesters in length; must be taken all 3 trimesters

Required Materials: Any Spanish-English or English-Spanish dictionary, microphone

AP Spanish Language students practice perfecting their Spanish speaking, listening, reading, and writing skills. They study vocabulary, grammar, and cultural aspects of the language, and then apply what they've learned in extensive written and spoken exercise. By the end of the course, students will have an expansive vocabulary and a solid, working knowledge of all verb forms and tenses. The equivalent of a college-level language course, AP Spanish Language prepares students for the AP Exam and for further study of Spanish language, culture, or literature.

AP STATISTICS A (1561) 1st trimester

AP STATISTICS B (1562) 2nd trimester

AP STATISTICS C (1563) 3rd trimester

Prerequisite: High school Algebra 2 or Math Analysis

Two semesters in length; must be taken all 3 trimesters

Required Materials: TI-84 Plus, TI-83, or TI-83 Plus Calculator

AP Statistics gives students hands-on experience collecting, analyzing, graphing, and interpreting real-world data. They will learn to effectively design and analyze research studies by reviewing and evaluating real research examples taken from daily life. The next time they hear the results from another poll or study, they will know whether the results are valid. As the art of drawing conclusions from imperfect data and the science of real world uncertainties, statistics plays an important role in many fields. The equivalent of an introductory college-level course, AP Statistics prepares students for the AP Exam and for further study in science, sociology, medicine, engineering, political science, geography, and business.

AP U.S. GOVERNMENT AND POLITICS A (8252) 2nd trimester

AP U.S. GOVERNMENT AND POLITICS B (8253) 3rd trimester

Prerequisite: U.S. History

One semester in length; must be taken in trimesters 2 and 3

Required Materials: *The Lanahan Readings in the American Polity*, *American Government: Power and Purpose*

AP U.S. Government and Politics studies the operations and structure of the U.S. government and the behavior of the electorate and politicians. Students will gain the analytic perspective necessary to critically evaluate political data, hypotheses, concepts, opinions, and processes. Along the way, they'll learn how to gather data about political behavior and develop their own theoretical analysis of American politics. They'll also build the skills they need to examine general propositions about government and politics, and to analyze the specific relationships between political, social, and economic institutions. The equivalent of an introductory college-level course, AP U.S. Government and Politics prepares students for the AP Exam and for further study in political science, law, education, business, and history.

AP U.S.HISTORY A (8151) 1st trimester

AP U.S. HISTORY B (8152) 2nd trimester

AP U.S. HISTORY C (8153) 3rd trimester

Prerequisite: At least a "B-" grade in the most recent social studies class

Two semesters in length; must be taken in trimesters 1, 2, and 3

Required Materials: *America: A Narrative History*

AP US History analyzes and explores the economic, political, and social changes in America since Columbus. Students will master historical knowledge and critical analysis, build reading, writing, and communication skills, and discover how historical events have contributed to American culture. In the process, they'll learn how decisions and events of the past continue to have profound effects on the world today and how knowledge of the causes behind past events can influence future decisions. By the end of the course, students will be ready to put their factual knowledge to work by weighing evidence and interpreting problems presented by historians. The equivalent of an introductory college-level course, AP U.S. History prepares students for the AP Exam and for further study in history, political science, economics, sociology, and law.