

## AGRICULTURE

### AGRICULTURE LEADERSHIP

**1 SEM—5 CREDITS**

Description: This course is designed as an introduction to agriculture. Major units include agriculture careers, agriculture issues, parliamentary procedure, SAE record keeping, livestock judging, and student organization involvement. **This class must be taken before other ag courses as a freshman.** Fall semester.

Prerequisites: None

Grade Level: 9-10

Course Number: 000751

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### AGRI-BUSINESS

**1 SEM-5 CREDITS**

Description: The curriculum is designed to help students improve their agribusiness management skills. The major units are sales, marketing, finance, record keeping, and economics. Spring semester.

Prerequisites: None

Grade Level: 10-12

Course Number: 000753

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### ANIMAL SCIENCE

**1 SEM—5 CREDITS**

Description: Students will learn about the livestock industry, animal care, and animal careers. Specific units include selection, breeding, health, feeding, and meats. Fall semester.

Prerequisites: None

Grade Level: 10-12

Course Number: 000757

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### HORTICULTURE

**1 SEM—5 CREDITS**

Description: This course focuses on the culture of indoor and outdoor plants. Students will learn competencies important in establishing, maintaining, and managing horticulture enterprises. Spring semester.

Prerequisites: None

Grade Level: 9-12

Course Number: 000791

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**NATURAL RESOURCES****1 SEM—5 CREDITS**

Description: Curriculum emphasizes the principles and processes involved in conserving and/or improving natural resources such as air, water, and, forestry, and energy. Fall semester.

Prerequisites: None

Grade Level: 10-12

Course Number: 000754

**WELDING****1 SEM—5 CREDITS**

Description: Students will learn about the selection and safe operation of metal working equipment. After completing a series of practice welds, students will design and construct projects. Fall and spring semester.

Prerequisites: None

Grade Level: 10-12

Course Number: 000793

**ADVANCED WELDING****1 SEM—5 CREDITS**

Description: Students will design and construct approved metal projects after completing welding. Fall and spring semester.

Prerequisites: Welding

Grade Level: 11-12

Course Number: 000795

**WILDLIFE MANAGEMENT****1 SEM—5 CREDITS**

Description: Curriculum includes the study of fish and wildlife management. Specific units include identification, habitat, careers, issues, hunting and fishing. Fall semester.

Prerequisites: None

Grade Level: 10-12

Course Number: 000756

**ADVANCED WILDLIFE MANAGEMENT****1 SEM—5 CREDITS**

Description: This is the study of advanced fish and wildlife management techniques. Specific units include orienteering, fly fishing, archery, trapping, boating, species research and habitat projects. Spring semester.

Prerequisites: Wildlife

Grade Level: 10-12

Course Number: 000758

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**AGRICULTURAL MECHANICS—SMALL ENGINES****1 SEM—5 CREDITS**

Description: Curriculum provides experience in the selection, operation, maintenance, repair, and use of small engines. Fall semester.

Prerequisites: None

Grade Level: 10-12

Course Number:

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**AGRICULTURAL MECHANICS—ELECTRICITY****1 SEM—5 CREDITS**

Curriculum provides experience in the selection, operation, design, and use of electrical equipment and circuits. Spring semester.

Prerequisites: None

Grade Level: 9-12

Course Number:

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**ADVANCED ANIMAL SCIENCE****1 SEM—5 CREDITS**

Description: Students will learn about the livestock industry, animal care, and animal careers. Specific units include species research, diseases, advanced breeding systems, feeding, and meat processing.

Prerequisites: Animal Science

Grade Level: 10-12

Course Number:

## ART

### **BEGINNING ART I/II**

**1 SEM EA—5 CRED.**

Description: In this beginning art class the student will explore making art, study art history, interpret art and learn to appreciate art. They will have an opportunity to work in a variety of media. First semester: Focus on 2D and 3D design, drawing and some work in painting. Second semester: Focus on perspective, portrait, and still life drawing, realistic painting, printmaking, and with some work in sculpture and/or crafts.

Prerequisites: None

Grade Level: 9-12, no fees

Course Number: 000911

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### **ADVANCED ART**

**1 SEM—5 CREDITS**

Six semesters

Description: In this advanced art class, the student uses techniques learned in beginning art to work more in-depth with realistic and abstract art projects, including two self-portraits each semester. They will have an opportunity to focus on studio production while advancing their level of mastery and developing an individualistic style. This class gives the student an opportunity to develop a strong portfolio to show at college

Prerequisites: Beginning Art I and Beginning Art II

Grade Level: 10-12, \$10.00 fee for supplies

Course Number: 000931

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### **BEGINNING CERAMICS**

**1 SEM—5 CREDITS**

Description: In this introductory class, the student will concentrate on the basics of hand building, wheel throwing and decorating techniques using low-fire clay. They will work on several projects and will also be exposed to the basics of loading, firing, and unloading the kiln, clay and glazes.

Prerequisites: None

Grade Level: 9-12 \$15.00 fee for Clay and Glazes

Course Number: 000921

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**ADVANCED CERAMICS****1 SEM—5 CREDITS**

Description: In this advanced ceramics class the student focuses on improving their wheel throwing skills, combining the hand building techniques, and creating projects based on historical cultures. They will work on both functional and nonfunctional projects.

Prerequisites: Beginning Ceramics

Grade Level: 9-12, \$20.00 fee for Clay and Glazes

Course Number: 000922

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**INDEPENDENT STUDY ART****1 SEM—5 CREDITS**

Two Semesters

Description: To take this advanced class, the student must be a senior and receive permission from the art instructor. The student and the instructor will work together to develop a contract of projects in fine arts, ceramics, or photography. They will research several different artists and write a research paper for the final. Additional personal costs could be involved.

Prerequisites: Art I/II **AND** Advanced Art, Ceramics, or Photography

Grade Level: 12, Fees may be required.

Course Number: 000925

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**BEGINNING PHOTOGRAPHY****1 SEM—5 CREDITS**

Description: In this beginning photography class, the student will use a 35mm camera to take black and white photographs with good composition. They will learn basic camera operations, take a variety of pictures, develop negatives, and develop photographs using the darkroom.

Prerequisites: One semester of beginning art. **Student must have a working 35mm camera.**

Grade Level: 10-12, \$20.00 fee for Film, Paper, and Chemicals

Course Number: 000953

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**ADVANCED PHOTOGRAPHY****1 SEM—5 CREDITS**

Two semesters

Description: In this advanced photography class, the student will use the basic skills learned in beginning photography and will focus on learning the operation of a 35mm manual camera. They will have specific assignment, techniques and special effects to explore with some exposure to digital photography.

Prerequisites: One semester of beginning art and beginning photography, **working 35mm camera.**

Grade Level: 11-12, \$20.00 fee for Film, Chemicals, and Paper

Course Number: 000954

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**DRAWING****1 SEM—5 CREDITS**

Description: In this advanced class, the student will explore more realistic drawings using techniques learned in Beginning Art I/II while improving their observation skills. Drawings will focus on composition, observation, structures and landscapes, anatomy and the figure, creativity, and artists from the past and the present.

Prerequisites: Beginning Art I and Beginning Art II.

Grade Level: 10-12. Fee for Set of Drawing Pencils

Course Number:

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**ADVANCED CERAMICS II****1 SEM—5 CREDITS**

Description: In this advanced ceramics class, the student uses their knowledge to complete a list of six requirements, each project receiving a total of three grades. The functional and nonfunctional requirements will challenge the imagination and skill level in hand building and wheel throwing.

Prerequisites: Beginning Ceramics and Advanced Ceramics

Grade Level: 10-12, \$20.00 fee for Clay and Glazes

Course Number:

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**ADVANCED CERAMICS III AND IV****1 SEM—5 CREDITS**

One semester each

Description: In Advanced Ceramics III, the student will use hand building techniques, alone or in a combination, to create original ceramic work. The student will need original ideas, some sketches, along with the knowledge of pinch, coil, and slab construction methods.

In Advanced Ceramics IV, the student will use wheel throwing techniques, alone or in a combination, to create a pitcher with a pulled handle, a jar, covered containers with different lids, a teapot, and a plate.

Prerequisites: Beginning Ceramics, Advanced Ceramics, and Advanced Ceramics II

Grade Level: 11-12, \$20.00 fee for Clay and Glazes

Course Number:

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## **BUSINESS**

### **INTRODUCTION TO BUSINESS**

**1 SEM—5 CREDITS**

Description: This course is designed to make available to all students an introductory study of business including: 1) an understanding and appreciation of the nature, scope, and functions of the business-economic systems in meeting consumer needs and wants; 2) an understanding of economic principles and desirable business practices which should be followed by consumers in the wise handling of their business affairs; and 3) an understanding and appreciation of career opportunities which are to be found in business occupations.

Prerequisites: None

Grade Level: 9-12

Course Number: 000811

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### **WORD PROCESSING**

**1 SEM—5 CREDITS**

Description: The course is designed for students to be able to operate a computer keyboard and 10-key pad with the touch technique. Students will be introduced to word processing, spreadsheets, database, and beginning computer literacy. Composition and proofreading skills and an employable keyboarding speed will be developed.

Prerequisites: None

Grade Level: 9-12

Course Number: 000813

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### **COMPUTER APPLICATION**

**1 SEM—5 CREDITS**

Description: Students will master Windows and Works in addition to learning about the Internet and CD-ROM technology. Students will learn how to make technology work for them as well as learning job-related skills.

Prerequisites: Word Processing or 35 WPM in Keyboarding 8

Grade Level: 9-12

Course Number: 000812

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**MULTIMEDIA****1 SEM—5 CREDITS**

Description: Students will learn how to create multimedia presentations and incorporate sound and graphics into PowerPoint, and the tricks of Adobe InDesign for advertising. Students will design web pages using FrontPage. Students will also learn to use the scanner, digital camera, capture live video, and use advanced graphics software.

Prerequisites: Word Processing or Computer Applications

Grade Level: 10-12

Course Number: 000822

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**BUSINESS MANAGEMENT****1 SEM—5 CREDITS**

Description: A business course designed to provide basic theory of business organization and management. The course gives a general overview of how a business operates. This class will teach the student how to write a business plan.

Prerequisites: None

Grade Level: 11-12

Course Number: 000852

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**BUSINESS TECHNOLOGY****1 SEM—5 CREDITS**

Description: Master the Office 2000 software used in the business world including Word, Excel, Access, and PowerPoint. Students will learn to surf the Internet for business purposes.

Prerequisites: Computer Applications

Grade Level: 11-12

Course Number: 000821

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**BUSINESS LAW****1 SEM—5 CREDITS**

Description: The study of the legal rights and responsibilities necessary to be informed and productive citizens, employees, employers, and consumers in our private enterprise economy.

Prerequisites: None

Grade Level: 11-12

Course Number: 000851

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**OFFICE TECHNOLOGY****1 SEM—5 CREDITS**

Description: This class will teach advanced computer applications including accounting on the computer, records management, and advanced word processing. Students will also learn business procedures needed in an office including handling mail, filing, business math, and work flow.

Prerequisites: Computer Applications or Business Technology

Grade Level: 11-12

Course Number: 000854

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**BUSINESS COMMUNICATIONS****1 SEM—5 CREDITS**

Description: Students learn non-verbal, verbal and oral forms of communication, develop oral presentation skills, and develop business telephone techniques. Required class for every college business major.

Prerequisites: World Processing or Computer Applications

Grade Level: 10-12

Course Number: 000853

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**ACCOUNTING I/II****1 SEM—5 CRED EA.**

Description: The study of the fundamental principles involved in the preparation and maintenance of financial records concerned with business management and operations. Students will also gain valuable lifelong skills in areas of payroll, depreciation, bank reconciliation, and analyzing transactions. You must sign up for both semesters.

Prerequisites: None

Grade Level: 11-12

Course Number: 000831

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**SCC COLLEGE ACCOUNTING****2 SEM—10 CRED.****3 COLLEGE CRED.**

Description: A course designed to help students acquire additional accounting knowledge of concepts, procedures and applications. Special emphasis is given to analyzing and interpreting financial information used in making managerial decisions. Students receive 3 hours of college credit through Southeast Community College. Tuition is paid at the current SCC rate.

Prerequisites: Beginning Accounting with a grade of 86% or higher. Instructor Permission

Grade Level: 12

Course Number: 000842

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## ENGLISH

### ENGLISH 9

**2 SEM—5 CRED EA.**

Description: English 9 involves learning the steps in the writing process including the 6 traits of writing. This course emphasizes 5 paragraph thesis essays as well as paragraph development. During the course, students will read *To Kill a Mockingbird*, *Of Mice and Men*, and *Romeo and Juliet* among other novels and short stories. This course also touches briefly on career exploration and creative writing with poetry.

Prerequisites: **REQUIRED OF ALL FRESHMEN**

Grade Level: 9

Course Number: 000111

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### ENGLISH 10

**2 SEM—5 CRED EA.**

Description: English 10 is designed to help students increase their vocabulary, expand writing skills, provide opportunities for exposure to literature related to many concepts and themes, and grow appreciation and understanding of the world in which they live. Students will study grammar units, short stories, poetry, drama, and novels. Students will also be required to write four paragraph essays. Some of the literary selections read will include *The Pearl*, *Julius Caesar*, and *Lord of the Flies*.

Prerequisites: **REQUIRED OF ALL SOPHOMORES**

Grade Level: 10

Course Number: 000121

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### ENGLISH 11

**2 SEM—5 CRED EA.**

Description: Junior English is designed to acquaint students with the development of literature in the United States from its founding days until the present, and to acquaint students with those authors who have had a significant impact on the literary movements in the United States. Students will increase vocabulary and expand writing skills, and experience a variety of writing assignments from creative writing to five paragraph persuasive essays. The state writing assessment will be given in both the fall and the spring semester, and state standard testing will also occur during this course.

Prerequisite: **REQUIRED OF ALL JUNIORS**

Grade Level: 11

Course Number: 000131

**ENGLISH 11R****2 SEM—5 CRED EA.**

Description: A similar course to English 11, only this is not college geared. This course will focus more on the skills needed for going into the world of work after graduation. You will still be expected to read selected literature works and write papers.

Prerequisites: Junior Standing; counselor and instructor permission

Grade Level: 11

Course Number: 000131

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**ENGLISH 12****2 SEM—5 CRED EA.**

Description: English 12 is a basic review of grammar, composition, and literary skills. A stronger emphasis is placed on skills needed for entering the world of work. This course involves a substantial amount of writing and reading including an 8-10 page research paper and several novels. This class also requires a resume and cover letter to be written to meet senior file requirements.

Prerequisites: Senior standing and instructor recommendation

Grade Level: 12

Course Number: 000141

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**COLLEGE PREP ENGLISH 12****2 SEM—5 CRED EA.**

Description: CP English 12 is a college preparation course which is intended to prepare students for college English classes. It involves development of advanced writing techniques and reading to a great extent. Five novels are covered. A written paper can be expected every other week. Students will write a 10-12 page research paper and make a presentation of that paper to the class by way of a PowerPoint presentation. This class also requires a resume and cover letter to be written to meet senior file requirements.

Prerequisites: Senior standing and instructor recommendation.

Grade Level: 12

Course Number: 000143

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**SCC COMPOSITION 100  
CREDITS**

**1 SEM—5**

**3 COLLEGE CRED**

Description: Composition 100 is a college level transfer class where students will write 10-12 papers ranging from observation papers to persuasive essays, and a research paper 10-15 pages in length. Before writing the research paper, students will tour Love Library at the University of Nebraska Lincoln in order to obtain research materials and learn college library search skills. Tuition is paid at the current SCC rate.

Prerequisites: Students must score a **20 on the English portion of the ACT and have a 92 average in junior English.** During the summer prior to the beginning of the course, students are required to read two novels which will be used as the basis for the first writing assignments. **Students also need instructor permission.**

Grade Level: 12

Course Number: 000145

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**SCC INTRODUCTION TO LITERATURE 108**

**1 SEM—5 CREDITS**

**3 COLLEGE CRED.**

Description: Introduction to Literature 108 is a college level transfer class in which students will read a wide selection of literary pieces. Students will read works such as *Wuthering Heights*, *Macbeth*, *Their Eyes are Watching God*, *The Great Gatsby*, and a variety of poetry and essays. Tuition is paid at the current SCC rate.

Prerequisites: Students must score a **20 on the English portion of the ACT and have a 92 average in junior English.** **Students also need instructor permission.**

Grade Level: 12

Course Number: 000146

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**JOURNALISM/YEARBOOK**

**2 SEM—5 CRED EA.**

Description: **This is a year-long course.** Students are responsible for putting together the school yearbook. Students will be expected to meet strict deadlines. Students learn to take digital pictures and write copy and captions. Students are expected to attend school events to make sure pictures are taken.

Prerequisites: **Students must have permission from the instructor, have a "B" average in English,** and be able to work under pressure, meet deadlines, and be able to **stay in the class for the entire year.**

Grade Level: 10-12

Course Number: 000995

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## FAMILY AND CONSUMER SCIENCE

### INTRODUCTION TO FAMILY AND CONSUMER SCIENCE    2 SEM—5 CRED EA.

Description: This course develops a wider, more comprehensive view of family and consumer sciences. The following areas of family and consumer sciences will be studied: food, nutrition, food safety, housing and home environment, clothing and textiles, consumer education, and relationships. Units of study within each area of F&CS are spread over the course of the year and no unit is repeated within the school year. This is a good class to get ready for the semester specialty classes. There is a required fee for the class.

Prerequisites: None

Grade Level: 9

Course Number: 000511

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### FOODS AND NUTRITION

**1 SEM—5 CREDITS**

Description: If you like to cook or want to learn, this is the class for you! Soups, pasta, meat preparation, pastry and cakes are some of the labs. Units on the methods of food preparation, food safety and sanitation, understanding and using the food pyramid, and setting a table are included. The etiquette unit meets the senior file requirement. There is a required fee for the class.

Prerequisites: Sophomore or above standing

Grade Level: 10-12

Course Number: 000551

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### ADVANCED FOODS AND NUTRITION

**1 SEM—5 CREDITS**

Description: Food science principles are studied and practiced in class as well as food safety and sanitation. Lab experiences are built on previous skills learned in beginning foods class. Microwave cooking and foreign foods are prepared. Students in this class participate in a community service project and a "Bake-Off" contest. A dining experience is offered. There is a required fee for the class.

Prerequisite: Foods and Nutrition

Grade Level: 10-12

Course Number: 000552

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**HUMAN DEVELOPMENT****1 SEM—5 CRED.**

Description: Infant Day, Toddler Daze, Preschool Week and Elementary School Experience are the special activities of this class. Prenatal development, birth methods, stages of development, birth defects, and parenting styles are studied. Learn about yourself by learning "stages" one goes through.

Prerequisites: Sophomore or above standing

Grade Level: 10-12

Course Number: 000555

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**HOUSING****1 SEM—5 CREDITS**

Description: Information about housing styles and housing alternatives during the life cycle will be covered in this class. Design labs offer the experience of designing interiors by using carpet samples, wall paper, paint, tech. A working knowledge of the elements and principles of design are used. Tours are a part of this class. The unit on leases meets the senior file requirement. Learn about the "smart house," a house in your future.

Prerequisites: Sophomore or above standing

Grade Level: 10-12

Course Number: 000556

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**FASHION HISTORY****1 SEM—5 CREDITS**

Description: In this course fashion history and cultures are examined. We will determine the many meaning of clothing while discovering what has led to today's clothing trends. , and why fabrics act/react like they do. Textile science labs will provide the opportunity to burn, dissolve and examine fabrics to better understand their properties. A variety of sewing skills will be developed. Students will select textiles or clothing projects to match their skill level. This is a course which allows expression of your creativity!

Prerequisites: Sophomore or above standing

Grade Level: 10-12

Course Number: 000553

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**CONSUMER EDUCATION****1 SEM—5 CREDITS**

Description: This is a basic life skills class where students learn to budget money for food, small appliances, cars, insurance and housing; develop meal planning and preparation skills; laundry skills; and goal setting for life after high school. Job search skills and job performance skills are included in the class.

Prerequisites: Sophomore or above standing

Grade Level: 10-12

Course Number: 000554

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**ADULT LIVING****1 SEM—5 CREDITS**

Description: This course is designed to assist students in dealing with decisions of adulthood. Topics will include relationships, parenting, family crises, budgeting, conflict management, and etiquette. Consumer education is an integral part of this course. Students are actively involved in many learning activities. This class meets several senior file requirements, so it is **recommended for all seniors**.

Prerequisites: Senior standing

Grade Level: 12

Course Number: 000543

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## FOREIGN LANGUAGE

### SPANISH I/II

**2 SEM—5 CRED EA.**

**Description:** Students will develop a fundamental understanding of the Spanish language. Basic sentence structure, parts of speech, and regular and irregular verbs in the present tense are covered. Students will develop a basic vocabulary related to clothing, numbers, the house, time, weather, the calendar, family relationships, and other topics of conversation. Culture is explored throughout the different chapters of the book. **A workbook fee is charged for this class.**

**Prerequisites:** None

**Grade Level:** 10-12

**Course Number:** 001221

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### SPANISH III/IV

**2 SEM—5 CRED EA.**

**Description:** Against a cultural backdrop that includes a discussion of jobs, entertainment, traditional Hispanic foods, and Spanish history and travel, students increase their ability to read and write in Spanish. Emphasis is on the study of stem-changing verbs, prepositions, possessive adjectives, comparison of adjectives, and the past or preterit tense including irregular verb forms. Geography of the Hispanic world is studied.

**Prerequisites:** Spanish I/II

**Grade Level:** 11-12

**Course Number:** 001231

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### SPANISH V/VI

**2 SEM—5 CRED EA.**

**Description:** Students increase their ability to read, write, and speak Spanish. A thorough review of verbs in the present and preterit tenses leads smoothly and naturally into a study of reflexive verbs and imperfect, present progressive and present perfect tenses. Students expand their ability to write sentences using reflexive, direct object and indirect object pronouns and increase their knowledge of Hispanic culture.

**Prerequisites:** Spanish III/IV

**Grade Level:** 12

**Course Number:** 001241

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## INDUSTRIAL TECHNOLOGY

### INDUSTRIAL TECHNOLOGY I/II

**2 SEM—5 CRED EA.**

Description: Students will be asked to build a series of projects which are of a problem solving nature. Projects include: CO2 vehicles, bridge construction, a lexan powered puller, sheet metal project, and a woodworking project. There is a required fee for the class.

Prerequisite: None

Grade Level: 10-12

Course Number: 000611

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### INDUSTRIAL TECHNOLOGY III/IV or Powerdrive

**2 SEM—5 CRED EA.**

Description: With the goal of a state championship, the students will build a student driven electric race car that will compete with other high schools.

Prerequisites: Industrial Technology I/II

Grade Level: 10-12

Course Number: 000611

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### INDUSTRIAL TECHNOLOGY V/VI

**2 SEM—5 CRED EA.**

Description: An individual study class in which a student decides on the projects they wish to study in depth.

Prerequisites: Two years of industrial technology classes and instructor permission.

Grade Level: 11-12

Course Number: 000611

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### ARCHITECTURAL DRAFTING

**2 SEM—5 CRED EA.**

Description: The student will develop a series of drawings that pertain to building construction. An example of this would be house plans.

Prerequisites: CAD Drafting

Grade Level: 10-12

Course Number: 000611

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**CAD DRAFTING****1 SEM—5 CREDITS**

Description: Computer Aided Drafting will use the Autocad program to draw machine parts. Drawings will involve the use of 3 view, oblique, isometric and auxiliary view representations. There is a required fee for this class.

Prerequisites: None

Grade Level: 10-12

Course Number: 000611

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**ADVERTISING/GRAPHIC DESIGN****2 SEM—5 CRED EA.**

Description: Students will be asked to design ads for television, radio and printed media. An art background is helpful, but not required. There is a required fee for this class.

Prerequisites: None

Grade Level: 10-12

Course Number: 000611

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**AUTOBODY I/II****2 SEM—5 CRED EA.**

Description: An introductory course for students wanting to explore vehicle repairing and repainting techniques. There is a required fee for this class.

Prerequisites: Industrial Technology I/II

Grade Level: 10-12

Course Number: 000611

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**AUTOBODY III/IV****2 SEM—5 CRED EA.**

Description: A further study of vehicle body repair. The student will be required to do paint matching and custom painting while learning the latest paint, metal and plastic repair developments. There is a required fee for this class.

Prerequisites: Autobody I/II

Grade Level: 12

Course Number: 000611

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## MATH

### **BASIC PRE ALGEBRA**

**2 SEM—5 CRED EA.**

Description: Basic Pre-Algebra is for students who need more instructions in mathematics before a formal Algebra program. This course will teach the basic concepts of mathematics and introduces Algebra concepts in a step-by-step approach. Concepts involved will include: whole numbers, decimals, rational number and fraction, basic operations, integers, exponents, square roots, Pythagorean theorem, conceptual geometry, graphing, and statistics.

Prerequisites: 8<sup>th</sup> Grade Math

Grade Level: 9

Course Number 000211-01

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### **BASIC ALGEBRA**

**2 SEM-5 CRED EA.**

Description: Basic Algebra teaches the basic concepts of Algebra in a step-by-step approach. This class is geared toward those students who need extra help grasping new concepts. These concepts will include: Intro to Algebra, linear equations, applications of algebra, exponents and polynomials, coordinate plane, factoring, statistics, geometry, and quadratic equations.

Prerequisites: Teacher recommendation

Grade Level: 10

Course Number 000221

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### **Consumer Math**

**2 SEM-5 CRED EA.**

Description: Introduction to consumer math skills with a focus on the skills needed in everyday math. Topics include: buying/renting a home, paying utilities and daily bills, loans and loan organizations, credit cards and their use, stocks and bonds, getting a job, etc.

Prerequisites:

Grade Level: 9-12

Course Number 000231

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**PRE-ALGEBRA****2 SEM-5 CRED EA.**

Description: Pre-Algebra is a bridge between basic mathematics and algebra. Students move from working problems that are mostly numerical to solving those that require more advanced reasoning skills that require working with variables. Students will be introduced to a variety of practical reasoning skills which are used in other classes and outside of school.

Prerequisites: Instructor recommendation

Grade Level: 9-12

Course Number 000251

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**ALGEBRA 1/2****2 SEM-5 CRED EA.**

Description: This course reviews the concepts covered in Pre-Algebra and delves into more detail in the ways those concepts are used, and expands them into more complex operations and problem-solving skills that prepares the student for Geometry and Algebra.

Prerequisites: Pre-Algebra

Grade Level: 9-12

Course Number 000253

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**ALGEBRA 3/4****2 SEM—5 CRED EA.**

Description: This course includes solving and graphing equations and inequalities, writing equations of lines, solving systems of equations involving 2 and 3 variables, evaluating determinants, solving systems of inequalities, linear programming problems, operations with matrices, and solving systems of equations using matrices, mathematical operations with polynomials, finding the zeros of polynomials, operations with radicals, laws of exponents, solving fractional equations and radical equations, laws of exponents and logarithms, solving exponential and logarithmic equations, sequences and series, probability and combinatorics, and statistics and data analysis, trigonometry, finding the values of trig functions, and solving right and non-right triangles.

Prerequisites: Algebra 1/2

Grade Level: 10-12

Course Number: 000257

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**BASIC GEOMETRY****2 SEM—5 CRED EA.**

Description: Basic concepts of Geometry—properties of figures, coordinate plane, proportions and similarity, Pythagorean Theorem, area and perimeter, place of figures and solids, and volume of solids.

Prerequisites: Basic Algebra

Level:

Course Number: 000231

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**GEOMETRY****2 SEM—5 CRED EA.**

Description: The course covers the following topics: inductive reasoning; finding number patterns; properties of angles, triangles, and quadrilaterals; finding lengths of segments, measures of angles and arcs, areas of plane figures; Pythagorean Theorem; surface area and volume of different solids; similarity, ratio, and proportion involving figures; trig ratios and values; solving triangles using the trig ratios; transformations of geometric figures including translations, reflection, rotation, and dilation; and deductive reasoning including more flowcharts and writing two-column proofs.

Prerequisites: Algebra 1/2

Grade Level:

Course Number: 000255

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**ADVANCED MATH****2 SEM—5 CRED EA.**

Description: This course covers the following topics: linear relations and functions, the nature of functions, graphing functions, and determining the zeros of functions; trigonometry which includes solving triangles, graphing trig functions, verifying trig identities, solving trig equations, using vectors, graphing polar equations, and complex numbers in polar form; equations and graphs of conic sections, exponential functions, and logarithmic functions; combinatorics and probability, statistics and data analysis; and an introduction to Calculus including limits and derivatives.

Prerequisites: Algebra 3/4

Grade Level: 11-12

Course Number: 000241

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**SOUTHEAST COMMUNITY COLLEGE: COLLEGE ALG 2 SEM—5 CRED EA.  
3 COLLEGE CRED.**

Description: College Algebra is a college transfer class that covers the following topics: analyzing functions and their graphs; solving equations and finding their intercepts and zeros; finding zeros and graphing polynomial and rational functions, solving and graphing exponential and logarithmic functions; solving systems of equations and inequalities and linear programming problems; and operations with matrices and determinants and their applications. Students will use a graphing calculator to graph and solve equations and functions. Each topic will also include a number of application problems using equations and applications of statistics and data analysis. Current college tuition fees apply.

Prerequisites: 86% or above in Advanced Math  
ACT math section score of 20 or above

Grade Level: 12

Course Number: 000291

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## MUSIC

### SENIOR HIGH BAND

**2 SEM—5 CRED EA.**

Description: Instrumental music class for students in grades 9-12.

1<sup>st</sup> Quarter: Marching season requires marching skills and memorization of music with several required parade performances on the weekend.

2<sup>nd</sup> Quarter: Begin concert band music with Veteran's Day concert and Holiday Concert performances and marching music for Star City Parade.

3<sup>rd</sup> Quarter: Pop's Concert preparation and work begins on District Music Contest literature.

4<sup>th</sup> Quarter: District Music Contest, graduation concert selections, and Memorial Day performance.

**ALL QUARTERS INVOLVE RHYTHMS AND RANGES OF HIGH SCHOOL MUSIC LEVELS.**

**OTHER ACTIVITIES AVAILABLE THROUGH BAND:** These are activities that are NOT part of the grade for band as a class, but you **MUST** be a member of band to be able to participate in these groups: Jazz Band, University Honor Bands, All-State, pep band, and District Music solos or duets, etc.

**GRADING:** 50% individual performance/ 20% sectional/ 20% written/ 10% rehearsal behavior.

**UNEXCUSED MARCHING AND CONCERT PERFORMANCES WILL LOWER FINAL BAND GRADE!**

**Prerequisites:** Preferred one to two years of instrument lessons or RC summer band lesson program. Students must contact instructor to be evaluated and receive appropriate placement. Rental fee is charged for the use of a school-owned instrument. Black shoes must be purchased as part of band uniform. A uniform cleaning fee is assessed.

Grade Level: 9-12

Course Number: 001051

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**CHOIR****2 SEM—5 CRED EA.**

Description: Concert Choir is a vocal music class for 9-12<sup>th</sup> grade students who are interested in singing.

Activities include:

1<sup>st</sup> Quarter: singing the Star Spangled Banner with the band for Homecoming. Voice checks to monitor ability to match pitch and voice range.

2<sup>nd</sup> Quarter: Conference Choral Clinic Music, preparing a small group tossing for the Veteran's Day Celebration and preparation of Holiday concert music.

3<sup>rd</sup> Quarter: Pops Concert music and preparation of District Music Contest literature.

4<sup>th</sup> Quarter: District Music Contest and Graduation Performance literature.

All Quarters involve examining and performing a variety of literature from different periods and ranges of difficulty, sight reading, learning to read rhythms and using solfege, and exercises to improve vocal quality and development.

Prerequisites: Interest in vocal music and a commitment to attend performances.

Grade Level: 9-12

Course Number: 001055

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## PHYSICAL EDUCATION

### PE 9

**1 SEM—5 CREDITS**

Description: The physical education curriculum includes a wide spectrum of activities in team and individual sports. Emphasis is placed on skillful participation in team sports and lifetime activities promoting physical fitness.

Prerequisites: Required for all freshmen

Grade Level: 9

Course Number: 001312

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### HEALTH

**1 SEM—5 CREDITS**

Description: To provide, understand and appreciate how a person can develop and enjoy a healthy and satisfying life style. In order to do this, students look at and study wellness, the human system, reproduction, nutrition, and how someone goes about developing and practicing a healthy lifestyle.

Prerequisites: Required for all freshmen

Grade Level: 9

Course Number: 001311

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### WEIGHT CONDITIONING

**1 SEM—5 CREDITS**

Description: Introduces students to weight conditioning techniques which develop strength, build explosive power and speed, and develop the ideal body size.

Prerequisites: Pass Level 1 certification exam in PE 9

Grade Level: 10-12

Course Number: 001391

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### ADVANCED PE

**1 SEM-5 CREDITS**

Description: This class includes many activities including the following; lacrosse, flag football, volleyball, basketball, softball, soccer, and floor hockey.

Prerequisites: Pass 9<sup>th</sup> grade PE with at least a B grade average

Grade Level: 10-12

Course Number:

**LIFETIME ACTIVITIES****1 SEM-5 CREDITS**

Description: This class includes many activities including the following; archery, badminton, ultimate football, whiffle ball, paddle ball, and eclipse ball.

Prerequisites: Pass 9<sup>th</sup> grade PE with at least a B grade average

Grade Level: 10-12

Course Number:

**RAYMOND CENTRAL PHYSICAL EDUCATION****UNIFORM REQUIREMENTS**

- T-shirt and shorts in good taste. No alcohol or cigarette advertisements allowed. Proper shoes must also be worn! Follow school dress code.
- No cut-off shorts or shirts with holes in them allowed. No hand or wrist jewelry for your safety.
- Students who do not dress out will be required to participate and receive only  $\frac{1}{2}$  the points they earn that day.

**CLASS EXPECTATIONS**

- Be on time. (Students who are tardy will lose  $\frac{1}{2}$  their point for the day.)
- Be prepared. (See A., # 2)
- Be Respectful. (This includes teachers, other students, facilities, and equipment.)
- Follow instructions
- Bring your OWN lock. Please do not share a locker.
- Everyone will warm up and stretch at the beginning of class.
- Keep the safety of yourself and others in mind.
- No one leaves the gym until all equipment is picked up and put away.

## SCIENCE

### PHYSICAL SCIENCE

**2 SEM—5 CRED. EA**

### LIFE SCIENCE

**2 SEM—5 CRED. EA**

Description: This is a practical biology class which consists of lecture and labs covering the following topics: ecology; cellular biology; genetics; diversity of life, plants, animals, and human biology.

Prerequisites: None

Grade Level: 10

Course Number: 000311

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### BIOLOGY

**2 SEM—5 CRED. EA**

Description: This is a college preparation lecture and lab course which centers around the following themes: ecology; cellular biology; genetics; diversity of life, plants, animals, and human biology.

Prerequisites: None

Grade Level: 10

Course Number: 000325

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### ADVANCED BIOLOGY

**2 SEM—5 CRED. EA**

Description: The course centers around four main themes including biochemistry, genetics, human anatomy, physiology, and ecology. This is an advanced placement course offered to students having an interest in biological topics. Upon completion of this course, students have the option of taking an Advanced Placement biology test through which they may be able to receive college credit, depending on their score. An understanding of chemistry is essential for this course. This course uses a college biology textbook and AP labs.

Prerequisites: Chemistry and instructor permission.

Grade Level: 11-12

Course Number: 000353

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**APPLIED CHEMISTRY****1 SEM—5 CREDITS**

Description: This course is offered to juniors and seniors. It is an elective intended to expand basic chemistry knowledge. Students will develop a basic understanding of specific chemical reactions as they relate to career. This course is most beneficial to students planning to attend a technical school.

Prerequisites: Junior or Senior standing

Grade Level: 11-12

Course Number: 000351

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**APPLIED PHYSICS****1 SEM—5 CREDITS**

Description: This class is directed toward the student planning to attend a technical school needing a basic knowledge of physics for the work place. Topics to be covered include: force and motion, work and machines, energy, and electronics.

Prerequisites: Junior or Senior standing

Grade Level: 11-12

Course Number: 000352

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**CHEMISTRY****2 SEM—5 CRED. EA**

Description: This is a college preparatory class. Inorganic and organic concepts will be taught. It will give the students the skills and knowledge to successfully complete an introductory chemistry course in college.

Prerequisites: Algebra 1/2 and strongly recommend enrollment in an advanced algebra class.

Grade Level: 11-12

Course Number: 000331

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**PHYSICS****2 SEM—5 CRED. EA**

Description: This course is college preparatory. Mechanics, optics, astronomy, and electromagnetism are major topics covered. It will give the students the skills and knowledge to successfully complete an introductory physics course in college. Mathematics are an integral part of physics.

Prerequisites: Enrollment in or completion of Advanced math.

Grade Level: 12

Course Number: 000341

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## SOCIAL STUDIES

### AMERICAN GOVERNMENT

**1 SEM—5 CREDITS**

Description: The study of the American government system and its political operations. It includes how each branch of our government operates and how they relate to the other two branches. It also includes a study of the rights, responsibilities, and duties of a citizen of the United States. **It is required that all seniors take and pass this course in order to graduate.**

Prerequisites: Senior standing

Grade Level: 12

Course Number: 000

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### AMERICAN HISTORY

**2 SEM—5 CRED. EA**

Description: The study of America's history from pre Civil War to the present. Students learn about the social, economic, and political issues which have shaped American lives. Topics cover the events, people and attitudes of the people of the United States and the impact of these one our life style today.

Prerequisites: Sophomore standing

Grade Level: 10

Course Number: 000

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### CURRENT ISSUES

**1 SEM—2  $\frac{1}{2}$  CRED.**

Description: An *issue* is a dispute between two or more parties, or a point of debate or controversy. *Current* is the present time. This class encourages students to broaden their frame of reference and look at information/situations/issues from a variety of perspectives, and form an applied economics business. The third sector of the class helps prepare students to enter the changing workplace. The skills of team work, problem solving and self-management are examined. **All seniors are required to take and pass this class in order to graduate.**

Prerequisites: Senior Standing

Grade Level: 12

Course Number: 000

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**ECONOMICS****1 SEM—2 ½ CRED.**

Description: This course describes the basic characteristics of the American economic system; demonstrates how fundamental economic concepts operate; fosters appropriate life, student and decision-making skills; enables students to explore consumer issues and aspects of personal economics, and develops an understanding of economic principles that influence business decisions. **All seniors are required to take and pass this class in order to graduate.**

Prerequisites: Senior Standing

Grade Level: 12

Course Number: 000

**PSYCHOLOGY****1 SEM—5 CREDITS**

Description: This is an introductory class that covers the many facets of the science of psychology. Students will study a variety of topics including learning processes, the development of personality, mental and emotional problems, the psychology of group behavior and social attitudes.

Prerequisites: None

Grade Level: 11-12

Course Number: 000

**SOCIOLOGY****1 SEM—5 CREDITS**

Description: Sociology is the study of the behavior of people in groups. In this course, students will learn about the social development of individuals in a society and consider the effects that culture, language and status have on development. This course will focus on social life in our modern society. Students will study the way groups are formed, the results of group behavior and the effect of that behavior on our culture.

Prerequisites: None

Grade Level: 11-12

Course Number: 000

**WESTERN CIVILIZATION****2 SEM—5 CRED. EA**

Description: This course cover the study of European History from Mesopotamia to Modern Europe. Students learn about the shaping of the present day culture and its impact on America today.

Prerequisites: None

Grade Level: 11-12

Course Number: 000

## SPEECH

### COMMUNICATION ARTS

**1 SEM—5 CREDITS**

Description: In order for us to communicate effectively with others, we must first understand ourselves, know our own strengths, weaknesses, likes and dislikes and be aware of how people react to us when we speak. We also need to be aware of the many different types and ways in which people use the communication arts to express ideas. This class will explore all of these factors in order to help students become better communicators. **It is required that all sophomore students take and pass this class.**

Prerequisites: None

Grade Level: 10

Course Number: 000

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### COMPETITIVE SPEECH I

**1 SEM—5 CREDITS**

Description: This class is not only designed for the student who wants to learn the basics of communicating, but also wants to experiment with these methods outside the classroom. During this class, student will participate in up to three competitive contests, practices, and Speechfest, which is open to the public.

Prerequisites: None

Grade Level: 9-12

Course Number: 000

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### COMPETITIVE SPEECH II

**1 SEM—5 CREDITS**

Description: This class is for students who wish to polish skills already acquired in Competitive Speech I. Students will participate in up to four competitive contests, practices and Speechfest which is open to the public, plus critique and judge other Speech I students.

Prerequisites: Competitive Speech I

Grade Level: 10-12

Course Number: 000

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**Beginning Theatre I****1 SEM—5 CREDITS**

Description: this class is for students who are interested in drama. Students will be introduced to the foundations of acting through the use of exercises, assignments, prepared monologue, scene work, play attendance, and written assignments.

Prerequisites: None

Grade Level: 9-12

**CREATIVE PROBLEM SOLVING****CREATIVE PROBLEM SOLVING****1 SEM—5 CREDITS**

Description: In this course we will examine the fundamental principles of the creative problem solving process. Students will examine various learning styles while determining the style(s) for which they are best suited. Students will participate in many improvisational activities, logic problems and activities in which the principles of creative problem solving must be applied. Students may select to participate in competitive creative problem solving programs.

Prerequisites: Instructor permission

Grade Level: 9-12

Course Number: 000