

North Andrew 2014- 2015

Course Offerings and Descriptions

Agriculture

Students who enroll in the agriculture department will be exposed to various aspects of the FFA Organization and how it functions. Along with this, students will be involved in various Contest Development Events and participation is highly encouraged. The agriculture department also stresses the importance of maintaining a Supervised Agricultural Experience Program, where a student is responsible for maintaining a record book that goes along with their various project. This will be explained to students as they enroll in the program and at what level. A student wishing to be in the FFA must be enrolled in a agriculture class and participate in the activities/fund raisers as set up by the chapter. This will also include semester courses, where as if the student would come in during the spring semester and wish to join FFA, they will be required to pay the FFA dues along with the minimum of the fall fundraising activity. Students will also be required to complete a Technical Skills Attainment test after enrolling in their third agriculture class. Students will need to consult with the instructor if they are enrolling in a class where they have not completed the prerequisites.

AGRICULTURE SCIENCE I

PREREQUISITE: None

This is a basic class in agriculture for students wishing to learn about agriculture and advance in the FFA. The class includes lessons in FFA history, agriculture careers, parliamentary procedure, shop safety and a basic unit on welding and woodworking. Other areas will focus on beef, sheep, swine and dairy cattle. A section on record books and Supervised Agriculture Experience Programs will also be discussed. It is intended for first year freshmen, but upperclassmen who are interested in the FFA and are unable to take the advance courses may be admitted after discussion with the instructor.

AGRICULTURE SCIENCE II

PREREQUISITE: Ag I

A course designed for the instruction in plant science, soils, entomology, careers and leadership and further instruction in the Supervised Agricultural Experience Program. Other areas which could be incorporated in this class are horticulture with the use of the school greenhouse. This course will also include a section on shop tools and safety, welding and project construction.

HORTICULTURE/LANDSCAPING

PREREQUISITES: Ag I and II

This is a yearlong course where the school greenhouses will be incorporated into the curriculum. Students will be able to identify floriculture and nursery plants through the use of slide. Other activities will include constructing a terrarium, learning flower arranging, making corsages and Christmas wreaths. Students will be exposed to a unit on plant science and how plants are important to agriculture. They will also be exposed to landscaping theories and how to do landscaping for various applications. Landscape drawing plans will be required and hands on will be

incorporated if the opportunities present themselves. Students will spend time in the greenhouse growing poinsettias in the fall and in the spring dealing with spring annuals, vegetables and constructing hanging baskets. Students will also help in the marketing of these products. Lawn and lawn care will be studied and incorporated as time allows.

AGRICULTURE STRUCTURES 1

PREREQUISITE: Ag I and II

This class covers safety, use of the various shop tools, figuring bill of materials, metal selection and welding skills. A planned project construction is part of the class and the student must furnish the materials for their project. Students are allowed to construct both wood and metal projects.

AGRICULTURE STRUCTURES 2

PREREQUISITE: Ag I, II and Structures I

This is an extension of Structures I, where students will be allowed to further their skills and knowledge in the area of project construction. Students are allowed to construct both wood and metal projects.

WILDLIFE MANAGEMENT

PREREQUISITE: Ag I and II

This course is offered in the fall and will include the history of fish and wildlife management in Missouri. It will also study careers in the wildlife industry, various laws for the wildlife industry. A unit on deer, quail, turkey, bald eagle and bass will be discussed. A refresher on the hunter education will be included, along with the current code book. Trespassing laws will also be discussed as how it related to wildlife.

ANIMAL SCIENCE

PREREQUISITE: Ag I and II

This is a semester course for students interested in the production, selection and husbandry of agriculture related animals such as beef, swine, dairy, and sheep. It will include the study of these animals as well as genetics and feeding. Along with this, refreshed information of the various breed of livestock, selection and parts will be include. Livestock, Dairy, Equine and Poultry judging may be incorporated into this unit.

AGRICULTURE BUSINESS AND ECONOMICS

PREREQUISITES: Ag I and II

This is a semester course which will include careers in agriculture and how agriculture functions as a business. The course will include goal setting, balance sheets and how to interpret them, land and its importance, cash flow preparation, marketing of agriculture products, supply and demand, and various economic principles.

Art

ART I

PREREQUISITES: None

The study of visual art is an essential component of a well-rounded education. Studying art as a discipline and producing visual art not only stimulate and foster creativity and higher order thinking, but also serve as excellent means of transmitting culture and enhancing communication. Art I is a yearlong course designed to introduce students to all kinds of art and ways to look, analyze, judge, and to create it. Class time will be split between creating and responding to works of art. Students will explore a variety of media and processes as they learn to successfully express themselves and communicate ideas.

EXPLORING PAINTING

PREREQUISITES: Art I

Exploring Painting is a semester course. Students will explore various painting media, which may include watercolor, acrylic, tempera and various painting techniques and processes. A specific number of completed projects and one report will be required each quarter. Students will also keep a sketchbook for weekly drawing assignments.

3D DESIGN

PREREQUISITES: Art I

This semester course deals with art in its 3-Dimensional form. A variety of mediums will be explored, which may include textiles, ceramics, paper mache, wire sculpture and more. Students will participate in a wide range of experiences using additive or subtractive sculptural techniques designed to build artistic and creative confidence. An appreciation for art from various cultures will be developed.

Business/ Computer

COMPUTER APPLICATIONS

PREREQUISITES: None

Computer Applications is a one-year course. Upon completion of this course, students will have an understanding of terminology and ethical issues associated with computers, be comfortable with the Windows operating systems, be proficient in word processing, spreadsheets, and presentation software. Students will also have a fundamental understanding of database software. Students will create presentations using Microsoft PowerPoint, which will utilize graphics and sound files. Students will be introduced to using the Internet. Students will be able to identify topics, which can be researched on the Internet, and those that should be researched elsewhere.

INTRODUCTION TO BUSINESS

PREREQUISITES: None

This is a basic business course designed to acquaint students with the activities associated with a business. Students will gather a basic understanding of general business, economics, entrepreneurship, business communications, business ethics, the government's role in

business, marketing, and business finance. Each of these topics is then covered in further detail. Overall, the course gives students a broad exposure to business operations.

YEARBOOK

PREREQUISITES: grades 10-12. Prior approval with the instructor

This course is designed for students who have an interest in preparing printed publications using a computer. The class primarily plans, designs and produces the school yearbook. Basic digital photography is covered

ACCOUNTING

PREREQUISITES: None

Course curriculum is designed to provide students a strong foundation in accounting principles. Students will learn what business transactions are and how accountants use a double-entry system (debits and credits) to keep track of these transactions. Next students will study the complete accounting cycle of recording transactions, preparing financial statements, and “closing the books” for small, single-owner service and merchandising businesses. This course prepares students for post-secondary accounting courses.

PERSONAL FINANCE

PREREQUISITES: 12th grade

Personal Finance is a one-semester course designed to help students understand the impact of individual choices on occupational goals and future earnings potential. Students will design personal and household budgets; simulate use of checking and saving accounts; demonstrate knowledge of finance, debt, and credit management; evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions

English

ENGLISH I

PREREQUISITES: None

This course will focus on the writing process incorporating grammar and punctuation. New vocabulary words will be introduced weekly. Students will read a variety of works of literature and be able to discuss and write about the various selections. Students will review grammar, mechanics, and usage rules and practice their writing, reading, speaking, and listening skills.

ENGLISH II

PREREQUISITES: English I

English II includes studies of literature, various forms of writing, grammar skills, and a research paper utilizing a standardized form such as the MLA. The literature studies may include, but is not limited to short stories, poetry, non-fiction, drama, Arthurian legends, and novels. Students will independently read and do project(s) over a novel of their choosing from a provided list. Weekly vocabulary lists are also to be expected.

MYTHOLOGY

PREREQUISITES: English II

This course is designed for the student interested in World Mythology and the role it has played – and continues to play – in society. Overall, this course will include:

- Creation myths and traditional hero myths from various cultures such as Greece, the Middle East, the Far East and the Americas.
- Discussion of male and female roles in mythology.
- Analysis of myths' purpose(s), function(s) and characteristics cross-culturally.
- Awareness of the presence of mythology within our own culture.
- Comparisons of myths.

A basic understanding of common and notable gods and goddesses

ADVANCED COMPOSITION

PREREQUISITES: English II

This class is geared toward the “college bound” student, as much of the work mirrors that of college freshman composition classes. A variety of writing is done, some very structured like research papers and other more creative, such as poetry and short stories. Work is also done on improving and expanding vocabulary. This class is open to juniors and seniors

APPLIED COMMUNICATIONS

PREREQUISITES: English II

Emphasis is placed on communication skills needed in day to day life; applying for jobs, communicating in the workplace, living on your own, planning recreation, etc. Vocabulary and spelling is worked on every week and project activities are required.

AMERICAN LITERATURE

PREREQUISITES: English II

This is a survey class of American literature from the 1500's to the present. It includes essays, letters, poetry, short stories, novels, and plays and is covered chronologically. The course work includes reading from the text, novels, and supplemental materials. This is especially good for students planning to continue their education, as students will, in addition to learning more about American literature, further develop their vocabulary, writing skills, research skills, and cooperative skills. This class is open to juniors and seniors.

ENGLISH LITERATURE

PREREQUISITES: English II and (American Literature Recommended)

This is a survey class of the world's literature. Much of the material in it would be classified as English literature, but other works from Germany and Russia are included, as well as the classics. The material is presented chronologically from the early British period (800BC) to the present day. The course work includes essays, letters, poetry, plays, short stories, and novels. The text, supplemental materials, and novels will be used. This is an excellent class for students planning to attend college, as much of the material covered will be a good introduction for more advance classes. The students will have projects which develop vocabulary and research skills. They will be writing papers which will help prepare them for college level classes. This class is open to juniors and seniors.

Family and Consumer Science

FAMILY & CONSUMER SCIENCE I

PREREQUISITES: None

This class is divided into units featuring the Future Homemakers of America organization, personal management, clothing management, resource management, parenting and child development education, and nutrition education and food management. The student will recognize the need for and ways of self-improvement in appearance and personality; make a garment using a pattern; demonstrate knowledge of beginning consumer skills and related decision making; will be able to demonstrate a knowledge of basic child care procedures, safety precautions, and will be able to make activities and toys that cost little or no money to entertain and educate children; and be able to prepare simple snacks and meals in an efficient way using the Food Guide Pyramid.

FAMILY & CONSUMER SCIENCE II

PREREQUISITES: FACS I

This class is divided into the same basic units of FACS I. Emphasis is placed on food preservation and meal management, more advanced clothing skills, more advanced child development and parenting skills, personal and resource management of finding and keeping a job.

HOUSING/FAMILY RELATIONS

PREREQUISITES: None

This class prepares the student to understand the nature, function and significance of human relationships within the family/individual units. It includes instruction in the concepts and principles related to various family living conditions, including abuse prevention; the establishment and maintenance of relationships; the preparation for marriage, parenthood and family life; and the socialization and developmental needs of individuals.

CHILD DEVELOPMENT

PREREQUISITES: None

In this semester course students will gain an understanding of the physical, mental, social and emotional growth and development of children from birth to age 6 as well as their care and guidance. Units of study will include pregnancy and prenatal development, parenting, child development principles, child guidance principles, health and safety and careers in child development. Students will do extra projects each quarter with the opportunity to observe children, plan activities and have actual experiences with children and their parents.

PARENT DEVELOPMENT

PREREQUISITES: None

This course helps students build skills in decision-making, family relations, and nurturing children's development. Emphasis is on the joys and challenges of parenthood.

WORLD FOODS/ FOOD ART

PREREQUISITES: FACS 1

This upper level instructional program is designed to extend competencies gained in a past food and nutrition course. The first semester will focus on different cultural foods from around the world. Students will gain knowledge of different ingredients, spices, and cooking techniques. The second semester will emphasize creative food preparation for family and guests using a combination of convenience and "made from scratch" recipes. Focus on the art of creative cooking, adding finishing touches to food, selecting and preparing foods to give as gifts.

Foreign Language

SPANISH I

PREREQUISITES: C average student

This course is focused on the ability to understand and speak a minimal amount of Spanish. The student will learn common words and phrases, and establish a foundation in the event of any desire to pursue the language later in life. Students will learn the four skills of listening, speaking, reading and writing within a minimum period of time, and in a way that makes learning the language a meaningful activity. Presentation will be on the contemporary Spanish-speaking world and its culture.

SPANISH II

PREREQUISITES: C or better in Spanish I

This course focuses on broadening the student's knowledge of Spanish and communication better in Spanish. The students will extend their vocabulary and grammatical knowledge. They will utilize many short readings on culture, which are used to teach them about the Hispanic world.

Industrial Arts

EXPLORING TECHNOLOGY

PREREQUISITES: none

This course is built around a general theme of problem solving. The course demands outcomes which require a student to deduce new and unique ways to create solutions to various problems. The limitations are few and the possibilities are endless as the students compete against one another for the right to say they are the best.

We expect the students to gain an understanding of how to look at various problems from multiple perspectives. The students will be familiarized with the problem-solving format and how it applies to business and industry in today's society. The students may, or may not, in future years need to call upon their problem-solving skills in an industrial-type setting. Even if they do not, their lives will be more functional when they are able to take a situational problem and solve it logically.

Students will be financially responsible for the projects they make (a typical year in this costs 50.00).

WOODS I

PREREQUISITES: Exploring Technology

This course builds on the concepts mastered in Exploring Technology and takes the students one step farther. The students must not only reproduce projects assigned by the teacher in logically sequential manner, but must also design and create woodworking projects which are structurally sound as well as meet a need in the student's life.

We expect the students to gain an understanding of topics relevant to the student's present and future needs. We expect the students to gain practical skills and a general understanding of how to use tools, machines, processes and energy to lead a productive life in society. The student will establish the needed information to gain opportunities to further their vocational and technical fields of study.

Students will be financially responsible for the projects they make.

WOODS II

PREREQUISITES: Woods I

This course allows the student complete freedom to create projects which they desire to make. Lending on the skills they have previously attained in Exploring Technology and Woods I the student will design these projects, then build them.

Students will be financially responsible for the projects they make.

FACILITY MAINTENANCE

PREREQUISITES: Exploring Tech.

Students who enroll in this class will aid North Andrew in its never-ending attempt to maintenance or facility. You will be asked to perform tasks such as but not limited to: sweeping, building, painting, cleaning, organizing, etc. This is a class where there is no financial burden on the student.

FACILITY MAINTENANCE CONSTRUCTION

PREREQUISITES: Facility Maintenance

Students who enjoyed Facility Maintenance can take this class to better develop their ability to solve problems in a school environment with design. Students will solve problems for teachers and staff by building solutions.

This is a class where there is no financial burden on the student.

Math

ALGEBRA A

PREREQUISITES: None

The first half of Algebra 1

ALGEBRA B

PREREQUISITES: Algebra A

The second half of Algebra 1

ALGEBRA I

PREREQUISITES: NONE

Students use variables to solve equations and simplify expressions. An emphasis is placed on graphing using a coordinate plane. Students will learn to factor equations and will explore quadratic and exponential functions. Hands-on activities will involve the use of computer programs that help reinforce concepts being discussed.

GEOMETRY

PREREQUISITES: Algebra I

This class studies geometrical vocabulary like points, lines, planes, ray, angles, etc. Reasoning and proofs are an integral part of the process. Parallel lines, triangles, quadrilaterals, similarity, special triangles, circles, surface area, and volume are all areas of study. Hands-on activities and the use of technology to model relationships are also important components of this class.

ALGEBRA II

PREREQUISITES: Algebra 1 & Geometry

This class continues exploring Algebra. Concepts covered range from solving systems of equations, conic sections, linear relations and functions, matrices, polynomials, and the basics of trigonometry. There is an emphasis on utilizing graphing calculators to explore the linear relationships.

ALGEBRA III

PREREQUISITES: Algebra II

This course covers advanced Algebra concepts, functions and graphs, exponential and logarithmic functions, and discrete mathematics. Again, exploration of graphs using graphing calculators is emphasized.

Music

HIGH SCHOOL CHORUS

PREREQUISITES: None

This is a performance class. Students can participate in several performances. Students must be interested in singing, and in learning harmony or part-singing. This class will be performing many different styles of music from classical to pop. During the music contests in the spring, students prepare either a solo or be a part of an ensemble group for an in-class grade.

7-12 BAND

PREREQUISITES: Minimum of 2 years of school band or private lessons or both.

This course is a continuing study of tone production, techniques, etc. it is combined with the 7th and 8th grade band. Much emphasis is placed on performances such as various concerts, marching band, district and state music contests, solos, and ensembles.

PEP CLUB BAND I

PREREQUISITES: None

Beginner class for guitar. Learn how to read music notation, tablature, understanding of theory and fundamentals. Mandatory to play at Christmas and Spring concerts.

PEP BAND II

PREREQUISITES: 2 years of Pep Band I, 1 year of Pep Band I and test out at the end of year, OR prior private lessons
Advanced reading of music, theory, tablatures, and improving technique on playing guitar. Mandatory to play at Christmas and Spring concerts.

CONTEST BAND

PREREQUISITES: High School
Same as 7-12 Band. Mandatory to play at District Music Contest as well.

BACH, BEATLES & BEYOND

PREREQUISITES: Juniors and Seniors only

This is a basic introduction to fundamental music elements and different periods in music history. Students will acquire an overview of many styles, cultures, social uses and respect for a wide range of music.

PE/Health

HEALTH

PREREQUISITES: None

This course presents students with a clear look at the health issues facing humanity today. Students begin by evaluating their own level of health and move into areas of health risks, nutritional needs, exercise, drugs, self-care, environment, and safety. This is a hands-on course where students learn to take charge of their own health by practicing preventative health habits.

HIGH SCHOOL PHYSICAL EDUCATION

PREREQUISITES: None

This course is an introduction to learn basic skill and movement by participation and instruction in physical education, physical fitness, and health. Students will also be required to learn and participate in a variety of team and individual sports.

FITNESS TRAINING

PREREQUISITES: None

This class is designed to provide each student with the knowledge needed to understand the importance of strength and fitness training. Students will learn how to safely and correctly use exercise and weightlifting equipment. Students will understand the importance of setting goals for personal improvement and achievement, and will leave the class with a lifelong understanding of how to maintain adequate physical fitness for a healthy lifestyle.

Science

PHYSICAL SCIENCE

PREREQUISITES: None

The purpose of this course is to allow students to explore two branches of Science: Chemistry and Physics. Each area of study is covered in detail. The course is designed to review advanced material. The students will be able to develop an understanding of Science in general and gain information which will guide them into selecting more advanced courses within the area of their interest.

CHEMISTRY/PHYSICS

PREREQUISITES: Algebra II with a B Average

Chemistry is a study of chemicals and their reactions. Problems are solved using Algebra. There are hands on activities in the laboratory. A major lab project is required.

ANATOMY/GENETICS

PREREQUISITES: Biology

Students will review the human body plan beginning with the skeletal and muscular systems. Knowledge of the major bone structures and muscles will be expected. Students will learn how to use a Punnett square and learn how DNA and RNA work in the human body.

Social Studies

CIVICS

PREREQUISITES: None

Focus of this semester class is over the United States Federal Government, our Constitution, and State and local politics. The Presidency, Congress, and Supreme Court are of major importance in this class. In addition, Missouri government and Constitutional studies will be included in the curriculum. This is a Senior level class.

WORLD HISTORY

PREREQUISITES: None

In this class you will examine the History of the World since the beginning of time to contemporary times. Lecture, notes, and tests are the main grading criteria. Freshman are the primary members of the class..

AMERICAN HISTORY

PREREQUISITES: None

In this class you will look at American History from Colonization to the present with a focus on time and issues after World War 1 to the present. Lectures, notes, and tests are the main grading criteria. This class is aimed at Sophomores and Juniors