

# 9<sup>th</sup> Grade Electives – 2010-11 School Year

## Agriculture

**Course Title: Exploring Agri-Sci (Ag Tech I)**

Prerequisite: None  
Credit Value: .5  
Grade: 9, 10, 11

**Course Description:**

Agri-sci will focus on the introduction to Agriculture and the Sciences are a part of Agriculture. Topic areas may include: mechanics, food supply, animals, plants, leadership, and lab activities. Students will participate in **hands-on activities**. Safety rules and exams will be taken.

\*Required state standards covered in this course: various science strands, social studies strands, language strands, & Math strands

**Course Title: STEM – (robotics, engineering, microelectronics, biotech, & alternative energies)**

Prerequisite: Instructor approval  
Credit Value: .5  
Grade: 9,10,11,12  
Class Limit: 20  
Offered: Semester 1

**Course Description:**

This course is designed for those students who would have an interest in the Bison Best competition, robots, & alternative energy. This course brings together science, engineering and technology to compete with the ever changing world we live in. Students would work in groups designing, building & testing different robots, micro electronics, biotech & alternative energy sources. Students will have the opportunity to compete with Team Wired Waska Robotics as well as other interesting projects and field trips. Students will be required to keep engineering journals throughout the course, do presentations, and, use solid works design programs as well as work in groups. Students will be graded on the above plus daily work, safety, attitude, & participation in class activities.

\*Required State Standards covered in this course: will follow some the standards with the National Science, Mathematics, Technology & Career Cluster standards. Such standards will include: systems, orders, measurements, motion, forces, conservation of energy, interactions of motion, history & nature of science, engineering design, role of trouble shooting, problem solving, safety & health, leadership & team work, career development, communications, algebra, geometry, statistics and measurement, data analysis, and marketing & economics as well as some fabrication of a product.

**Course Title: Agri-Business**

NEW COURSE for 2010-11  
Prerequisite: None  
Credit Value: .5  
Grade: 9,10,11,12

**Course Description:**

This course will work with the business side of agriculture. Will work with computer programs (spreadsheets, brochures, presentations, media, web pages, etc.) work on business plans, loans & grant programs, photography, accounting, and any other important items that come with running a business. This course will be hands on. Students will be given opportunities to compete against other schools in different business areas.

## Art

**Course Title: Art Fundamentals I**

Prerequisites: None  
Credit Value: .5  
Grade: 9, 10

**Course Description:**

Students will explore the elements of art and study non-western art traditions which includes African, Oceanic, Islamic, Japanese and Chinese. Projects will include hand-built and wheel-thrown pottery, Students will make functional projects including, large and small bowls, mugs, chimes, bird-houses, etc. They will use glazes and underglazes and a variety of glazing techniques.

**Course Title: Art Fundamentals II**

Prerequisites: None  
Credit Value: .5  
Grade: 9, 10

**Course Description:**

Students will explore the principles of art, proportions in figure drawing, perspective and the history of American art. Projects will include figure drawing, simple book making, linoleum cut, self-portrait, duck stamp contest and landscape painting. Students will develop technical skills in the use of graphite, charcoal, colored pencils, pastels, watercolor, pen and ink, collage, and acrylic paint in creating artwork. All class projects will be displayed at the all-school art show in May. This class will run 1 semester in length.

## Business / Media Technology

**Course Title:**           **Computer Applications I**  
With articulated college credit  
NEW COURSE for 2010-11  
**Prerequisite:**           None  
**Credit Value:**           .5  
**Grade:**                   9, 10, 11, 12

**Course Description:**

This course is recommended for students who want to gain a better operating knowledge of commonly used computer applications and to improve their keyboarding skills. Tasks completed in this course will prepare students to perform required assignments in other classes, as well as improve their working computer knowledge for personal use. Areas of concentration will focus on Word, Excel, PowerPoint, Access, and use of the internet. Keyboarding skills and techniques will be practiced weekly, and students will improve their keyboarding performances. Applications will range from introductory to challenging in nature.

**\*Required state standards covered in this course:** Tasks that the students will perform that may help for preparing for the state testing standards include vocabulary expansion, non-fiction reading and comprehension.

## Family & Consumer Sciences

**Course Title:**           **Teen Living**  
**Prerequisite:**           None  
**Credit Value:**           .5  
**Grade:**                   9, 10

**Course Description:**

The class will cover information in five areas of teen's lives – personal development, family studies and child development, foods and nutrition, clothing, and personal finance. Class projects include: a research project in family studies or child development, the Baby Think It Over project, foods labs, personal eating analysis, teen budgeting, the check book project, and sewing a pair of pajama pants. Teen Living is an interactive, hands-on learning class. This course runs 1 semester in length.

**Required state standards covered in this course:**

Math standards of measurements and number sense. Reading standards of non-fiction reading and vocabulary expansion.

## Industrial Technology

**Course Title:**           **Exploration in Technology I**  
**Prerequisite:**           None  
**Credit Value:**           .5  
**Grade:**                   9,10,11,12

**Course Description:**

This course will provide exploration in Manufacturing and Communication. Students will manufacture a shaker table as well as other wood products. In communications the students will produce logos for silk-screening shirts as well as iron on transfers. All activities will require safe and proper use of power equipment.

**Course Title:**           **Exploration in Technology II**

**Prerequisite:**           None  
**Credit Value:**           .5  
**Grade:**                   9,10,11,12

**Course Description:**

This course will provide an exploration in wood production and transportation. Safe and proper use of power equipment will be required to design and produce wood products of their choice. Transportation will include making Co2 cars and terrestrial vehicles as well as a ballistic ball launcher.

## World Language

**Course Title:**           **Spanish I**  
**Prerequisite:**           None  
**Credit Value:**           1  
**Grade:**                   9-12

**Course Description:**

In this class, students will be introduced to the basics of Spanish grammar and conversation. Emphasis will be placed on speaking, listening for understanding, reading, and writing the language. This class will explore a variety of historical and cultural themes. Students will be asked to do such tasks as asking directions in the city, ordering in a restaurant and creating a menu, shopping and bartering, describing one's home and family, discussing weather, as well as listening to and singing Spanish music. "Speed Spanish" will also be incorporated to further enhance speaking skills. At the end of this course, students will have a strong base from which to continue studying the language. This class runs 1 year in length.