



MVTHS--CTE DEPARTMENT



Agriculture Education Course Descriptions for 2012 – 2013

1/17/2012

Basic Agriculture Mechanics

AG100A/B 800

Course ID: 18401A001

In this course, theory and hands-on experiences provide opportunities for students to develop basic knowledge and skills in agricultural mechanics. Instructional areas include the basic fundamentals of maintaining and repairing small gasoline engines, basic electricity, welding, construction, and operating agricultural equipment safely. Improving workplace and computer skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Length of course:	2 Semesters
Credits per semester	.5
Grade level:	9, 10 (Juniors and seniors will be allowed in the course only if enrollment numbers make this possible. (Juniors will have priority.)
Prerequisite:	None

Introduction to Agriculture Industry A

AG105A 555

Course ID: 18001A001

This orientation course provides an opportunity for students to learn how the agricultural industry is organized; its major components; the economic influence of agriculture at state, national and international levels; and the scope and types of job opportunities in the agricultural field. Basic concepts in forestry, plant science, wildlife management, natural resources, food science, food science technology, environmental science and parliamentary procedures will be presented. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Length of course:	1 Semester
Credits per semester	.5
Grade level:	9, 10 (Juniors and seniors will be allowed in the course only if enrollment numbers make this possible. (Juniors will have priority.)
Prerequisite:	None

Introduction to Agriculture Industry B

AG105B 556

Course ID: 18001A001

This orientation course provides an opportunity for students to learn how the agricultural industry is organized; its major components; the economic influence of agriculture at state, national and international levels; and the scope and types of job opportunities in the agricultural field. Basic concepts in animal science including small and large animal production, animal wellness and management, and aquacultural science and technology will be presented. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Length of course:	1 Semester
Credits per semester	.5
Grade level:	9, 10 (Juniors and seniors will be allowed in the course only if enrollment numbers make this possible. (Juniors will have priority.)
Prerequisite:	None

Basic Horticultural Science A

AG110A 562

Course ID: 18052A001

This course is designed to introduce students to the horticulture industry and provide them with basic plant science knowledge that can be further developed in advanced horticulture courses. Major units of instruction include horticulture research, horticultural careers, plant anatomy, seed germination, plant propagation, growing media, pest management, hydroponics, identifying horticultural plants, growing greenhouse crops, and floral design. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and

Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Length of course:	1 Semester
Credits per semester	.5
Grade level:	10, 11 and 12
Prerequisite:	None

Basic Horticultural Science B

AG110B 563

Course ID: 18052A001

This course is designed to introduce students to the horticulture industry and provide them with basic plant science knowledge that can be further developed in advanced horticulture courses. Major units of instruction include, horticultural research, seed germination, plant propagation, landscape design, growing media, pest management, identifying horticultural plants, growing greenhouse crops, and floral design. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Length of course:	1 Semester
Credits per semester	.5
Grade level:	10, 11 and 12
Prerequisite:	None

Basic Agriculture Science A

AG200A 560

Course ID: 18003A001

This orientation course builds on basic skills and knowledge gained in the Introduction to the Agricultural Industry course. Major units of instruction include agricultural research, soil science, plant science on many plant characteristics, health care and fertilizers to help plants in the fields and gardens also, biotechnology, advanced animal science. Many applied science and math skills and concepts will be stressed throughout the course as they relate to each area of soil and plants. Improving computer and workplace skills will be a focus in this course for many of the 300 agriculture careers. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts to teach careers and pay for college.

Length of course:	1 Semester
Credits per semester	.5
Grade level:	10, 11 and 12
Prerequisite:	None

Basic Agriculture Science B

AG200B 561

Course ID: 18003A001

This orientation course builds on basic skills and knowledge gained in the Introduction to the Agricultural Industry course. Major units of instruction include animal sciences in cattle, swine, sheep, horses, meat science, advanced plant science, biotechnology, advanced animal science. Many applied science and math skills and concepts will be stressed throughout the course as they relate to each area. Improving computer and workplace skills will be a focus in this course. Your participation in the FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts to prepare you for over 300 agriculture careers. The first semester of Agriculture Science is recommended before entering this course unless an agreement is made by the Agriculture Department.

Length of course:	1 Semester
Credits per semester	.5
Grade level:	10, 11 and 12
Prerequisite:	None

Supervised Agriculture Education (SAE) I

595

This course is designed to establish knowledge and skills in various agricultural careers. Students will gain credit by establishing a project at their home, at a local business, or at their school usually after normal school hours. Example projects may include, but are not limited to: salesmanship, turf grass management, recycling and environmental management, landscaping, outdoor recreation, working at a garden center, raising vegetables/grain/livestock, conducting agriscience experiments in a greenhouse, and training horses at a stable. Students will be required to verify their experiences by keeping written or computerized records including: business agreements, budgets, inventories, daily activities, hours worked, income and expenses, total earnings,

depreciation, and net worth. Instructor supervision will be conducted to the student's home or place of employment. SAE records should be evaluated at least once per month. In addition, SAE lessons are integrated in each agricultural course. SAE participation can lead to fulltime employment, scholarships, and awards through the FFA. Offered to students who have Ag Departmental approval. 1/4 credit each year (1.0 credit maximum)

Length of course:	2 Semesters
Credits per year	.25
Grade level:	9, 10

Agricultural Mechanics and Technology

AG300A/B 564

Course ID: 18402A001

This course will concentrate on expanding student's knowledge and experiences with agricultural mechanics technologies utilized in the agricultural industry. Units of instruction included are: design, construction, fabrication, maintenance, welding, electricity/electronics, internal combustion engines, hydraulics, and employability skills. Careers of agricultural construction engineer, electrician, plumber, welder, equipment designer, parts manager, safety inspector, welder, and other related occupations will be examined. Improving workplace and computer skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Length of course:	2 Semesters
Credits per semester	.5
Grade level:	11, 12
Prerequisite:	None

Agricultural Business and Management

AG310A/B

580

Course ID: 18201A001

(Satisfies Consumer Education Requirement)

This course will provide students with the basic knowledge and skills necessary to manage personal finances and develop into a successful entrepreneur and/or businessperson. Instructional units include: business ownership types, starting an agribusiness, managing and operating an agribusiness, financing an agribusiness, managing personal finances, record keeping and financial management of an agribusiness, local, state, and federal taxes, sales and marketing, economic principles, and developing employability skills. Student skills will be enhanced in math, reading comprehension, and writing through agribusiness applications. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Length of course:	2 Semesters
Credits per semester	.5
Grade level:	11, 12
Prerequisite:	None
Dual Credit:	Rend Lake College: AGRI-1141 Agricultural Economics (3 credit hour) —Junior/Senior only

Agricultural Communications and Leadership

AG__A/B

Course ID: 18203A002

This course is designed to provide students with communication and leadership skills that will help them to work with others, make career advancements, and prepare for success in local, state, national, and international agriculture. Students will analyze current agricultural issues and determine how they affect people on all sides of the issue. The students then learn and enhance their written and oral communication skills by presenting their views and opinions to the class. Students learn how to arrange and present debates, speeches, and interviews to be effective leaders in today's society. Students will further enhance their potential for leadership development, personal growth, and career success through leadership development and experiences. Participation in FFA student organization activities and Supervised Agricultural Experiences (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Length of course:	2 Semesters
Credits per semester	.5
Grade level:	11, 12
Prerequisite:	None

Supervised Agriculture Education (SAE) II

595

This course is designed to improve and expand knowledge and skills in various agricultural careers. Students will gain credit by continuing a project at their home, at a local business, or at their school usually after normal school hours. Students are encouraged to add additional projects, experiences, scope, and growth involving managerial and decision making skills. Students will be required to verify their experiences by keeping written or computerized records including: business agreements, budgets, inventories, daily activities, hours worked, income and expenses, total earnings, depreciation, and net worth. Instructor supervision will be conducted to the student's home or place of employment. SAE records should be evaluated at least once per month. In addition, SAE lessons are integrated into each agricultural course. SAE participation can lead to fulltime employment, scholarships, and awards through the FFA.

Length of course:	2 Semesters
Credits per year	.25
Grade level:	11, 12

Interrelated Cooperative Education

BU500A/BU500B

900

Course ID: 22153A001

This course is designed for senior students interested in pursuing careers in occupations related to agricultural education. Students are released from school for their paid cooperative education work experience and participate in 200 minutes per week of related classroom instruction. Classroom instruction focuses on providing students with job survival skills, career exploration skills related to the job, as well as improving students' abilities to interact positively with others. For skills related to the job, refer to the skill development course outlines and the task list of the desired occupational program.

A qualified, certified CTE instructor is responsible for supervision. Written training agreements and individual student training plans are developed and agreed upon by the employer, student and coordinator. The coordinator, student and employer assume compliance with federal, state and local laws and regulations.

The course content includes the following broad areas of emphasis: further career education opportunities, planning for the future, job-seeking skills, personal development, human relationships, legal protection and responsibilities, economics and the job, organizations, and job termination. Classroom and worksite instruction is based on the tasks in an occupation.

Length of course:	Semesters
Credits per semester	1.5
Grade level:	12
Prerequisite:	Completion of one credit of skill-specific training in an approved CTE program recommended.
Application:	Yes