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Carrollton High School Agriculture Classes

Agriculture Education

1132 Ag. Food & Nat. Resources 1 11/4 credit / full year 9 10 11 12
2132 Ag. Food & Nat. Resources 2* 11/4 credit / full year - 10 11 12
3134 Advanced Engines V credit / 1/2 year - - 11 12
3160 Advanced Animal Science V credit / 1/2 year - - 11 12
3135 Advanced Plant Science V credit / 1/2 year - - 11 12
3131 Electricity/Plumbing/Const. V credit / 1/2 year - - 11 12
3140 Agricultural Leadership V credit / 1/2 year - - 11 12
3133 Agriculture Woodworking V credit / 1/2 year - - 11 12
3136 Comm. & Leadership in Bus. 1 credit / full year - - 11 12
3137 Bus. Management for Ag. 1 credit / full year - - - 12
3137C3 Ag. Systems CAPSTONE 2 credits / full year - - - 12

Agriculture Education

A variety of courses are offered in the agriculture program. Some changes are coming to the program from the state level – and a few are being made this year. Look for more changes in the coming years as the state unveils the new program. All agricultural education classes provide extra credit for project requirements. Students must complete an out of school project in order to receive credit for the course. Membership in the student organization of FFA is REQUIRED and participation is a part of student grades.

Ag. Food and Natural Resources 1

Full Year / 11/4 credit

Formerly named Ag. Science 1, this beginning agriscience course will include the following agricultural topic areas and will include the study of science principles as they are involved in agriculture:

1. Livestock identification, selection, and judging
2. Basic agricultural crop production and use; basic soil science
3. Basic woodworking skills
4. Basic food science and biotechnology
5. Agricultural record keeping
6. Leadership development – FFA

This course will fulfill the freshman-level science credit needed for graduation.

Ag. Food and Natural Resources 2

Full Year / 11/4 credit

Prerequisite: Ag. Food and Natural Resources 1

This agri-science course will include the following agricultural topic areas and will include the study of science principles as they are involved in agriculture:

1. Basic skills in arc and gas welding
2. Operation and overhaul of small gasoline engines
3. Livestock and crop nutrition
4. Basic plant science
5. Agricultural record keeping
6. Leadership development – FFA

Communications & Leadership in Business

Full Year / 1 credit

Prerequisite: Approval through the guidance office and supervising teacher.

Junior or senior status

Formerly named Ag. Business 1, this course will analyze attributes and capabilities of those in leadership positions and develop their communication and leadership skills in authentic situations. The course will also explore agribusiness careers and career skills needed to be successful.

Business Management for Agriculture

Full Year / 1 credit

Prerequisite: Communications & Leadership or Instructor Approved

Formerly named Ag. Business 2, this senior class will study agricultural business concepts. Students will develop business plans, financial reports, and strategic goals for businesses; use and evaluate marketing strategies; and apply other business concepts to agricultural business.

Agricultural Systems CAPSTONE

Full Year / 1+ Credits

Prerequisite: Enrolled in Business Management for Agriculture

Students who would like to participate in the co-op program should enroll in this course. The course requires application of learning to a work placement that serves as an instrument for evaluation. Students can be released early from school to work at a job related to agriculture. The teacher will supervise students on the job site periodically throughout the year.

Agriculture Woodworking

1 semester / 6 credit

Prerequisite: Junior or Senior status

This course teaches basic woodworking skills in shop safety, hand tool and power tool operation, and finishing techniques. Class time will allow students to construct projects of their choice with material provided by the student.

Agricultural Leadership

1 Semester / 6 credit

Prerequisite: Junior or Senior status

This course will help students further develop personal leadership and career success. Students will study group dynamics, teamwork, public speaking, managerial leadership skills, and career

preparation. Students will be able to prepare for FFA activities and events while strengthening their leadership abilities.

Advanced Engines 1

Semester / 6 credit

Prerequisite: Junior or senior status

This course teaches the basics in multi-cylinder function and theory. The student will learn all the basic parts of an engine, the tools used, and the repair procedures. Each student will have the opportunity to bring in an engine to repair.

Advanced Plant Science 1

Semester / 6 credit

Prerequisite: Junior or senior status

This course will include an in depth look at the world of agronomy and plant science. Topics include: plant types and uses, nutrition and growth, genetics and reproduction, hydroponics, genetic engineering and bio-technology, forestry, soil science, and food and fiber production.

Advanced Animal Science 1

Semester / 6 credit

Prerequisite: Junior or senior status

Students in this course will study the broad spectrum of animals and animal agriculture. Topics will include history of animals and animal agriculture, anatomy and physiology, production and growth, digestion and nutrition, reproduction and genetics, animal health and veterinary practices, livestock and animal care, and biotechnology.