

Course Descriptions

Revised 2019-2020

Course Name *

Aquaculture/Horticulture

Teacher Name *

Mrs. Bean

Prerequisite *

Ag science is suggested as a prerequisite, or permission from the teacher.

Course Description *

This course is recommended for juniors. We will spend half a year discussing principles of aquaculture, breeds of fish, the fishing industry and aquaponics. Students will have the opportunity to raise fish in the classroom. The second half of the year will be spent on topics in horticulture such as plant structure, reproduction, photosynthesis, cellular respiration, and organic agriculture. Students will have the opportunity to work hands on in the greenhouse. This course is available for dual-credit (3 credits) through Morrisville State College. Ag science is suggested as a prerequisite, or permission from the teacher.

Credit - Will this course receive college credit *

☒ Yes

☐ No

This course could lead to a career in: *

Aquaculture, Horticulture, Greenhouse Management, Fruit/Vegetable Production,
Research

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Course Descriptions

Revised 2019-2020

Course Name *

Ag Science

Teacher Name *

Mrs. Bean

Prerequisite *

This course is recommended as a prerequisite to the other agriculture classes.

Course Description *

This course is designed for freshmen who wish to take agriculture. It is an over view of many different areas of agriculture from the history of agriculture, communication, FFA, soil science, environmental science, animal science, plant science, food science and mechanics. Students will get to work hands on with small animals and have the opportunity to become FFA members. This course is recommended as a prerequisite to the other agriculture classes.

Credit - Will this course receive college credit *

☐ Yes

☒ No

This course could lead to a career in: *

Communication, Research, Environmental Science, Animal Science, Plant Science,
Food Science, Ag Mechanics

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Revised 2019-2020

Course Name *

Animal Science

Teacher Name *

Mrs. Bean

Prerequisite *

Ag science is suggested as a prerequisite, or permission from the teacher.

Course Description *

This course is recommended for sophomores. We will look in depth into topics such as animal systems, anatomy and physiology, digestion, nutrition, reproduction, genetics, diseases and careers in animal science. Students will get to work hands on with small animals. This course is available for dual-credit (3 credits) through Morrisville State College. Ag science is suggested as a prerequisite, or permission from the teacher.

Credit - Will this course receive college credit *

☒ Yes

☐ No

This course could lead to a career in: *

Animal agriculture, veterinarian, animal nutritionist, animal geneticist

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Revised 2019-2020

Course Name *

Environmental Science

Teacher Name *

Mrs. Bean

Prerequisite *

Ag science is suggested as a prerequisite, or permission from the teacher.

Course Description *

This course is recommended for seniors and juniors. We will review concepts of ecosystems and biomes. We will talk about recycling, conservation, wildlife, plants, soil, water, air, renewable energy and current issues in agriculture and environmental science. Students will have the opportunity to compete in the Envirothon Competition in April held at the Thompson Park Zoo. This course is available for dual-credit (3 credits) through Morrisville State College. Ag science is suggested as a prerequisite, or permission from the teacher.

Credit - Will this course receive college credit *

☒ Yes

☐ No

This course could lead to a career in: *

Renewable energy, environmental policy, wildlife, forestry, soil scientist

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Course Descriptions

Revised 2019-2020

Course Name *

Agricultural Mechanics

Teacher Name *

Mrs. Bean

Prerequisite *

Ag science is suggested as a prerequisite, or permission from the teacher.

Course Description *

This course is designed for upperclassmen. We will discuss the principles of safety, measurement, woodworking, electricity, welding and small engines. Students should plan to be hands on in the shop most days. A prior knowledge of these subjects is not required. Ag science is suggested as a prerequisite, or permission from the teacher.

Credit - Will this course receive college credit *

☐ Yes

☒ No

This course could lead to a career in: *

Carpentry, electrician, small engine repair, welder

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Course Name *

Equine Science

Teacher Name *

Mrs. Bean

Prerequisite *

Ag science is suggested as a prerequisite, or permission from the teacher.

Course Description *

This course is recommended for sophomores, juniors or seniors interested in horses. Students will take an in depth look into the evolution of the horse, breeds, coloring, genetics, equine dentistry, tack and saddles, conformation and judging. Ag science is suggested as a prerequisite, or permission from the teacher.

Credit - Will this course receive college credit *

☐ Yes

☒ No

This course could lead to a career in: *

Equine dentistry, horse training, horse judging

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Course Name *

Food Science

Teacher Name *

Mrs. Bean

Prerequisite *

Ag science is suggested as a prerequisite, or permission from the teacher.

Course Description *

This course is recommended for sophomores, juniors or seniors. Students will take a look at the food system from farm to fork. Topics covered include raising and marketing beef, dairy and poultry, food safety, preservation and production. Students will have opportunity to work hands on in the greenhouse and school garden. Ag science is suggested as a prerequisite, or permission from the teacher.

Credit - Will this course receive college credit *

☐ Yes

☒ No

This course could lead to a career in: *

Culinary arts, production agriculture, food safety and inspection

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Course Name *

Ag Leadership and Communication

Teacher Name *

Mrs. Bean

Prerequisite *

Ag science is suggested as a prerequisite, or permission from the teacher.

Course Description *

This course is recommended for upperclassmen. Learn about the habits of effective leaders and develop the skills to make you on in your school, home or community. Become confident in your public speaking and writing abilities. Be prepared to be an active participant in ice breaker type activities and classroom discussions! Ag science is suggested as a prerequisite, or permission from the teacher.

Credit - Will this course receive college credit *

☐ Yes

☒ No

This course could lead to a career in: *

Ag communication, journalism, public speaking

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