



## **AGRISCIENCE COURSES** **& AGRISCIENCE CERTIFICATE PROGRAMS:**

There are 3 Agriscience Certificates available: Pet First Aid, Pesticides and OSHA. In order for eligibility for an Agriscience-related certificate, students will have had to complete a 4 course continuum in the program, and 2 of those courses must be Agriscience I and II which are full year courses. Therefore, to obtain a certificate, students must enroll in Agriscience I no later than the beginning of their sophomore year. Any student eligible to attend Narragansett High School is automatically eligible for enrollment in the Agriscience Certificate Program. All courses are open to all students at any time; however, to obtain a certificate, requirements are listed below.

[Student Application is available here.](#)

| <b>PET FIRST AID</b>                   | <b>PESTICIDE</b>                      | <b>OSHA</b>                 |
|--|---------------------------------------|-----------------------------|
| <b>Agriscience I</b>                   | <b>Agriscience I</b>                  | <b>Agriscience I</b>        |
| <b>Agriscience II</b>                  | <b>Agriscience II</b>                 | <b>Agriscience II</b>       |
| <b>Agriscience III: Animal Science</b> | <b>Agriscience III: Plant Science</b> | <b>Agriscience Elective</b> |
| <b>Agriscience Elective</b>            | <b>Agriscience Elective</b>           | <b>Agriscience Elective</b> |

## **802 AGRISCIENCE I**

1 Credit  
Full Year  
Level 2  
Grades 9-12

This course is an elective for all students and a requirement for those seeking any certificate (OSHA Safe Workplace, Pet First Aid or Pesticide). Agriscience I provide an introduction to the agrisciences and FFA. Topics include history and importance of Agriscience in the U.S. and worldwide. Students will receive lessons in sustainability and learn about managing human impacts on our natural resources. Hands-on activities in basic construction, plumbing, greenhouse operation, lawn and garden maintenance, and floriculture are part of the course. Introductory material for further study in both plant and animal science is provided. Participation in FFA public speaking contests and field trips is encouraged.

## **803 AGRISCIENCE II**

1 Credit  
Full Year  
Level 2  
Grades 10-12

*Pre-Requisite for Certificate Program: Agriscience I*

This course is an elective for all 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> grade students and the second course required in sequence for an Agriscience program certificate. In Agriscience II, a basic overview of Agriculture and Natural Resources is provided as well as an in-depth investigation into Agriscience related careers. Students will learn plant taxonomy and have first-hand, working knowledge of the biological classification system for all living things. Study topics will include Forestry, Horticulture, Floriculture, Interiorscaping, Turfgrass management, Greenhouse operation, Small Animal Care and Food Processing. Participation in many FFA contests and field trips is encouraged.

## **812 AGRISCIENCE III – ANIMAL SCIENCE**

½ Credit  
One Semester - Fall  
Level 2  
Grades 11-12

*Pre-Requisite for Certificate Program: Agriscience I and II*

This course follows The URI AVS101 curriculum, and students with an 85 or better may apply for college credits (fees apply). Topics include basic animal and veterinary science and domestic animal care. Eligible Agriscience students will earn credits towards their Pet First Aid certificate. Lab component may require farm field trips.

## **801 AGRISCIENCE III – PLANT SCIENCE**

½ Credit  
One Semester-Spring

*Pre-Requisite for Certificate Program: Agriscience I and II*

Level 2  
Grades 11-12

This course focuses on greenhouse management, spring plant production, plant propagation. Students will be responsible for specialty crop production. Students will learn about biological control and safe pesticide use and earn credits towards their RI State pesticide certificate. Students will manage floral orders for graduation and special events. Elements of Landscape design will be applied and practiced. Field trips and FFA competitions are encouraged.

#### **804 LANDSCAPE DESIGN**

½ Credit  
One semester-Fall  
Level 2  
Grade 11-12

*Can be used as an elective for Certificate Program.*

Students learn to identify and scientifically name many landscape trees and shrubs. Basic design techniques will be learned and practiced and students will encompass learned landscape plantings into their designs. Scaled drawings will be created as well as site design considerations and parameters. 3-D landscape models will be constructed. Participation in the FFA landscape design competition will be encouraged.

#### **811 SUSTAINABLE AGRICULTURE** ½ Credit

One semester-Spring  
Level 2  
Grades 11-12

*Can be used as an elective for Certificate Program*

The focus of this course is to allow students hands-on management, marketing and production experience. Students will be responsible for producing both plant and animal products and associated pricing, advertising and customer relations. Maple syrup and poultry are currently in crop production, but other specialty crops may be added.

#### **806 SPECIALITY PLANT PRODUCTION**

½ Credit  
One semester  
Level 2  
Grade 12

*Can be used as an elective for Certificate Program*

For students who have mastered the concepts presented in prior Agriscience courses. Specialty Plant Production provides additional experiences focused on specialty plant production. This course is designed to provide a unique opportunity for students to build upon the foundation laid in earlier agriculture courses and bring them to an advanced level in horticulture management.

#### **807 LANDSCAPE CONSTRUCTION**

½ Credit  
One semester  
Level 2  
Grade 12

*Can be used as an elective for Certificate Program*

For students who have mastered the concepts presented in prior Agriscience courses. Landscape Construction provides students with additional experiences concentrated on landscape construction through authentic, applied learning projects. This course is designed to provide a

unique opportunity for students to build upon the foundation laid in earlier agriculture courses and bring them to an advanced level in horticulture management.

**808 AGRISCIENCE MECHANICS I**

*Can be used as an elective for Certificate Program*

½ Credit  
One Semester  
Level 2  
Grades 9–12

Agriscience Mechanics I will include an introduction to the engine, including parts, maintenance, and basic operation. Students will learn the identification and safe handling of tools, the operation basics of 2-stroke vs. 4-stroke, and the history and technology of the engine. Students will experience hands-on engine replication. Technological advances of machines over time and their impact on society will be investigated.

**809 AGRISCIENCE MECHANICS II**

*Can be used as an elective for Certificate Program*

½ Credit  
One Semester  
Level 2  
Grade 9 – 12

This course is open to all students as an elective. Agriscience Mechanics II is encouraged but not required. This course will include the mechanics and efficiency of engines. Students will be introduced to lubricants and fuels. Maintenance and repair of small engines is taught and practiced. Students will have hands-on experience with agricultural engines such as tractors, mowers, etc. each year. Practice with welding and agricultural construction is incorporated into the class.