

their role as a consumer, examine the vast career opportunities within the marketing realm, including: market research, strategic planning, and new product development. Further topics will include the fundamentals of marketing, consumer behavior, the buying process, the elements and techniques of market segmentation, pricing strategies, and the examining of principles of current and past philosophies associated with marketing. Students are encouraged to work in the DECA Marketplace (school store) and participate in State DECA competition. DECA is a national association of marketing students. Competition occurs at the State and National Levels.

LEADERSHIP AND CHARACTER DEVELOPMENT

half year – .5 credit

7310 Grades 11-12

Students in grades 11-12 will learn to work as part of a team to learn problem solving skills through hands-on activities and in- and out-of-class projects. The course will focus on gaining increased self-understanding, leadership styles, communication skills, team building, group process, and values clarification. There is a **mandatory** community service requirement for this course. Highly recommended for class, club, and student council officers along with all sports team captains.

REGIONAL AGRISCIENCE AND BIOTECHNOLOGY PROGRAM

Students participating in the Agriscience and Biotechnology Program traditionally are involved in multiple fundraising and community outreach activities.

ACP PHYSICAL SCIENCE (Agri)

full year – 1 credit

9114 Grade 9

This course follows the Connecticut State Frameworks for Grade 9 students. Through the use of experimental design and qualitative and quantitative descriptions, students will explore topics of Energy, Properties & States of Matter, Atomic Structure, The Periodic Table, Chemical Bonding & Reactions, Carbon Compounds and their role in society, Solutions, Acids, & Bases in our environment, and Electricity & Magnetism.

Prerequisite: A grade of B or better in eighth grade science in conjunction with a collaborative effort between the high school and middle school personnel through the discussion of the grid selection instrument

Recommendation: Currently taking *Algebra I* or higher

ACP BIOLOGY (Agri)

full year – 1.25 credits

9124 Grade 10

with laboratory

This introductory course of Biology is a year long in depth study of such topics as cellular biology, biochemistry, taxonomy, evolution, human body systems, as well as traditional and applied genetics. Student centered activities are included to support the study of these areas. Emphasis is placed on analytical and critical thinking skills, data interpretation and other CAPT preparatory skills.

Prerequisite: Successful completion of *ACP Physical Science*

H BIOLOGY (Agri)

full year - 1.25 credits

9125 Grade 10

with laboratory

This course fosters a higher level of student independence. Concepts introduced will be studied in great detail. The course will focus on such topics as cellular biology, biochemistry, evolution, taxonomy, human body systems, and traditional and applied genetics. Student centered activities are included to support study of these areas. Lab work will be extensive and will require independent research. CAPT preparation is also integrated into the course.

Prerequisite: Successful completion of *H Introduction to Physics & Chemistry* or A- or better in *ACP Physical Science* and teacher recommendation

AGRISCIENCE 9

full year- 1 credit

9134 Grade 9

single period

The 9th grade Agriscience course is designed for students to explore the broad field of agriculture. Some of the areas that will be explored include, but are not limited to, the following: Plant Science, Animal Science, Food Science, Natural Resource and Environment, Agriculture Mechanics and Agribusiness. All students are required to participate in the FFA and have a Supervised Agriscience Experience (SAE) program.

AGRISCIENCE 10*9144 Grade 10***full year- 2 credits
double period**

(All students must also sign up for Agri-PE 10 9100, ACP Bio (Agri) 9124 or H Bio (Agri) 9125)

The 10th grade Agriscience course is a continuation of the studies from Agriscience 9. All areas of agriculture will be explored in more depth in this course. Areas of concentration include: Plant Science, Animal Science, Food Science, Natural Resource and Environment, Agriculture Mechanics and Agribusiness. All students are required to participate in the FFA and have a Supervised Agriscience Experience (SAE) program.

Prerequisite: Successful completion of *Agriscience 9*

ECE AGRI BIOTECHNOLOGY*9154 Grade 11**9164 Grade 12***full year - 2 credits
double period**

This course will develop students' knowledge of scientific principles relating biotechnology to plants, animals, and the environment. Course structure will necessitate student involvement in extensive laboratory training and procedures. All students are required to participate in the FFA and to have a Supervised Agricultural Experience (SAE) Program. This course is open only to students enrolled in the Agriscience Program. Students will receive one Agriscience elective credit and one science elective credit. This course cannot be used to replace any of the core science graduation requirements.

Prerequisite: Successful completion of *Agriscience 9 and 10*

ECE PLANT SCIENCE*9174 Grades 11**9184 Grades 12***full year - 2 credits
double period**

Students will have the opportunity to utilize state of the art facilities to study areas including hydroponics, biotechnology, and plant tissue culture. Students will also have the opportunity to study more traditional plant related topics such as turf and landscape management, greenhouse management, fruit and vegetable production and floral design. All students are required to participate in the FFA and to have a Supervised Agricultural Experience (SAE) Program. This course is open only to students enrolled in the Agriscience Program. Students will receive one Agriscience elective credit and one science elective credit. This course cannot be used to replace any of the core science graduation requirements.

Prerequisite: Successful completion of *Agriscience 9 and 10*

ANIMAL SCIENCE*9194 Grades 11- 12***full year - 2 credits
double period**

This course is for those students that wish to pursue the study of Animal Science and Technology. Emphasis is on the importance of large animals as a major phase of agriculture. Students are trained in practical, hands-on situations, using the THS demonstrational farm. Applied knowledge in livestock production related to selection, care and management, showing, nutrition, breeding, health and opportunities in the industry are emphasized. Modern technology has created a demand for trained specialists in this area of agriculture and agribusiness. This course offers a concentration in animal science responding to the demands of the job market. All students are required to have successful SAE (Supervised Agriculture Experience) and participate in the FFA.

Prerequisite: Successful completion of *Agriscience 9 and 10*

EQUINE SCIENCE*9204 Grades 11 - 12***full year - 2 credits
double period**

This course is for students that have an identified interest in the study of equine science. Students will have the opportunity to study history, genetics, reproduction, nutrition, health management, and selections. Students will be selected based on interest and equine related experience. All students are required to participate in the FFA youth organization and have a Supervised Occupational Experience Program (SAE).

Prerequisite: Successful completion of *Agriscience 9 and 10*

AQUACULTURE

AQUACULTURE*9300 Grades 9 - 12***full year - 2 credits
double period**

The Bridgeport Regional Vocational Aquaculture School is a regional facility located at Captain's Cove Seaport which offers unique educational opportunities in two separate areas: marine technology and marine science. Students from