



## ENVIRONMENTAL, AGRICULTURE AND NATURAL RESOURCES

Becoming a member of the Environmental Studies Program provides you with an engaging, fun and challenging course of study in Curriculum for Agricultural Science Education (CASE). The agricultural sector is a highly competitive global industry addressing new challenges in global and domestic markets. Advances in science and technology, in particular biotechnology, will continue to drive innovation and growth in this field. Growing public concerns over natural resources, environmental quality, and public health will continue to expand the role and scope of the natural resource management and environmental services sectors. The CASE Pathway may lead to internships, industry certification, and college-level credits through dual enrollment and articulated college credits.

### DID YOU KNOW?



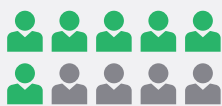
**1/3 of CTE Students** can earn **college credit** and/or **industry certification** through CTE.<sup>1</sup>



**CTE Graduates** earn **significantly more** than those who majored in academic fields.<sup>2</sup>



**CTE PROGRAMS =**  
SKILLS + REAL-WORLD EXAMPLES



**6 in 10 Students** plan to **pursue a career related to the CTE area** they explored in high school.<sup>3</sup>



**CTE Graduates** with technical or applied science associate's degrees **out-earn** bachelor's degree holders by **\$11,000**.<sup>4</sup>

<sup>1</sup> Source: My College Options®/ACTE research study (2016). National sample includes 40,192 high school CTE students., <sup>2</sup> Jacobson and Mokher, Florida Study of Career and Technical Education, 2014, as cited in the 2014 National Assessment of CTE Final Report, <sup>3</sup> NRCCUA® and ACTE 2016, <sup>4</sup> Schneider 2013, College Measures

# CURRICULUM FOR AGRICULTURAL SCIENCE EDUCATION (CASE)

(3-year pathway)

## Articulated Credit through University of Maryland (Institute of Applied Agriculture)

Did you know that when populations and food quality needs increase, productive agricultural land areas decrease? Due to these issues, the agriculture industry will need the best problem-solvers and scientists to address concerns of the changing world. If you think that you want to help save the world, then the Curriculum for Agricultural Science Education (CASE) pathway may be for you. This pathway offers two foci—Animal Science and Natural Resources—and involves the study of communication, the science of agriculture, plants, animals, natural resources, and agricultural mechanics. You will learn to solve problems, conduct research, analyze data, work in teams, and take responsibility for your work, actions, and learning. Students successfully completing the program of study are equipped to pursue areas of

study in college and the expanding career fields related to environmental, agriculture, and natural resources. Students may also earn college credit.

## Curriculum for Agricultural Science Education (CASE) Program of Study:

GRADE 10	Introduction to Agriculture, Food, and Natural Resources
GRADE 11	Principles of Agriculture—Animal or Natural Resources and Ecology
GRADE 12	Animal and Plant Biotechnology or Environmental Science Issues
GRADE 12	Agriculture Research and Development (Capstone)



## Possible College Majors

- Environmental Science
- Environmental Engineering
- Environmental Law and Public Policy
- Natural Resource Management
- Human Ecology
- Agricultural Management
- Environmental Urban Planning
- Agro Ecology
- Marine Ecology



## Possible Careers

- Agronomist
- Greenhouse Supervisor
- Soil Scientist
- Environmental Lawyer
- Environmental Planner
- Wildlife Biologist
- Forest Ranger
- Urban Planner
- Food Safety Inspector
- Agricultural Marketing Representative
- Food Product Developer
- Veterinarian



## Department of Career and Technical Education

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301.669.6012

## For Program Specific Information

[www.pgcps.org/cte](http://www.pgcps.org/cte)



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