

# Natural Resource Management

CCCTC Completer Program - 6 Credits

Spring of Junior year  
Fall of Senior year

The Natural Resource Management program prepares students for careers in the Energy and Natural Resources cluster. Students develop skills in environmental science, ecological conservation, and technologies related to natural resource management.

## 11th Grade Course Sequence

Students are encouraged to take CASE Introduction to Agriculture, Food, and Natural Resources.



Honors-level course with hands-on projects exploring land use, water quality, stewardship, and environmental agencies. Students examine the natural world through studies of biomes, air, water, and energy while learning about resource conservation.

Honors-level specialization course emphasizing research and sustainable solutions to environmental challenges. Students practice data analysis, critical thinking, and independent problem-solving through environmental case studies.

Honors-level course introducing geospatial information systems (GIS) and unmanned aircraft operations. Students explore the use of drones in environmental technology and prepare for the FAA Remote Pilot Certification and Erosion and Sediment Control exams.

## 12<sup>th</sup> Grade Paths:

Senior students will pursue 1 of 3 different paths to further their Natural Resource Management Careers.

### 1. Geographic Information Systems

Students in GIS will learn the technology needed to gather geospatial data by making high quality maps and cartographic concepts. Lab work and data collection analysis are also used to uncover complex spatial information.

### 2. Unmanned Aircraft Systems

Students in this course will explore drone technology and its applications across multiple industries. Through hands-on flight training and simulation, students will learn to operate and manage unmanned aircraft safely. The course prepares students to earn their FAA Remote Pilot Certification

### 3. NRM Capstone

Students will utilize and apply their skills learned in previous NRM classes to make an individualized senior project. The project involves problem solving and research in a specific career field. Experiences may include research projects, portfolio development, or work-based learning opportunities.

#### Related Careers

- Naturalist
- Environmental Scientist
- Land Manager
- GIS Technician

- Forester
- Park Ranger
- Natural Resource Manager
- Urban/Regional Planner

- Environmental Engineer
- Conservationist
- Drone Pilot
- Geographer