



Natural Resources Management

2-Year Program

Mineville Campus

In the Natural Resources Management Program, students engage in hands-on learning based on current industry standards relating to sustainable forestry techniques, heavy equipment operation and maple syrup production. This program is designed to give students a better understanding of our natural resources as they train for a variety of outdoor careers. Students will learn through experience and develop both the skills to perform work properly and cultivate sensitivity to the environment in which the students work. Students will learn environmental studies, forestry and general heavy equipment operation in the outdoors. This diverse instruction will develop the skills needed to become successful in a wide variety of environmental conservation and management careers.



Program Highlights

- Heavy Equipment
- Operation & Maintenance
 - Backhoe
 - Bulldozer
 - Excavator
- Specialized Tree Operations
- Turf Management
- Construction Surveying –Traditional and Laser
- Computer Aided Instruction
- Welding
 - OAW
 - SMAW
 - MIG
 - TIG
 - Plasma Arc Cutting

Career Connections

- Forester
- Surveyor
- Landscape Architect
- Environmental Engineer
- Welder
- Environmental Technician
- Forest Technician
- Materials Technician
- Heavy Equipment Operator

Articulation Agreements

- Clinton Community College
- Paul Smith's College

Certifications

- Level I Game Logging
- First Aid/CPR
- OSHA-10: Construction
- NWRC/21st Century Skills

Course of Study

Heavy Equipment

Operation

- Excavating
- Grading
- Backfilling
- Trenching to grade
- Stockpiling
- Lubrication and service
- Preventive maintenance
- Slot dozing

Forest Technician

- Timber cruising
- Timber cutting
- Tree identification
- Silviculture Practices
- Map & compass

Landscape Technician

- Lawn construction
- Tree and Shrub Planting
- Landscape maintenance
- Landscape construction
- Cost estimates

Maple Syrup Production

- Tree tapping
- Bush management
- Evaporator operation
- Canning/Grading

Surveying

- Establishing Contours
- Building sit layout
- Setting grade stakes/off set method
- Setting grade stakes/effluent and water lines
- Horizontal taping
- Profile surveying
- Differential surveying

Welding Apprentice

- OAW
- Cutting
- SMAW
- MIG
- TIG

Chainsaw Operation

- Basic field maintenance
- Shop maintenance and repair
- Tree felling/bore cut
- Limbing
- Bucking
- Spring pole safety cut
- Hand sharpening chain

