



## Environmental Conservation & Forestry

2-Year Program

Plattsburgh Campus

In the Environmental Conservation and Forestry Program, students engage in hands-on learning based on current industry standards relating to sustainable forestry techniques, heavy equipment operation, maple syrup production, horticulture and arboriculture. This program is designed to give students a better understanding of our natural resources as they train for a variety of outdoor careers. Applied learning is provided through project-based learning in our out-of-doors classroom. All students learn basic seed germination and propagation through our greenhouse operation. From ordering the bedding materials and seeds, to transplanting seedlings, followed by in-house sales, our students gain a working knowledge of the greenhouse industry. Students learn how to safely remove hazardous trees from the top down as they train with modern tree climbing equipment and techniques both on and off campus.



## Program Highlights

- Chainsaw Safety & Operation
- Precision Tree Felling
- Forest Management
- Greenhouse Management
- Maple Syrup Production
- Arboriculture (Tree Climbing)

## Career Connections

- Post-Secondary Education
- NYS Logger Training
- Arboriculture Technician
- Horticulture Technician
- Heavy Equipment Operator
- Forest Technician
- Maple Producer
- Surveyors Aide

## 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

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### Chainsaw Operator

- Safety
- Basic Operation
- Basic Field Maintenance
- Shop maintenance
- Tree felling
- Limbing
- Bucking
- Spring pole safety cut
- Hand sharpening chain

### Forest Technician

- Timber cruising
- Tree identification
- Fire control
- Silviculture practices
- Insects and disease
- Map and compass
- Chainsaw core
- Power/hand tool core
- Safety core
- Computer core

### Heavy Equip. Operation -

#### Skidder Entrance Level

- General operation
- Winch control
- Log hitching
- Deck operation
- Maintenance
- Safety core
- Chainsaw core

### Horticulture

- Greenhouse management
- Plant identification
- Greenhouse maintenance
- Propagation
- Marketing
- Safety core
- Pesticides
- Computer core

### Heavy Equipment Operator - Dozer Entrance Level

- Excavation
- Backfilling
- Grading/leveling
- Winch operation

- Safety core
- Maintenance
- 25 hour operation time

### Surveyors Aide

- Map and compass
- Reading angles and horizontal distances
- Chainsaw core
- Safety core
- Computer core
- Abney hand level
- Profile leveling
- Differential leveling

### Heavy Construction Laborer

- Basic Heavy Equipment Operation
- 25 hr. combined operation time
- Dozer/backhoe/skidsteer
- Traffic control
- Power tool core
- Hand tool core
- Chainsaw core
- Safety core

### Forest Logging

- Tree felling by using game of logging
- Tree skidding
- Log scaling
- Deck operation
- Tree identification
- Chainsaw core
- Safety core
- Computer core
- Skidder operator

### Maple Producer

- Tree tapping
- Line Maintenance
- Evaporator operation
- Canning/grading
- Bush development
- Chainsaw core
- Computer core
- Safety core
- First Aid/CPR