



# Natural Resources Syllabus

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## Course Description:

In the Natural Resources Program, students are exposed to the many outdoor related careers that exist in our region.

First year students learn the work habits needed to be successful:

- Professional Skills
- How to work as a team
- Fundamental Work skills
- Basic content knowledge
- Technical Skills

Second year students continue their learning and participate in job shadows to identify areas of high interest to chart a path into their future careers.

Students explore post-secondary education opportunities. Exemplary students can participate in Cooperative Education opportunities, which help the student secure a start in their chosen field.

## Classroom Expectations and Goals:

**Respect:** Students are expected to be respectful of others and the shared right to learn.

**Engage:** Students are expected to actively participate in their learning.

**Safe:** Students are expected to understand that safety is no accident.

The goal of this class is to help students to identify careers that interest them and give them the skills and knowledge they will need to be successful.

## Assignment Policy:

Assignments are due by Friday at the end of the week.

Assignments will be accepted for one week with a deduction due to being submitted late.

Extensions will be given on a case by case basis.

**Embedded Credit:** Science

## Common Standards Assessed in Every Program:

**Communication:** ESS02.01 Select and employ appropriate reading and communication strategies to learn and use technical concepts and vocabulary in practice.

**Leadership and Teamwork:** ESS07.03 Employ teamwork skills to achieve collective goals and use team members' talents effectively.

**Technical Skill:** ESS10.01 Employ information management techniques and strategies in the workplace to assist in decision-making.

**Problem Solving/Critical Thinking:** ESS03.01 Employ critical thinking skills independently and in teams to solve problems and make decisions (e.g., analyze, synthesize and evaluate).

## Units of Study:

### Level One

- Safety
- Chainsaw and Tool
- Heavy Machinery and Tractor Safety
- Soil
- Aquatics / Watershed
- Agro Forestry Unit: Apples, Maple
- Wildlife
- Forestry
- Employability Portfolio (Resume and Code of Ethics)
- Community Service Opportunities

### Level Two

- Soils
- Heavy Machinery and Tractor Safety
- Work Projects
- Forestry
- Wildlife
- Aquatics
- Community Service Opportunities
- Agriculture, Horticulture/Greenhouse unit, Plant Sale
- Employability Portfolio and Student Led Conference
- Various competitions: Land Judging, Winter Tree ID, FFA, Game of Logging, Timbersports, Vermont Envirothon

## Industry Recognized Credentials:

### Level One:

- Game of Logging Levels 1 and 2

### Level Two:

- Game of Logging Levels 3 and 4
- Tractor Safety
- First Aid and CPR/AED
- WorkKeys National Career Readiness Certification (NCRC)

## Grading Categories and Weights:

### Technical Skills 30%

- Safety
- Follows program standards
- Engagement

### Communication 20%

- Follows directions
- Professionalism

### Leadership and Teamwork 30%

- Positive attitude in program
- Appropriate interactions

### Problem Solving and Critical Thinking 20%

- Completes assignments
- Completes tasks

## Standards Unique to Natural Resources:

- Technical skills related to equipment, tool and chainsaw operation and safety
- Employability skills that focus on job-specific skills
- Safety, health and environment skills that focus on Natural History and change
- Problem solving/critical thinking skills that focus on human impacts upon the Earth