



Natural Resources Syllabus

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Course Description:

The students who enroll in the Natural Resources Program like to be outdoors. It is our job to show our students the many careers that are outdoor related. For those students who have identified areas of high interest we help chart a path into those careers either through encouraging post-secondary education or helping the student land a job in their chosen field.

The main areas of study are: Safety; Forestry; Natural History; Water; Soils; Agriculture; and Horticulture.

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.

Safety - Students are expected to understand that safety is no accident.

The goal of the class - To motivate students to identify careers that interest them.

Embedded Credit: Science

Assignment Policy:

Students are always given ample time to complete assignments. On any assignment given, students will have at least 48 hours to complete. Some larger assignments will take weeks to complete. These types of assignments include creating maps, slideshows and videos.

Concurrent Enrollments Offered:

- Burls to Boards, Vermont Technical College, 3 credits

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 1

- Forest Technology & Math Unit
- Chainsaw & Equipment Unit
- Cabin Unit
- Glacier Unit
- Water Unit
- Maple Unit
- Geography/Mapping Unit
- Basics of Good Forestry Unit
- Employability Portfolio (Resume & Code of Ethics)

Level 2

- History Unit
- Soils Unit
- Senior Fall Work Project
- Winter Forestry Unit
- Winter Work Project
- Horticulture/Greenhouse
- Chainsaw Skills

Articulation Agreements:

- Paul Smith's College
- University of Maine - Fort Kent
- SUNY Cobleskill
- Keene State College

Grading Categories and Weights:

Technical Skill	25%
Communication	25%
Leadership & Teamwork	25%
Problem Solving & Critical Thinking	25%
Total	100%

Industry Recognized Credentials:

- Game of Logging Levels I & II (Northeast Woodland Training Inc.)
- AED/CPR and First Aid
- WorkKeys National Career Readiness Certification (NCRC)

Standards Unique to Natural Resources:

- Technical skill related to equipment and chainsaw operation and safety
- Employability skills that focus on job-specific math 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