

# **Randolph Technical Career Center**

17 Forest Street  
Randolph, Vermont 05060

## **Program Syllabus 2011-2012**

Program: **Environmental Resource Management**

Embedded Credit: **Science**

Instructor: **Mr. Gerry Reymore**

**Program Description:** The mission of this program is to expose students to natural science related careers and skills. The fields of natural resources and environmental sciences contains time honored skills and rich history, but are constantly changing and improving due to increased scientific knowledge and advancements in technology. The areas of study focused upon in this program will be Soils, Water, Aquaculture, Wildlife, Forestry, Mapping, Surveying, Geographic Information Systems, Agriculture, Sugaring, Plant Science, Animal Science, Business and Professional Development. Through the understanding and application of the skills learned in these areas, future choices in career and educational directions can be accomplished.

The format of this program will involve classroom study with focused field labs and project-oriented activities. Within each area of study, career objectives and business applications will be thoroughly explored through the use of field trips to business operations, guest speakers, and hands-on demonstrations and projects. There will be an emphasis on promoting teamwork and professional development.

**Course Objectives:** At the completion of this course students will demonstrate:

1. Understanding of basic concepts within each focus area.
2. Knowledge of scientific methods.
3. Understanding of project planning and procedures.
4. Ability to interpret data and make decisions.
5. Understand and explain the importance and function of each focus area.
6. Apply computer and information skills.
7. Develop an understanding of business operations and entrepreneurship.
8. Ability to relate hands-on experiences for career and educational choices.
9. Understand the application and importance of technology to production.
10. Safely operate related tools and equipment.
11. Understand safety requirements in shop/field/lab environments.

**Classroom/Field Expectations:**

1. Independent Thinking: Ability to evaluate and make decisions through investigation.
2. Initiative: Desire to work to individual potential.
3. Maturity: Act appropriately in a variety of settings inside and outside the classroom.
4. Respect/Honesty: Respect for individual, as well as instructor, team, and others.
5. Accountability: Take responsibility for behavior and work assignments.

**Course Completion Requirements/Criteria for Evaluation:**

1. Competency and completion of course objectives.
2. Satisfactory completion of homework and lab assignments.
3. Class Participation.
4. Quizzes and Tests.
5. Regular class attendance is expected.

**Grading Protocol:**

<b>Project/Assignment</b>	<b>Percentage of Grade</b>
Quizzes/Tests	20%
Homework/Lab Assignments	20%
Application of Knowledge, Attitude, Responsibility, Initiative, Appearance Participation, Professionalism, Safety and Care of Equipment	30%
<b>Total</b>	<b>100%</b>

In addition to the above, students are also assessed in the following ways:

1. Level of understanding of material presented.
2. Listening and reading skills.
3. Ability to help others and work within a group.
4. Ability to work independently and/or seek assistance when necessary.
5. Professionalism.

**Environmental Resource Management  
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**Program  
Of  
Study**

**Gerry Reymore  
Program Instructor  
[greymore@randolphtech.org](mailto:greymore@randolphtech.org)**

Randolph Technical Career Center  
17 Forest Street  
Randolph, VT 05060  
728-9595 ext. 413  
[www.randolphtech.org](http://www.randolphtech.org)

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**Post High School Occupations and Colleges**

**Typical Occupations**

Forest Technician  
Tree Service Worker  
Farmer and Sugarmaker  
Sawmill Operator  
Outdoor Power Equipment Operator  
Outdoor Power Equipment Technician  
Landscape Technician  
Plant Nursery Worker  
Greenhouse/Plant Center Technician  
Surveying and Drafting Technician  
Surveying Instrument Operator

**Colleges Attended**

Paul Smith's College  
State University of New York, College of Environmental Science & Forestry  
New York State Ranger School  
Castleton State College  
Unity College  
Sterling College  
Johnson State College  
Vermont Technical College  
Community College of Vermont  
University of Vermont

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**Recommended Courses and Activities Prior to Enrollment**

**Recommended Courses**

Math- Math Connections II or Grade Equivalent

English- Grade Equivalent

Science- Ecology, Biology or Earth Sciences

Health- Requirements Completed

Drivers Education- Requirements Completed

Physical Education- Requirements Completed

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**Industry Recognized Certifications (IRC)**

Outdoor Power Equipment Operation (Bronze Level)- Stihl Equipment Corp.

Outdoor Power Equipment Operation (Silver Level)- Stihl Equipment Corp.

Game of Logging (Level I)- Northeast Woodland Training, Inc.

Game of Logging (Level II)- Northeast Woodland Training, Inc.

Soil and Land Judging Certification- FFA, Inc.

Sawmill Operation and Lumber Production Certification- Wood-Mizer Products, Inc.

Pesticide Applicator License (Private Landowner)- State of Vermont

First Aid and CPR- Red Cross

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**Articulation Agreements**

**Current**

**Paul Smith's College- 3 credits- Introduction to Forestry Management**

Community College of Vermont-3 credits- Introduction to College Studies (completion includes voucher for additional 3 credit course of student's choice)

**Pending**

Vermont Technical College- 3 credits- Introduction to Agricultural Studies

Vermont Technical College- 3 credits- Introduction to Environmental Science

Paul Smith's College- 3 credits- Introduction to Environmental Studies

State University of New York, College of Environmental Science and Forestry- 3 credits-  
Introduction to Environmental Sciences

State University of New York, Ranger School- 3 credits- Introduction to Forest Management