

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES



**CLASS IV - SOIL EVALUATOR  
EXAMINATION ELIGIBILITY  
APPROVED SOIL COURSE LISTING**



2/00

A total of nine (9) college credits in soil related courses is the minimum education prerequisite to establish eligibility to take the RIDEM Class IV-Soil Evaluator exam; completion of this educational requirement does not imply that one is likely to pass the Class IV examination.

On the reverse is a listing of acceptable courses within the soil discipline that the RIDEM has compiled from nearby colleges and universities. The listing identifies primary, secondary and tertiary soil related courses. **The primary list contains soil science courses which are preferred and strongly recommended; Soil Morphology and Mapping is most relevant to the soil evaluation process and therefore highly recommended.** The secondary list includes soil courses less relevant to the ISDS siting process, but which are considered supportive electives. The tertiary list includes courses which are sufficiently related to the soil-water disciplines to be allowed for consideration in one's overall educational background. **At least six (6) credits must come from the primary or secondary list. A maximum of one (1) course (3 credits) will be accepted from the tertiary list. For those interested in pursuing course work to meet eligibility requirements, DEM recommends the following courses: Introduction to Soil Science, Soil Morphology, and the Capstone Course.**

This list is subject to revisions as other academic institutions provide course listings and descriptions to the RIDEM.

If you hold credits in similar courses from an academic institution not listed, or otherwise have taken a course you believe should be considered for soil related credit, DEM will evaluate the courses as part of the Class IV application review process. Decisions to approve a course will be based on the scope and content of the course curriculum. Courses from other disciplines and institutions will be considered on a case-by-case basis through the licensing application process.

In addition to the completion of 9 credits in soil science, work experience is also a prerequisite for the Soil Evaluator exam. Specifically, the work experience must be in soil studies and percolation testing for septic system design in Rhode Island or in soil classification, mapping, interpretation or a combination thereof. A minimum of two (2) years of work experience is required for those who hold a bachelor's degree or graduate degree in soil science, geology, engineering or similar discipline. Four (4) years of work experience is required for those without a degree or a degree in an unrelated field.

## **PRIMARY COURSE LISTING**

### University of Rhode Island

NRS-212-Intro. to Soil Science  
NRS-351-Soil Morphology Practicum  
NRS-471-Soil Morphology and Mapping  
NRS-567-Soil Genesis and Classification  
NRS-568-Soils and On-Site Evaluation  
(Capstone Course)

### University of Massachusetts-Amherst

PLSOIL - 105 - Soils  
PLSOIL - 565/566 - Soil Formation and Classification  
PLSOIL - 590M - Soil Morphology  
PLSOIL - 597T - Soil Morphology and Mapping

### University of Connecticut

PLSC-205-Soil Morphology, Genesis and Taxonomy  
PLSC-250-Soils

## **SECONDARY COURSE LISTING**

### University of Connecticut

CE-403-Wastewater Engineering for Unsewered Areas  
PLSC-253/W-Soils, Environmental Quality & Land Use  
PLSC-259C-Soil Chemistry  
PLSC-378-Advanced Soil Chemistry

### University of Massachusetts-Amherst

PLSOIL-390D-Soils and Land Use  
PLSOIL-575-Soil Chemistry  
PLSOIL-570-Soil Physics  
PLSOIL-830-Advanced Soil Chemistry

### University of Rhode Island

NRS-450-Soil Conservation and Land Use  
NRS-412-Soil-Water Chemistry

## **TERTIARY COURSE LISTING**

### University of Connecticut

CE-240-Soil Mechanics and Foundations  
CE-346- Groundwater Flow and Drainage  
CE-406-Groundwater Flow and Modeling  
GEOL-102-Intro. Geology  
GEOL-223-Glacial Processes and Materials  
GEOL-234C-Intro. to Groundwater Hydrology  
GEOL-251-Earth Surface Processes  
GEOL-344-Environmental Geology  
GEOL-355-Advanced Hydrogeology  
NRME-260Q/260P-Soil and Water Management and Eng.  
NRME-326-Water Transport in Soils  
PLCS-377-Soil Analysis

### Roger Williams College

ENGR-314-Soil Mechanics  
ENGR-417-Groundwater Hydrology

### Brown University

ENG-136-Soil Mech. & Principles of Foundation Eng.  
GEL-22-Physical Processes in Geology  
GEL-109-Field Geology

### Community College of Rhode Island

GEL-1010-General Geology

### University of Rhode Island

CVE-381-Geotechnical Engineering  
CVE-587-Flow and Seepage Pressures  
CVE-588-Groundwater Hydrology  
GEL-103-Physical Geology  
GEL-203-Field Geology  
GEL-210-Geomorphology  
GEL-483-Hydrogeology  
GEL-583-Advanced Hydrogeology  
NRS-312-Methods in Soil and Water Analysis  
NRS-461-Hydrology and Water Management  
NRS-510-Soil-Water Relations

### Three Rivers Community Tech. College

CIV-2200/2201-Soils

### University of Massachusetts-Dartmouth

CEN-403-Soil Mechanics

### University of Massachusetts-Amherst

CEE-320-Soil Mechanics  
CEE-590B-Groundwater

### MASS. SOIL EVALUATOR CERTIFICATION (3.0credits)