

ENVIRONMENTAL SCIENCE FIELD TECHNICIAN OPTION – M036

A.S. in Environmental Science

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COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			20		
Language and Literature I	ENG 101	Appropriate score on Placement Tests, or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099	3		
Language and Literature II	ENG 102	ENG 101	3		
General Chemistry I or Principles of Chemistry I or Inorganic Chemistry I (Fall)	CHM 101 CHM 113 CHM 121		4		
General Chemistry II or Principles of Chemistry II or Inorganic Chemistry II (Spring)	CHM 102 CHM 114 CHM 124	CHM 101, CHM 113, or CHM 121 CHM 113 or equivalent. High School Algebra I or equivalent recommended. CHM 113 or CHM 121	4		
Social Science Elective (B)			3		
State and Local Government (B)	POL 120		3		
PROGRAM REQUIREMENTS ¹			4142		
Environmental Seminar I (Spring)	ENV 115		1		
Principles of Environmental Science I(Fall)	ENV 120		4		
The Natural History of New England	ENV 124		4		
Mapping with Geographic Information Systems	ENV 125		3		
Environmental Geology	ENV 137		4		
Soil and the Environment	ENV 138		4		
Principles of Environmental Science II (Spring)	ENV 140		4		
Environmental Seminar II (Spring)	ENV 202	ENV 115	1		
Principles of Environmental Site Assessment (Spring)	ENV 230	ENV 120, ENV 140, ENV 137 concurrently	3		
Aquatic Ecology and Pollution (Fall)	ENV 253	One semester of environmental science or biology	4		
Environmental Internship I (Spring) ²	ENV 270	CHM 102, CHM 114, or CHM 124 previously or concurrently; ENV 140; and permission of program coordinator.	3		
American Environmental History (C) (Spring)	HIS 225		3		
Math Elective ³			3-4		
Total Credits			61-62		

PROGRAM OVERVIEW
This option emphasizes environmental field investigation and includes strong laboratory preparation. Students gain an understanding of environmental science principles as they relate to the movement of contaminants through the ecosystem. Practical experience in the use of specialized sampling and analysis equipment and the methods to assess, control, and prevent environmental contamination are included. Wetland delineation, soil analyses, landfill characterization, and groundwater movement analysis are representative of field activities. Classroom work is supplemented and enriched by an environmental internship field experience. Graduates of this option are ideally suited for positions in government, industry, and consulting, which require field investigation or inspection and some laboratory analysis.

NOTES:

¹ Students must achieve a minimum grade of “C” in all ENV prefix courses in order to graduate from these options. Students receiving less than a “C” grade in these courses are placed on probation until they retake the courses for a grade of “C” or better.

² An integral part of this program is an internship/cooperative education field experience with an area industry, governmental agency, or environmental consulting firm. These positions, many of which are paid, allow students the opportunity to put theory into practice and to gain the knowledge and experience necessary to make informed career decisions, to set career goals, and to plan further educational experiences.

³ Students should choose one of the following courses with the advice and consent of an Environmental Science advisor based on results of the Mathematics Placement Examination and individual career goals: MTH 108 or MTH 142.