

Requirements for MS degree in Civil Engineering – Environmental Engineering Emphasis
(thesis option)

Current GRE Policy:

All applicants must take the GRE Exam by the end of their first year in the program.

MS Prerequisites – Environmental Engineering Emphasis

BS in an ABET Accredited Engineering program, including an introductory statistics course OR the following courses:

Prerequisite Courses

Mechanics I
Calculus - 2 semesters
Fluid Mechanics
Basic Environmental Engr.
Chemistry - 2 semesters
Physics (calculus-based)
Statistics

UNH Equivalent

CiE 525 or ME 525
MATH 425, MATH 426
CiE 642 (official audit required)
ENE 645 (official audit required)
CHEM 403, CHEM 404
PHYS 407
MATH 644

Some of these prerequisite courses may be waived upon attainment of the EIT certificate before graduation through passing the National Fundamentals of Engineering (FE) Exam.

MS Requirements – Environmental Engineering Emphasis

See the attached requirements and course lists.

**UNIVERSITY OF NEW HAMPSHIRE
DEPARTMENT OF CIVIL ENGINEERING
MASTER OF SCIENCE REQUIREMENTS
ENVIRONMENTAL ENGINEERING EMPHASIS**

Name: _____
Date of Entry: _____

Advisor: _____

Core Courses (17 cr.)		Credits	Semester	Grade
	Water Chemistry (CiE 849)	4	_____	_____
	Environmental Engineering Microbiology (CiE 856)	4	_____	_____
	CiE Seminar (CiE 900)	1	_____	_____
	Advanced Physicochemical Treatment Design (CiE 944)	4	_____	_____
	Advanced Bioenvironmental Engineering Design (CiE 946)*	4	_____	_____

Elective Courses: (choose a minimum of 8 cr.)	Course	Credits	Semester	Grade
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____

Thesis: (6 cr.)	Date Proposal Accepted:	_____	Credits
	Date Defense:	_____	
	Date Thesis Accepted:	_____	_____

Total Credits Required (31)** Total Credits Attained: _____

* Students will not be permitted to take CiE 946 unless they have received credit for CiE 642 (grade or pass/fail), ENE 645 (grade of B- or better required) or equivalent courses.
** All students must take or have taken a statistics course like Math 644 or equivalent (and get a B- or better) in order to graduate

List of Elective Courses:

Public Health Engg.
(CiE 840) 3 cr.

Engineering Hydrology
(CiE 845) 3 cr.

Solid and Hazardous Waste Design
(CiE 848) 4 cr.

Advanced Groundwater Topics
(CiE 945) 3 cr.

Independent Study
(CiE 895) 1-4 cr.

Solid and Hazardous Waste Engineering
(CiE 842) 3 cr.

Intro. to Marine Pollution and Control
(CiE 847) 3 cr.

Design of Water Transmission Systems
(CiE 855) 4 cr.

Hydrologic Monitoring
(CiE 940) 3 cr.

Industrial Wastewater Treatment
(CiE 839) 3 cr.

Advanced Hazardous Waste Sampling and
Analysis (CiE 943) 4 cr

Elective courses in other departments may be acceptable upon approval by the student's advisor and graduate committee.

Notes:

1. Students must petition in order to receive credit for more than 4 credits of independent study.

Revised 04/02/2004