M.S. in Environmental Engineering - Thesis Option (Plan A)

This summary is intended to assist students in planning their program of study and presents commonly needed information in this regard. General University degree requirements are fully enumerated in the Graduate School Policies and Procedures. The information presented here is a combination of the general requirements of the Graduate School and specific departmental requirements.

General Requirements

The Degree of M.S., Environmental Engineering is awarded through either the Civil or Chemical and Biological Engineering Departments, depending on the student's background and professional focus. Degree candidates correspondingly must meet the requirements of the appropriate Department as enumerated below, as well as the requirements of the Graduate School. Each student's graduate adviser and committee will work with the student to prepare a Program of Study listing the courses the student will take. This program must be submitted to The Graduate School before the end of the second semester of study.

Common requirements for both Departments include:

- Minimum 30 credits total (including thesis credits)
- Minimum 20 credits coursework (4xx or 5xx-level)
- Minimum 10 credits: Master's Thesis (ECHM 590) or Master's Thesis (EBIO 590) or Master's Thesis (EENV 590)
- Maximum of 9 credits taken at the 4xx level may be included in the program of study
- Courses graded below C- cannot be used to satisfy degree requirements
- Three credits (minimum) registration required during term of:
  - Comprehensive examination and thesis defense
  - Graduation (or 1 credit with in absentia request on file)

Additional specific requirements by department are listed below.

Civil Engineering Department Specific Requirements

Curriculum requirements for the M.S. degree in Environmental Engineering in the Civil Engineering Department are highly individualized and established in consultation with and approved by the student's graduate committee. The courses listed below are often considered when establishing the program of study for a particular student. There are also many other courses offered at MSU that may support a student's academic goals. The Civil Engineering Department also requires all students to take one credit of graduate seminar - ECIV 594 - during their final semester, which is in addition to the 30 credit minimum.

EENV 592 Independent Study 1-3
EENV 598 Internship 2
ECIV 529 Groundwater Contamination 3
ECIV 594 Seminar (Required) 1
EBIO 566 Fundamentals of Biofilm Engr 3
ECHM 503 Thermodynamics 3
ECHM 510 Reaction Engineering/Modeling 3
ECHM 533 Transport Phenomena 3

Chemical and Biological Engineering Department Specific Requirements

Master of Science in Environmental Engineering degree requirements through the Chemical and Biological Engineering Department are:

Requirements

ECHM 594 Seminar (may be taken twice for credit) 1
ECHM 503 Thermodynamics 3
ECHM 533 Transport Phenomena 3
ECHM 561 Environ Eng Reactor Theory 2
or ECHM 510 Reaction Engineering/Modeling
or EBIO 566 Fundamentals of Biofilm Engr
ECHM 562 Water Treatment Process/Design * 3
or EENV 563 Wastewater Treat Proc/Design
ECHM 590 Master's Thesis 1-10

Additional Recommended Courses

ECIV 529 Groundwater Contamination 3
EENV 534 Environ Eng Investigation 3

* Substitution for this course requirement may be approved by the committee after carefully considering the professional goals of the student.

Each student's graduate adviser and committee are to work with the student to prepare a Program of Study listing the courses the student will take. This program must be submitted to The Graduate School before the end of the second semester of study.
Font Notice

This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leepfrog for a draft with the correct fonts in place.