

**Graduate Student and Advisor Checklist  
MASTER OF SCIENCE PROGRAM  
Environmental Science and Technology**

**Personal Checklist**

(due) **Date**

**Form**

- \_\_\_\_\_ admitted to program
- \_\_\_\_\_ Advisory Committee formed (*end of 2<sup>nd</sup> semester*)
- \_\_\_\_\_ Proposed Plan of Study form in file (*end of 2<sup>nd</sup> semester*)
- \_\_\_\_\_ Research Proposal in file (*end of 2<sup>nd</sup> semester*)
- \_\_\_\_\_ Admission conditions (if any) satisfied
- \_\_\_\_\_ Course requirements completed:

**ENST FORM**

**ENST FORM**

<b>ENST M.S. Graduate Program - Summary of Requirements</b>				
<b>Area of Specialization</b>	<b>Soil and Watershed Sciences</b>	<b>Ecological Technology Design</b>	<b>Wetland Science</b>	<b>Ecosyst. Health &amp; Nat. Res. Mgmt</b>
M.S. Dept Admission	B.S. in related field; Undergraduate cumulative GPA of 3.0; GRE; Basic Science Requirement (a minimum of one semester of Calculus and 20 credits in Chemistry, Physics, Biology or Mathematics [beyond Calculus I]).			
Grad School Requirements	30 semester hours beyond the B.S. degree, including six hours of thesis research credit (799). Of the 24 hours required in graduate courses, at least 12 must be earned in a major area. A minimum of 12 credit hours must be earned at the 600 level or above			
ENST Core Requirements	ENST 602 - Research Principles and Methodology in Environmental Science and Technology (3 credits) ENST 702 - Communication and Professional Development in Environmental Science and Technology (2 credits) ENST 798 Graduate Seminar (2 semesters – 2 credits) One graduate level statistics course (from among, or equivalent to, those on approved list) 1;			
Specialization Requirements	Twelve credits of graduate level soil science courses. The 12 credits must be earned in any four of the following five areas: soil chemistry, soil physics, soil pedology, soil biology, soil fertility. All courses to be approved by the advisory committee.	Six credits of graduate level courses in ecology and six credits of graduate level courses in ecological design or related engineering courses. All courses to be approved by the advisory committee.	Twelve (12) credits from a list of approved graduate level courses <sup>2</sup> in Ecology, Soil Science and Hydrology, with a minimum of 3 credits from each of these three groups. All courses to be approved by the advisory committee.	Twelve (12) credits of graduate level courses, including ENST604 (3 credits) and 9 additional credits in Ecosystem Health and Natural Resource Management. All courses to be approved by the advisory committee.

\_\_\_\_\_ Application for Diploma form submitted to Grad School

**GRAD SCHOOL FORM**

\_\_\_\_\_ Thesis completed

\_\_\_\_\_ Nomination of Thesis Examining Committee form submitted to Grad School (cc ENST)

**GRAD SCHOOL FORM**

1 Approved Statistics Courses:

- BIOM 601 Biostatistics I (4)
- BIOM 602 Biostatistics II (4)
- BIOM 603 Biostatistics III (4)
- BIOM 621 Applied Multivariate Statistics (3)
- GEOG606 Quantitative Spatial Analysis (3)

2 Approved Courses for Wetland Science Specialization

**Ecology**

- ENST 650 Wetland Ecology (3)
- ENST 460 Wildlife Management (3)
- BSCI 460 Plant Ecology (3)
- PLSC 400 Environmental Plant Physiology
- MEES 645 Ecology and Management of Wetland and Submersed Aquatic Vegetation Systems (3)

- ENST 6xx Created and Restored Wetlands (3)
- BSCI 464 Microbial Ecology (3)
- MEES 610 Land Margin Interactions (4 credits)
- MEES 611 Estuarine Systems Ecology (3 credits)

**Soils**

- ENST 430\*\* Wetlands Soils (3)
- ENST 421 Soil Chemistry (4)
- ENST 721 Advanced Soil Chemistry (3)
- ENST 414 Soil Morphology, Genesis, and Classification (4)

**Hydrology**

- ENST 417 Soil Hydrology and Physics (3)
- ENCE 431 Hydrologic Engineering (3)
- ENCE 432 Ground Water Hydrology (3)
- ENCE 630 Environmental and Water Resource Systems I (3)
- GEOL 451 Groundwater Geology (3)
- GEOL 452 Watershed and Wetland Hydrology (3)
- GEOL 652 Advanced Watershed and Wetland Hydrology (3)

\*\*As part of the continued reorganization of the ENST department, these courses are being reorganized and will also be offered at the 600 level

- \_\_\_\_\_ Approved Program for the Master of Science form submitted to Grad School (cc ENST) **GRAD SCHOOL FORM**
  - \_\_\_\_\_ Final examination held
  - \_\_\_\_\_ Report of Examining Committee form submitted to Grad School (cc ENST) **GRAD SCHOOL FORM** *Form sent to advisor from Grad School*
  - \_\_\_\_\_ ENST Committee Report Form returned to dept. **ENST FORM**
  - \_\_\_\_\_ Signed thesis submitted to Grad School
  - \_\_\_\_\_ Thesis copy (pdf) submitted to ENST Grad. Coordinator for student file on MEGS
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**M.S. PLAN OF STUDY**  
**Environmental Science and Technology**

Candidate: \_\_\_\_\_ Student Number: \_\_\_\_\_

Check Current Program:    \_\_\_\_\_ Soil & Watershed Sciences  
                                  \_\_\_\_\_ Ecological Technology Design  
                                  \_\_\_\_\_ Wetland Science  
                                  \_\_\_\_\_ Ecosystem Health and Natural Resources Management

I. Admission Requirements: (Check if completed)

- \_\_\_\_\_ a. Calculus (1 semester)
  - \_\_\_\_\_ b. Basic science (20 credits) (Chem., Biochem., Physics, Biol, Math beyond Calculus)
  - \_\_\_\_\_ c. Other provisions: (if any) \_\_\_\_\_
- 

II. Course Requirements (List course number; must be 400 level or higher.):

A. All candidates must complete these courses:

- \_\_\_\_\_ a. ENST798 Seminar -- 2 Credits (Entrance and Exit)
- \_\_\_\_\_ b. ENST799 Research -- 6 Credits
- \_\_\_\_\_ c. ENST602 -- 3 Credits
- \_\_\_\_\_ d. ENST702 -- 2 Credits
- \_\_\_\_\_ e. One approved graduate level course in statistics -- 3 Credits
- \_\_\_\_\_ f. 600+-level courses – total of 12 credits or more

B. Soil & Watershed Sciences Candidates

- \_\_\_\_\_ a. Twelve credits of graduate level soil science courses. The 12 credits must be earned in any four of the following five areas: soil chemistry, soil physics, soil pedology, soil biology, soil fertility.

C. Ecological Technology Design Candidates

- \_\_\_\_\_ a. Six credits of graduate level courses in ecology
- \_\_\_\_\_ b. Six credits of graduate level courses in ecological design or related engineering courses.

D. Wetland Science Candidates

- \_\_\_\_\_ a. Twelve (12) credits from a list of approved graduate level courses in Ecology, Soil Science and Hydrology, with a minimum of 3 credits from each of these three groups.

E. Ecosystem Health & Natural Resources Management Candidates

- \_\_\_\_\_ a. Twelve (12) credits of graduate level courses, including ENST604 (3 credits) and 9 additional credits in Ecosystem Health and Natural Resource Management. All courses to be approved by the advisory committee.

III. List by semester all course work completed and planned for the M.S. degree. All M.S. programs must have a minimum of 12 credits of 600+-level courses<sup>3</sup> and a minimum total of 30 credits of 400+-level courses beyond the B.S. degree (of which, no more than 6 credits of 799 can be included among the 30).

Year	Semester	Course No.	Title	Credit	Grade

Approved: \_\_\_\_\_ Advisor  
 \_\_\_\_\_ Member, Advisory Committee  
 \_\_\_\_\_ “ “ “  
 \_\_\_\_\_ “ “ “  
 \_\_\_\_\_ “ “ “

Date \_\_\_\_\_

<sup>3</sup> Research credits (ENST799) do not count toward the 12 credits of 600+ level courses.

**RESEARCH PLAN/PROPOSAL COVER PAGE**  
**Environmental Science and Technology**

Candidate: \_\_\_\_\_ Student Number: \_\_\_\_\_

Check Current Program: \_\_\_\_\_ M.S. \_\_\_\_\_ Ph.D.

- \_\_\_\_\_ Soil & Watershed Sciences
- \_\_\_\_\_ Ecological Technology Design
- \_\_\_\_\_ Wetland Science
- \_\_\_\_\_ Ecosystem Health and Natural Resources Management

Title: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Indicate whether or not the project involves any of the following:

- |                              |                             |                                  |
|------------------------------|-----------------------------|----------------------------------|
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Human subjects                   |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Animal subjects                  |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Radioactive materials            |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Genetically engineered organisms |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Biological materials             |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Select Agent Toxins              |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Scientific diving                |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Boats Used in Research           |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Chemicals                        |

*(Any Yes responses may require completion of University forms or training.)*

**Approval:** The advisory committee has reviewed the attached research proposal and feels it is appropriate and sufficient for the degree program.

1. \_\_\_\_\_ 4. \_\_\_\_\_  
(Advisor)

2. \_\_\_\_\_ 5. \_\_\_\_\_

3. \_\_\_\_\_ 6. \_\_\_\_\_

**Environmental Science and Technology  
Committee Report Form  
Master of Science Candidate**

Candidate: \_\_\_\_\_ Advisor: \_\_\_\_\_

A. Thesis Title \_\_\_\_\_  
\_\_\_\_\_

B. Research (Exit) Seminar Date \_\_\_\_\_

C. Final Oral Examination (defense) Approval: Date \_\_\_\_\_

1. \_\_\_\_\_ (Committee Chair)

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_ (optional)

D. Anticipated termination date of student's appointment \_\_\_\_\_

Copies of this form should go to:

1. ENST Grad Office (Tina Scites)
2. ENST Business Office (Ruth Koster)