

**Graduate Student and Advisor Checklist  
DOCTOR OF PHILOSOPHY PROGRAM  
Environmental Science and Technology**

**Personal Checklist**

(due) <b>Date</b>		<b>Form</b>
_____	admitted to program	
_____	Advisory Committee formed ( <i>end of 2<sup>nd</sup> semester</i> )	
_____	Proposed Plan of Study form in file ( <i>end of 2<sup>nd</sup> semester</i> )	PhDForm2.doc
_____	Research Proposal in file ( <i>end of 2<sup>nd</sup> semester</i> )	ENSTForm2.doc
_____	Admission conditions (if any) satisfied	
_____	Preliminary examination held ( <i>end of 3<sup>rd</sup> year</i> )	
_____	Admission to Candidacy form submitted to Grad School (cc ENST)	Admission to Candidacy Form.doc
_____	Admission to candidacy approved by Grad School	
_____	<b><i>Must register each semester thereafter.</i></b>	
_____	Course requirements completed:	
_____	a. 12 credits 899	
_____	b. Entrance Seminar (798)	
_____	c. Exit Seminar (798)	
_____	d. approximately 50 or more credits post BS	
_____	f. ENST 602	
_____	g. ENST 702	
_____	h. Two Graduate Level Statistics Courses	
_____	i. <u>Soil &amp; Watershed Science</u> <u>Ecological Technology Design</u> <u>Wetland Science</u>	
_____	MS Courses      MS Courses      MS Courses	
_____	one semester of graduate level      one course in graduate level      one graduate level course	
_____	physical chemistry or biochemistry systems modeling one additional      in modeling	
_____	one additional graduate level      graduate level course in ecology,      two additional graduate	
_____	course in chemistry, biochemistry,      ecological design or ecological      level courses from within	
_____	physics, mathematics, engineering, engineering      the areas of Ecology, Soil	
_____	or computer science      Science, or Hydrology	
_____	Application for Diploma form submitted to Grad School      ( <i>from Grad School</i> )	
_____	<b><i>(Early in semester in which student expects to complete degree requirements by published deadline.)</i></b>	
_____	Appointment of Doctoral Examining Committee form submitted to Grad School (cc ENST)	Nomination & Thesis Form.doc
_____	<b><i>(At least 3 months prior to final exam and before deadline.)</i></b>	
_____	Dissertation completed	
_____	Final examination held	
_____	Report of Examining Committee form submitted to Grad School (cc ENST)	<i>(from Grad School)</i>
_____	ENST Committee Report Form returned to dept.	PhDForm3.doc
_____	Signed dissertation submitted to Grad School	
_____	Dissertation copy submitted to ENST Grad. Coordinator	

**Ph.D. PLAN OF STUDY**  
**Environmental Science and Technology**

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

Check Current Program:

- \_\_\_\_\_ Soil & Watershed Sciences
- \_\_\_\_\_ Ecological Technology Design
- \_\_\_\_\_ Wetland Science

**I. Admission Requirements: (Check if completed)**

- \_\_\_\_\_ a. Calculus (1 semester)
- \_\_\_\_\_ b. Basic science (16 credits) (Chem., Biochem., Physics, Math beyond Calculus)
- \_\_\_\_\_ c. Other provisions: (if any) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**II. M.S. Course Requirements (check if completed):**

**A. 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.

**B. 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.

**C. 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.

**III. Ph.D. Course Requirements (List course number. Must be 400 level or higher):**

**A. Soil & Watershed Science Candidates**

- \_\_\_\_\_ a. one semester of graduate level physical chemistry or biochemistry
- \_\_\_\_\_ b. one additional graduate level course in chemistry, biochemistry, physics, mathematics, engineering, or computer science.

**B. Ecological Technology Design Candidates**

- \_\_\_\_\_ a. one semester of graduate level systems modeling
- \_\_\_\_\_ b. one additional graduate level course in ecology, ecological design or ecological engineering.

**C. Wetland Science Candidates**

- \_\_\_\_\_ a. one graduate level course in modeling
- \_\_\_\_\_ b. two additional graduate level courses from within the areas of Ecology, Soil Science, or Hydrology.

**D. All candidates must complete these courses:**

- \_\_\_\_\_ a. ENST602 (may be taken during the MS program)
- \_\_\_\_\_ b. ENST702 (may be taken during the MS program)
- \_\_\_\_\_ a. Seminar (798) -- 2 Credits (Entrance and Exit)
- \_\_\_\_\_ b. Research (899) -- 12 Credits
- \_\_\_\_\_ c. Two graduate level statistics courses

IV. List by semester all course work completed and presently scheduled for the Ph.D. degree. The program shown must meet all requirements outlined above (Parts I-III). A minimum of 50 credit hours, exclusive of research, is generally scheduled beyond the B.S. level.

Post BS courses completed prior to beginning your doctoral program at UMD

Year	Semester	Course No.	Title	Credit	Grade

Courses to be completed during your doctoral program at UMD

Year	Semester	Course No.	Title	Credit	Grade

Approved: \_\_\_\_\_ Advisor  
 \_\_\_\_\_ Member, Advisory Committee  
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**RESEARCH 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

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. _____<br>(Advisor) | 4. _____ |
| 2. _____              | 5. _____ |
| 3. _____              | 6. _____ |

**ENST Committee Report Form  
Doctor of Philosophy Candidate  
Environmental Science and Technology**

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

I. Comprehensive Examination<sup>1</sup> Date \_\_\_\_\_

A. Committee Action

Passed       Failed

Date of Second Examination (if needed) \_\_\_\_\_

Passed       Failed

B. Examination Committee (signatures)

1. \_\_\_\_\_, Committee Chair
2. \_\_\_\_\_, Graduate School Representative
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

II. Dissertation Title and Seminar Dates

A. Dissertation Title: \_\_\_\_\_  
\_\_\_\_\_

B. Entrance Seminar Date \_\_\_\_\_

C. Exit Seminar Date \_\_\_\_\_

III. Final Oral Examination (defense) Approval<sup>2</sup> Date \_\_\_\_\_

1. \_\_\_\_\_, Committee Chair
2. \_\_\_\_\_, Graduate School Representative
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

PhDForm3.doc

<sup>1</sup>NOTE: A written exam followed by an oral comprehensive examination is required near the end of the student's course program. Both examinations must be scheduled within a one-month period, and must be passed prior to admission to candidacy for the Ph.D. The student must be admitted to candidacy at least one year before the date on which the degree will be conferred.

<sup>2</sup> A form received from the graduate school documenting the defense is also required to be completed and submitted.