## Personal Checklist

<table>
<thead>
<tr>
<th>(due) Date</th>
<th>Form</th>
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<tbody>
<tr>
<td>admitted to program</td>
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<tr>
<td>Advisory Committee formed <em>(end of 2nd semester)</em></td>
<td>PhDForm2.doc</td>
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<tr>
<td>Proposed Plan of Study form in file <em>(end of 2nd semester)</em></td>
<td>ENSTForm2.doc</td>
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<tr>
<td>Research Proposal in file <em>(end of 2nd semester)</em></td>
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<tr>
<td>Admission Proposal in file <em>(end of 3rd year)</em></td>
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<tr>
<td>Admission to Candidacy form submitted to Grad School <em>(cc ENST)</em></td>
<td>Admission to Candidacy Form.doc</td>
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<td>Admission to candidacy approved by Grad School</td>
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<td><em>Must register each semester thereafter.</em></td>
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**Course requirements completed:**

- a. 12 credits 899
- b. Entrance Seminar (798)
- c. Exit Seminar (798)
- d. approximately 50 or more credits post BS
- e. ENST 602
- f. ENST 702
- g. ENST 702
- h. Two Graduate Level Statistics Courses
  - i. Soil & Watershed Science MS Courses
  - one semester of graduate level physical chemistry or biochemistry
  - one additional graduate level course in chemistry, biochemistry, physics, mathematics, engineering, or computer science
  - one course in graduate level systems modeling
  - one additional graduate level course in ecology, ecological design or ecological engineering
  - one graduate level course in modeling
  - two additional graduate level courses from within the areas of Ecology, Soil Science, or Hydrology

- Application for Diploma form submitted to Grad School *(from Grad School)*
  
  *(Early in semester in which student expects to complete degree requirements by published deadline.)*

- Appointment of Doctoral Examining Committee form submitted to Grad School *(cc ENST)* Nomination & Thesis Form.doc
  
  *(At least 3 months prior to final exam and before deadline.)*

- Dissertation completed

- Final examination held

- Report of Examining Committee form submitted to Grad School *(cc ENST)* *(from Grad School)*

- ENST Committee Report Form returned to dept. PhDForm3.doc

- Signed dissertation submitted to Grad School

- Dissertation copy submitted to ENST Grad. Coordinator PhDForm1.doc
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

PhDForm2.doc
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

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<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Course No.</th>
<th>Title</th>
<th>Credit</th>
<th>Grade</th>
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### Courses to be completed during your doctoral program at UMD

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Approved: ________________________  Advisor

_____________________________  Member, Advisory Committee

_____________________________  “  “  “

_____________________________  “  “  “

_____________________________  “  “  “
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:
____ Yes ___ No  Human subjects
____ Yes ___ No  Animal subjects
____ Yes ___ No  Radioactive materials
____ Yes ___ No  Genetically engineered organisms
____ Yes ___ No  Biological materials
____ Yes ___ No  Select Agent Toxins
____ Yes ___ No  Scientific diving
____ Yes ___ No  Boats Used in Research
____ Yes ___ 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. _________________________________

ENSTForm2.doc
Candidate: ________________________________  Advisor: ________________________________

I. Comprehensive Examination

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. ________________________________ 5. ________________________________
   4. ________________________________ 6. ________________________________

II. Dissertation Title and Seminar Dates

A. Dissertation Title: _________________________________________________________
   _______________________________________________________________________
   _______________________________________________________________________

B. Entrance Seminar Date _________________________________________________

C. Exit Seminar Date _______________________________________________________________________

III. Final Oral Examination (defense) Approval

   Date ____________________________
   1. ________________________________, Committee Chair
   2. ________________________________, Graduate School Representative
   3. ________________________________ 5. ________________________________
   4. ________________________________ 6. ________________________________

1 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 data on which the degree will be conferred.

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