Graduate Student and Advisor Checklist DOCTOR OF PHILOSOPHY PROGRAM

Environmental Science and Technology Personal Checklist

(due) Date	Form
admitted to program	
Advisory Committee formed (end of 2 nd semester)	
Proposed Plan of Study form in file (end of 2 nd semester)	ENST FORM
Proposed Plan of Study form in file (end of 2 nd semester) Research Proposal in file (end of 2 nd year) Admission conditions (if any) satisfied	ENST FORM
Admission conditions (if any) satisfied	
Preliminary/Comprehensive examination held (end of 3 rd year)	ENST FORM
Preliminary/Comprehensive examination held <i>(end of 3rd year)</i> Admission to Candidacy form submitted to Grad School (cc ENST)	GRAD SCHOOL FORM
Admission to candidacy approved by Grad School Must registe	r each semester thereafter.
Course requirements completed:	
Application for Diploma form submitted to Grad School (Early in semester in which student expects to complete degree requirements by published deadline.)	GRAD SCHOOL FORM
Appointment of Doctoral Examining Committee form submitted to Grad Sc	chool GRAD SCHOOL FORM
(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)) GRAD SCHOOL FORM
Signed dissertation submitted to Grad School	
Dissertation copy (pdf) submitted to ENST Grad. Coordinator for student fi	le

Area of Specialization	Soil and Watershed	Ecological Technology	Wetland Science	Ecosyst. Health & Nat.
	Sciences	Design		Res. Mgmt
Ph.D. Dept Admission	M.S. Degree in a closely related field1; All admission requirements for the M.S. degree (ie Basic Science Requirement, GRE, etc).			
Grad School Requirements	12 credits of dissertation research (899); A dissertation based on original research			
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) Two graduate level statistics courses (from among, or equivalent to, those on approved list) 2;			
Specialization	Completion of M.S.	Completion of M.S.	Completion of M.S.	Completion of M.S.
Requirements	specialization requirement plus one graduate level course on chemistry or biochemistry3 and at least one additional graduate level course in chemistry, biochemistry, physics, mathematics, engineering, or computer science. All courses to be approved by the advisory committee.	specialization requirement plus one semester of graduate level modeling and one additional graduate level course in ecology, ecological design or ecological engineering. All courses to be approved by the advisory committee.	specialization requirement plus one graduate level course in modeling; two additional graduate level courses from within the areas of Ecology, Soil Science, or Hydrology. All courses to be approved by the advisory committee.	specialization requirement plus three additional graduate level courses in Ecosystem Health and Natural Resource Management. All courses to be approved by the advisory committee.

1 In special cases, exceptional students may be admitted to a Ph.D. program without first completing an M.S. degree. These students should have an exceptional academic record and test scores and should have demonstrated significant research experience during their B.S. program (such as completion of a research based honors thesis.)

2 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)

GEOL 651, Statistics for Geoscientists

GEOL 789C, Advanced Data Analysis Workshop

BIOL 709D, Statistics and Modeling for Biologists

MEES 604, Biometry

SURV 615, Statistical Methods I

MEES 608R, Applied Baysian Statistics

MEES 708M, Environmental Statistic II

3 This could be Physical Chemistry, Biochemistry, or some other grad level course in chemistry offered in such departments/programs as MEES (Modeling Chemical Equilibrium in Natural Waters), ENCE (Chemistry of Natural Waters) or GEOL (Principles of Biogeochemistry), etc.

Ph.D. PLAN OF STUDY

Environmental Science and Technology

Cano	didate:	Student Number:
Chec	ck Current Program:	
Che	Soil & Watershed Sciences	
	Ecological Technology Des	
	Wetland Science	31811
	Ecosystem Health and Natu	ural Pacauraa Managamant
TΛ	Admission Requirements: (Check if co	
		inpleted)
-	a. Calculus (1 semester)	Them Disabous Disabous Moth horses of Colombus
-	b. Basic science (20 credits) (C	Chem., Biochem., Physics, Biology, Math beyond Calculus)
-	c. Other provisions: (if any)	
II. N	M.S. Course Requirements (check if co	ompleted:
	A. Soil & Watershed Sciences Candid	
	a. Must have completed a	minimum of twelve credits of graduate level soil science courses. The 12
		of the following five areas: soil chemistry, soil physics, soil pedology,
	soil biology, soil fertility.	
F	B. Ecological Technology Design Ca	andidates
-	a. Six credits of graduate le	
		evel courses in ecological design or related engineering courses.
(C. Wetland Science Candidates	ever courses in ecological aesign of related engineering courses.
`		n a list of approved graduate level courses in Ecology, Soil Science and
		credits from each of these three groups.
Т	D. Ecosystem Health & Natural Resor	
1	——————————————————————————————————————	raduate level courses, including ENST604 (3 credits) and 9 additional
	credits in Ecosystem Health and N	
	credits in Ecosystem Hearth and Is	vaturar Resource Management.
III.	Ph.D. Course Requirements (List cour	rse number. Must be 400 level or higher):
A	A. Soil & Watershed Science Candida	
	a. one graduate level cours	se on chemistry or biochemistry
	b. one additional graduate	level course in chemistry, biochemistry, physics, mathematics,
	engineering, or computer	
E	B. Ecological Technology Design Car	
	a. one semester of graduate	
	b. one additional graduate	level course in ecology, ecological design or ecological
	engineering.	
(C. Wetland Science Candidates	
	a. one graduate level cours	se in modeling
		level courses from within the areas of Ecology, Soil
	Science, or Hydrology.	10 to 1 councies from William the through of Ecology, 2011
1	D. Ecosystem Health and Natural Re	sources Management Candidates
-		e level courses in Ecosystem Health and Natural Resource Management
	that have been approved by the ad	· · · · · · · · · · · · · · · · · · ·
Т	D. All candidates must complete these	
1	a. ENST602 (may be taken	
	b. ENST702 (may be taken	
	c. Seminar (798) 2 Cred	
	d. Research (899) 12 Cro	
	e. Two graduate level stati	
	I. A total of 50 credits in p	ost BS courses (excluding research)

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 Credit Year Semester | Course No. | Title Grade Courses to be completed during your doctoral program at UMD Semester | Course No. | Title Year Credit Grade Approved: _____ Advisor Member, Advisory Committee

IV. List by semester all course work completed and presently scheduled for the Ph.D. degree. The program

RESEARCH PROPOSAL COVER PAGE Environmental Science and Technology

Candidate:	Student Number:
Wetland S	tershed Sciences Technology Design
Title:	
YesNo YesNo YesNo YesNo YesNo YesNo YesNo YesNo YesNo	he project involves any of the following: Human subjects Animal subjects Radioactive materials Genetically engineered organisms Biological materials Select Agent Toxins Scientific diving Boats Used in Research Chemicals
	ses may require completion of University forms or training.) committee has reviewed the attached research proposal and feels it is appropriate program.
1. (Advisor)	4
2	5
3	6

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

Candidate:	Advisor:
I. Comprehensive Examination ⁴	Date
A. Committee Action [] Passed [] Failed	
Date of Second Examination (if needed) [] Passed [] Failed	
B. Examination Committee (signatures)	
·	, Committee Chair
	<u></u>
·	
	<u></u>

⁴ NOTE: A <u>written</u> exam followed by an <u>oral comprehensive examination</u> 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 six months before the date on which the degree will be conferred.



Statement of Mutual Expectations For Graduate Assistants and Supervisors

By providing professional experience and mentorship, graduate assistantships are an integral part of the education of graduate students. A Statement of Mutual Expectations (SME) outlines in writing the nature of an assistantship and its supervision. It is not a formal contract, but rather a structured conversation to ensure that a graduate student and their supervisor share a clear understanding of what to expect from each other. The Graduate School requires supervisors to meet with the student at the start of their assistantship and at least once a year going forward, and are encouraged to use this template to structure this meeting and to record the understanding. Given the wide variety of research, administrative, and teaching assistantships, this template is meant to be customized as needed.

Student Name	Assistantship Title
Student ID Number	Avg. hours/week
Supervisor Name	Start Date
Supervisor Title	End Date
Responsibilities of Assistant: Include the most important	duties of the essistantship Detential tonics include specific
responsibilities, goals, deliverables (if any) and how they are	
serving as the instructor of record or in a support role), inclu	
Responsibilities of Supervisor: Specify the responsibilities	of the supervisor. Potential topics include how the
graduate assistant will receive continuing guidance and support	ort, times when the supervisor will be available to meet,
any training schedule, and supplies to be made available.	
Scheduling: When the assistantship is to be performed, incl flexibility in work schedule, and personal and sick leave proc	

	Safety: If there are in-person meetings, what procedures are required to ensure the health and safet See https://umd.edu/4Maryland/health-plan for details.
Decodes	as and Post Prostices. Described training standard motheds required rescale bearing security and
	es and Best Practices: Required training, standard methods, required record-keeping, security proocedures for ordering supplies. For teaching assistantships, see Appendix A.
т, г	Out the Little of the Control of the
Professio	nal Development and Individual Development Plan: Topics include skills to be developed duri
appointment from the shttps://ac	nal Development and Individual Development Plan: Topics include skills to be developed durient, training resources other than those provided directly by the supervisor, whether publications we student's work and, if so, expectations for authorship, and/or expectations for travel. See sademiccatalog.umd.edu/graduate/policies/school-policies/#text for further guidance on co-authorship and collaborations.
appointment from the s	ent, training resources other than those provided directly by the supervisor, whether publications we student's work and, if so, expectations for authorship, and/or expectations for travel. See <u>rademiccatalog.umd.edu/graduate/policies/school-policies/#text</u> for further guidance on co-authorship.
appointment from the s	ent, training resources other than those provided directly by the supervisor, whether publications we student's work and, if so, expectations for authorship, and/or expectations for travel. See <u>rademiccatalog.umd.edu/graduate/policies/school-policies/#text</u> for further guidance on co-authorship.
appointment from the s	ent, training resources other than those provided directly by the supervisor, whether publications we student's work and, if so, expectations for authorship, and/or expectations for travel. See <u>rademiccatalog.umd.edu/graduate/policies/school-policies/#text</u> for further guidance on co-authorship.
appointment from the s	ent, training resources other than those provided directly by the supervisor, whether publications we student's work and, if so, expectations for authorship, and/or expectations for travel. See <u>rademiccatalog.umd.edu/graduate/policies/school-policies/#text</u> for further guidance on co-authorship.
appointme from the s https://ac faculty-stu	ent, training resources other than those provided directly by the supervisor, whether publications we student's work and, if so, expectations for authorship, and/or expectations for travel. See sademiccatalog.umd.edu/graduate/policies/school-policies/#text for further guidance on co-authordent interactions and collaborations.
appointment from the shttps://acfaculty-stu	ent, training resources other than those provided directly by the supervisor, whether publications we student's work and, if so, expectations for authorship, and/or expectations for travel. See rademiccatalog.umd.edu/graduate/policies/school-policies/#text for further guidance on co-authorident interactions and collaborations. tional Culture: Considerations such as office space, workspace, dress codes, appropriate titles and
appointment from the shttps://acfaculty-stu	ent, training resources other than those provided directly by the supervisor, whether publications we student's work and, if so, expectations for authorship, and/or expectations for travel. See sademiccatalog.umd.edu/graduate/policies/school-policies/#text for further guidance on co-authordent interactions and collaborations.
appointment from the shttps://acfaculty-stu	ent, training resources other than those provided directly by the supervisor, whether publications we student's work and, if so, expectations for authorship, and/or expectations for travel. See rademiccatalog.umd.edu/graduate/policies/school-policies/#text for further guidance on co-authorident interactions and collaborations. tional Culture: Considerations such as office space, workspace, dress codes, appropriate titles and
appointment from the shttps://acfaculty-stu	ent, training resources other than those provided directly by the supervisor, whether publications we student's work and, if so, expectations for authorship, and/or expectations for travel. See rademiccatalog.umd.edu/graduate/policies/school-policies/#text for further guidance on co-authorident interactions and collaborations. tional Culture: Considerations such as office space, workspace, dress codes, appropriate titles and
appointment from the shttps://acfaculty-stu	ent, training resources other than those provided directly by the supervisor, whether publications we student's work and, if so, expectations for authorship, and/or expectations for travel. See rademiccatalog.umd.edu/graduate/policies/school-policies/#text for further guidance on co-authorident interactions and collaborations. tional Culture: Considerations such as office space, workspace, dress codes, appropriate titles and
appointment from the shttps://acfaculty-stu	ent, training resources other than those provided directly by the supervisor, whether publications we student's work and, if so, expectations for authorship, and/or expectations for travel. See rademiccatalog.umd.edu/graduate/policies/school-policies/#text for further guidance on co-authorident interactions and collaborations. tional Culture: Considerations such as office space, workspace, dress codes, appropriate titles and
appointment from the shttps://ac faculty-stu	ent, training resources other than those provided directly by the supervisor, whether publications we student's work and, if so, expectations for authorship, and/or expectations for travel. See rademiccatalog.umd.edu/graduate/policies/school-policies/#text for further guidance on co-authorship and collaborations. tional Culture: Considerations such as office space, workspace, dress codes, appropriate titles and, and/or team norms.
appointment from the shttps://acfaculty-stu	ent, training resources other than those provided directly by the supervisor, whether publications we student's work and, if so, expectations for authorship, and/or expectations for travel. See rademiccatalog.umd.edu/graduate/policies/school-policies/#text for further guidance on co-authorship and collaborations. tional Culture: Considerations such as office space, workspace, dress codes, appropriate titles and, and/or team norms.
appointment from the shttps://ac faculty-stu	ent, training resources other than those provided directly by the supervisor, whether publications we student's work and, if so, expectations for authorship, and/or expectations for travel. See rademiccatalog.umd.edu/graduate/policies/school-policies/#text for further guidance on co-authorship and collaborations. tional Culture: Considerations such as office space, workspace, dress codes, appropriate titles and, and/or team norms.

Please note that all graduate assistantships are subject to University of Maryland policies and procedures as set forth in the Graduate Catalog: academiccatalog.umd.edu/graduate/policies/policies-graduate-assistantships. Nothing in the SME should contradict them, but if they do, the Graduate Catalog policies and procedures govern.

We have met in person or synchronously online to review and discuss this agreement on the date noted below. The graduate assistant was given an opportunity to ask and receive answers to any questions about the assistantship:

Student	Supervisor
Signature	Signature
Date	Date

If meeting online, you can save the document as a PDF and then add your digital signatures. For instructions visit helpx.adobe.com/reader/using/sign-pdfs.html

Appendix A

Graduate Teaching Assistantship Guidance

Some teaching assistants serve as the instructor of record, while most support a course by leading discussion or lab meetings, grading student work, and assisting with course logistics. This list provides additional topics for the teaching assistant and supervising faculty member to discuss.

- What are expectations about TA presence in class meetings?
- How can the TA and instructor work together to create and contribute to a positive and inclusive climate for the students?
- If the TA will be grading student work...
 - O What are the grading deadlines?
 - What standards (e.g., rubrics) and procedures will be used to ensure transparency, accuracy, and consistency?
- Student communication...
 - o How should the students contact the TA?
 - O What are expectations for TA response times to student emails, phone messages, etc.?
- University policies for undergraduate courses see go.umd.edu/ug-policy
 - o How will students be made aware of these policies?
 - o How will academic integrity be ensured?
 - O What conduct is prohibited and what conduct is allowed when using UMD computing resources?
 - o How will student information covered by the Federal Educational Rights & Privacy Act (FERPA) be protected?
 - O What are the expectations for student conduct?
 - O What are the policies related to sexual misconduct, discrimination, civility, and safety?
 - O How will we ensure that course materials meet standard accessibility standards?
 - o What is the process for identifying and offering academic accommodations for students?
 - O What constitutes an excused absence and how will they be accommodated?
 - O What other rights are guaranteed for students in the course?
- What are the expectations related to professional conduct?
- What resources might the TA refer students to? See <u>tltc.umd.edu/supporting-whole-student</u> for guidance.
- To whom should the TA report concerns about student conduct or wellbeing?
- How should the TA communicate with their supervisor if an illness or other unavoidable absence conflicts with their duties?
- What training or support is recommended or required? See tltc.umd.edu for upcoming workshops.