Ph.D. in Engineering with Emphasis in Resilient Infrastructure Systems (Entering with BS Degree)

Curriculum Checklist

Please refer to the program of study website below as your reference for course selection.
https://engineering.uga.edu/phd-engineering/resilient

Student Name: _____

Student ID (810/811): _____ First Term of Enrollment: _____

The Ph.D. in Engineering with Emphasis in Resilient Infrastructure Systems requires a minimum of 72 credit hours in the Program of Study beyond B.S. degree or a minimum of 42 credit hours beyond M.S. degree.

The University requires that students who are accepted to the Ph.D. program directly from a B.S. degree or who switch to a Ph.D. program before earning an M.S. degree must complete an additional 4 semester hours of University of Georgia courses open only to graduate students.

*** I already have MS Degree:**

- ☐ Yes: Please use the "Ph.D. in Engineering with Emphasis in Resilient Infrastructure Systems (Entering with MS Degree)" list.
- ☐ No

Subject/ Number		Hours	Title	Semester	Approved Elective (Y/N)	Graduate only course (Y/N)	Need Course Sub. (Y/N)
Required Courses	ENGR 8950	1	Graduate Seminar*				
	GRSC 7001	1	GradFIRST Seminar (UGA required)			Y	
Resilient Courses (9 credit hours)							
Additional 8000 and 9000 Electives (10 credit hours)							
Research Courses	ENGR 9000	49	Doctoral Research	List Semesters and Credit Hours:			
	ENGR 9010		Project-Focused Doctoral Research	List Semesters and Credit Hours:			
	ENGR 9300	3	Doctoral Dissertation	List Semesters and Credit Hours:			
Total Credit Hours			**Notes:** 1. A minimum of 16 semester hours of coursework, which must include: - **At least 15 hours of 8000- and 9000- level courses of which 9 hours must be selected from the Resilient Infrastructure Systems Course List (See the attached).**				

		- **1 hour of ENGR 8950**, Graduate Seminar (*Only up to 3 hours of ENGR 8950 may apply on the Program of Study) 2. **A minimum of 49 Doctoral Research hours** (ENGR 9000 Doctoral Research or ENGR 9010 Doctoral project-focused research for students with an M.S). 3. For direct admit students (entering without MS), **an addition of 4 credit hours of coursework and 26 credit hours of research courses** is required. 4. **3 hours of ENGR 9300** Doctoral Dissertation If you need course substitution, please complete and attach course substitution form. Course substitute form can be found at: https://engineering.uga.edu/students/graduate/ph-d-milestones-and-forms/

Comments:

Major Professor Signature: _____ Date: _____

Graduate Coordinator Signature: _____ Date: _____

UGA CENGR Ph.D. in Engineering with Emphasis in Environmental and Water Emphasis

ENVIRONMENTAL AND WATER EMPAHSIS COURSE LIST

- CRSS(GEOL) 8710 Watershed-Scale Modeling
- CVLE 8390 Earthquake Engineering
- CVLE/MCHE 8350 Nonlinear Finite Element Analysis (Sp – Every Other Year)
- CVLE/MCHE 8440 Advanced Strength of Materials (Sp- Every Other Year)
- CVLE 8550 Prestressed Concrete Design (F)
- CVLE 8410 Inelastic Behavior of Construction Materials
- CVLE 8420 Geomechanics (F)
- CVLE 8460 Soil Improvement (F)
- CVLE 8470 Advanced Pavement System Design
- CVLE 8140 Mixing & Transport (Sp)
- CVLE 8160 Jets & Plumes (Sp)
- ENGR 8103 Computational Engineering (Sp)
- CVLE(MCHE) 8160 Advanced Fluid Mechanics
- ENVE 8450 Design for Rapid Change: Food, Energy, and Water
- GEOL(WASR) 8740 Hydrologic Flow and Transport Modeling
- MARS 8030 Physical Oceanography (Sp)
- MARS 8100 Estuarine and Coastal Oceanography (F)
- MARS 8150 Ocean Waves (F)
- MARS 8510 Modeling Marine Sys (F)
- WASR 8200 Hillslope Hydrology