

**Ph.D. in Engineering with Emphasis in Resilient Infrastructure Systems (Entering with MS 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.**

**\* I already have MS Degree:**

- Yes: Institution and Year \_\_\_\_\_
- No: Please use the “Ph.D. in Engineering with Emphasis in Resilient Infrastructure Systems (Entering with BS Degree)” list.

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 (6 credit hours)							
Research Courses	ENGR 9000	23	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			<b>Notes:</b> <ol style="list-style-type: none"> <li>A minimum of 16 semester hours of coursework, which must include:                             <ul style="list-style-type: none"> <li>- <b>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).</b></li> <li>- <b>1 hour of ENGR 8950, Graduate Seminar (*Only up to 3 hours of ENGR 8950 may apply on the Program of Study)</b></li> </ul> </li> </ol>				

		<p>2. <b>A minimum of 23 Doctoral Research hours</b> (ENGR 9000 Doctoral Research or ENGR 9010 Doctoral project-focused research for students with an M.S).</p> <p>3. <b>3 hours of ENGR 9300</b> Doctoral Dissertation</p> <p>If you need course substitution, please complete and attach course substitution form. Course substitute form can be found at: <a href="https://engineering.uga.edu/students/graduate/ph-d-milestones-and-forms/">https://engineering.uga.edu/students/graduate/ph-d-milestones-and-forms/</a></p>
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**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