PhD in Civil and Environmental (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/degree/phd-civil-and-environmental-engineering/

Student Name: _____

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

The Ph.D. in Civil and Environmental Engineering requires a minimum of 72 credit hours, consisting of a minimum of 28 credit hours of coursework and a minimum of 44 credit hours of research and dissertation beyond B.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: If yes, please use the "PhD in Civil and Environmental (Entering with MS Degree)" checklist instead.
- ☐ No

Subject/ Number		Hours	Title	Semester	Approved Electives (Y/N)	Graduate only course (Y/N)	Course Sub. (Y/N)
Required Courses	ENGR 8130	3	Statistical Learning and Data Mining in Engineering			Y	
	ENGR 8910	3	Foundations for Engineering Research			Y	
	ENGR 8950	1	Graduate Seminar*			Y	
	GRSC 7001	1	GradFIRST Seminar (UGA required course)				
Approved Electives (9 credit hours)							
Elective (16 credit hours)							
Research Courses	ENGR 9000	41	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 **Students must complete:** 1. **7 credit hours of Required ENGR Core Courses** (ENGR 8310, ENG8910, ENGR 8950). 2. Minimum of 21 credit hours of electives, which must include: - **A minimum of 9 credit hours of 8000-level or above should be selected from the list of approved electives.** - **Additional 12 credit hours of electives.** - **ENGR 8950,** Graduate Seminar (*Only up to 3 hours of ENGR 8950 may apply) 3. Direct admitted PhD must complete an **additional 4 credit hours** of University of Georgia courses open only to graduate students. 4. **Minimum of 41 Doctoral Research hours** (ENGR 9000 Doctoral Research and/or ENGR 9010 Project-Focused Doctoral Research). 5. **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/

Comment:

Major Professor Signature: _____ Date: _____

Graduate Coordinator Signature: _____ Date: _____

UGA CENGR Ph.D. in Civil and Environmental Engineering

CIVIL AND ENVIRONMENTAL ENGINEERING EMPAHSIS COURSE LIST

- CRSS(GEOL) 8710 Watershed-Scale Modeling
- BCHE(ENVE) 6490 Environmental Engineering Remediation Design
- CVLE 6330 Advanced Structural Analysis
- CVLE 6340 Design of Bridges
- CVLE 6470 Pavement Design
- CVLE 8110 Environmental River Mechanics
- CVLE 8140 Transport and Mixing in Natural Flows
- CVLE 8410 Inelastic Behavior of Construction Materials
- CVLE 8420 Geomechanics
- CVLE 8460 Soil Improvement
- CVLE 8470 Advanced Pavement System Design
- CVLE 8510 Advanced Concrete Materials
- CVLE 8550 Design of Prestressed Concrete Structures
- CVLE(MCHE) 8160 Advanced Fluid Mechanics
- CVLE(MCHE) 8350 Nonlinear Finite Element Analysis
- ENGR 6350 Introduction to Finite Element Analysis
- ENGR 6490 Renewable Energy Engineering
- ENGR 8103 Computational Engineering: Fundamentals, Elliptic, and Parabolic Differential Equations
- ENGR 8990 Advanced Topics in Engineering
- ENGR(INFO) 8110 Informatics in Engineering and Environmental Sciences
- ENVE 6230 Energy in Nature, Civilization, and Engineering
- ENVE 6250 Energy Systems and the Environment
- ENVE 6410 Open Channel Hydraulics
- ENVE 6440 Computer Modeling in Water Resources
- ENVE 6450 Engineering Hydrology and Hydraulics
- ENVE 6460 Groundwater Hydrology for Engineers
- ENVE 6470 Environmental Engineering Unit Operations
- ENVE 6530 Energy and Environmental Policy Analysis
- ENVE 8450 Design for Rapid Change: Food, Energy, Water, and Climate
- MCHE 6400 Air Pollution Engineering
- MCHE 8380 Continuum Mechanics
- MCHE 8650 Aerosol Science and Engineering
- MCHE(CHEM) 8970 Combustion Science