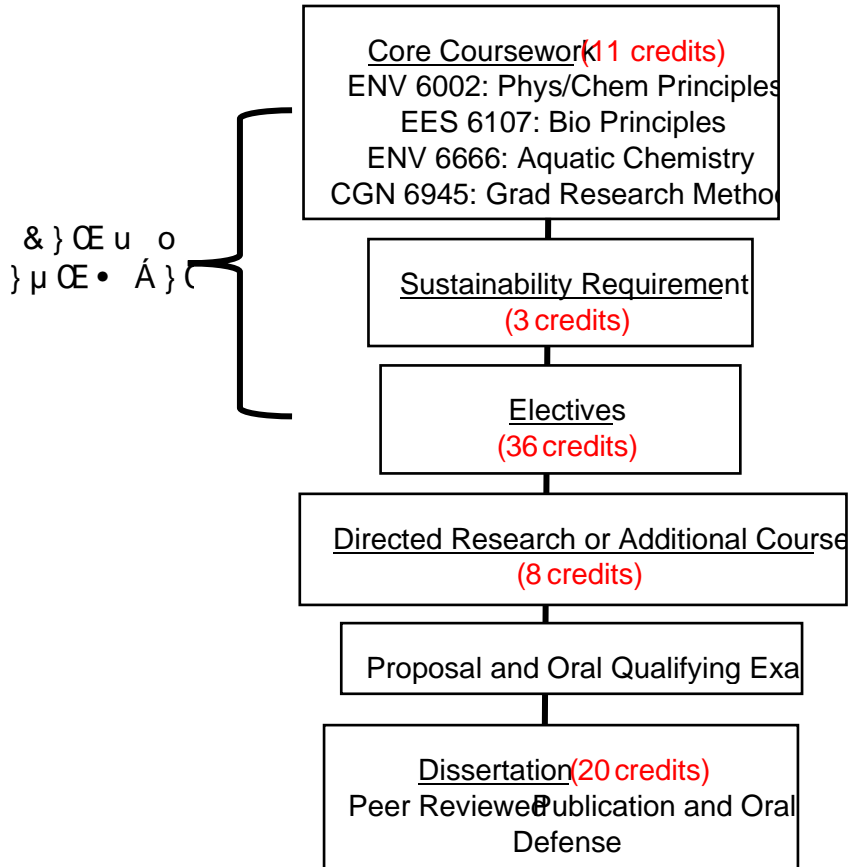PhD Environmental Engineering Course Registration Guide and Program of Study Form

In the CEE department at USF, graduate students are expected to know their program requirements and register themselves for classes using Oasis. The staff class search feature will help you to search for open classes (https://usfweb.usf.edu/DSS/StaffScheduleSearch). When using this tool, be sure to enter the correct Term, Department, Level (e.g., graduate/undergraduate), and Status (open). The following graphic shows the structure of the PhD program

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┌─────────────────────────────────────┐
│  Core Coursework (11 credits)        │
│  ENV 6002: Phys/Chem Principles      │
│  EES 6107: Bio Principles            │
│  ENV 6666: Aquatic Chemistry         │
│  CGN 6945: Grad Research Methods      │
└─────────────────────────────────────┘
            │
┌─────────────────────────────────────┐
│  Sustainability Requirement          │
│  (3 credits)                         │
└─────────────────────────────────────┘
            │
┌─────────────────────────────────────┐
│  Electives                           │
│  (36 credits)                        │
└─────────────────────────────────────┘
            │
┌─────────────────────────────────────┐
│  Directed Research or Additional     │
│  Courses (8 credits)                 │
└─────────────────────────────────────┘
            │
┌─────────────────────────────────────┐
│  Proposal and Oral Qualifying Exam   │
└─────────────────────────────────────┘
            │
┌─────────────────────────────────────┐
│  Dissertation (20 credits)           │
│  Peer Reviewed Publication and Oral  │
│  Defense                             │
└─────────────────────────────────────┘
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Total Credits Required:
    78 Credits - •šµ v š• Á]šZ }µš v ‰‰Œ}À u •š Œ[• PŒ
    48 credits - •šµ v š• Á]šZ v ‰‰Œ}À u •š Œ[• PŒ

These courses are required for every Environmental Engineering PhD student. Note that Phys/Chem Principles and Bio Principles are normally taught in the fall semester and Aquatic Chemistry is normally taught in the spring semester. Graduate Research Methods is normally taught in both the fall and spring semesters. Students should not sign up for Graduate Research Methods until they are writing their proposal and preparing for their qualifying exam.

    { ENV 6002 Physical & Chemical Principles in Environmental Engineering (3 credits)
    { EES 6107 Biological Principles in Environmental Engineering (3 credits)
    { ENV 6666 Aquatic Chemistry (3 credits)
    { CGN 6945 Graduate Research Methods (2 credits)

nability Course (3 credits) choose one from the following

ENV 6617 Green Engineering & Sustainability (3 credits)
ENV 6070 Resilient and Sustainable Infrastructure (3 credits)
ENV 6510 Sustainable Development Engineering (3 credits)
CGN 6933 ENVISION Sustainable Communities (3 credits)

es (36 credits) - Electives are grad level classes that you are free to select based on your interests reer goals. You may select additional courses in your concentration area, EE courses outside oncentration area or classes in another department.

Concentration Requirements (15 credit hours minimum)

Engineering for International Development
Students must engage in full time global training and service as part of the concentration (e.g., in the U.S. Peace Corps, with a nongovernmental organization, or equivalent). This work must be incorporated into the student's dissertation. Students may register for CST 6990 for 0 credit hours while in their country of service.

- { ENV 6510 Sustainable Development Engineering Credit Hours: 3

A minimum of 1 course from the following applied anthropology courses: (3 Credit Hours)

- { ANG 6766 Research Methods in Applied Anthropology
- { ANG 6730 Socio Cultural Aspects of HIV/AIDS
- { ANG 6469 Selected Topics in Medical Anthropology: Health, Illness and Culture

A minimum of one course from the following global public health courses (3 Credit Hours)

- { PHC 6764 Global Health Principles and Contemporary Issues
- { PHC 6761 Global Health Assessment Strategies

6 additional graduate level credit hours of coursework in international development engineering or closely related areas.

Recommended Electives Outside of CEE Department

Below is a list of recommended courses outside of the CEE Department that may be of interest. Course descriptions are available on the USF Graduate Catalog or USF Course Inventory.

- { EIN 5182 Principles of Engineering Management (3 credits)
- { GIS 5049 GIS for Non-Majors (3 credits)
- { GIS 6100 Geographic Info Systems (3 credits)
- { GIS 6355 Water Resources GIS (3 credits)
- { IDS 6233 Concepts of Sustainability (3 credits)
- { IDS 6234 Systems Thinking (3 credits)
- { IDS 6245 Sust. Water Res. Management: Doing More With Less (3 credits)
- { IDS 6246 Water Sensitive Urban Design (3 credits)
- { IDS 6247 Water Resources Planning (3 credits)
- { IDS 6276 Food/Energy/Water (FEW) Nexus (3 credits)
- { PHC 6050 Biostatistics (3 credits)
- { PHC 6761 Global Health Assessment Strat (3 credits)
- { STA 6205 Design of Experiments (3 credits)
- { ANG 6020 Environmental Justice (3 credits)
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PhDEVE Program of Study Form

Name:	
UID:	
Admission Term:	
Email:	
Address	
Phone	
Major Professor(s)	

MS Degree (if applicable)	University		Field of Study	Date

Course Title	Course Number	Credits	Semester Taken	Outside CEE?	Grade
Core Coursework (11 credits):					
Biological Principles in EVE	EES 6107	3			
Physical/Chemical Principles in EVI	ENV 6002	3			

8 additional credits of directed research, coursework, or dissertation:					