

## **ENVIRONMENTAL ENGINEERING TECHNICAL ELECTIVE COURSES**

The Environmental Engineering Degree allows for 8 hours of upper division technical elective credit. Additional technical elective hours may be needed to satisfy EGN 1006/1007 or hour differentials for transfer students. Technical Elective hours may be fulfilled using a combination of the following courses or other courses that have been approved by the Civil, Environmental, and Construction Engineering Department. Please be aware that some of these courses may have additional pre-requisites.

### Civil, Environmental, and Construction Engineering Department Courses:

CCE 4004	3	Construction Methods (PR: CES 4100C)
CCE 4034	3	Construction Estimating and Scheduling
CCE 4402	3	Construction Equipment and Productivity
CEG 4011C	4	Geotechnical Engineering I
CEG 4801C	3	Geotechnical Engineering Design (PR: CEG 4101C)
CES 4100C	4	Structural Analysis I
CES 4605	3	Steel Structures (PR: CES 4100C)
CES 4702	3	Reinforced Concrete Structures (PR: CES 4100C)
CGN 4300	3	Civil Engineering Systems
ENV 4112C	3	Air Pollution Measurements Laboratory
SUR 2101C	3	Surveying
TTE 4004	4	Transportation Engineering
TTE 4601C	3	Urban Systems Design (PR: TTE 4004)

### Other UCF Undergraduate Courses:

BCH 4053	3	Biochemistry I
BCH 4054	3	Biochemistry II
CHM 2205	5	Introduction to Organic and Biochemistry
CHM 2210	3	Organic Chemistry I
CHM 2211	3	Organic Chemistry II
CHM 3120C	5	Analytical Chemistry
CHM 3410	4	Physical Chemistry I
CHM 3411	3	Physical Chemistry II
CHM 4130C	4	Advanced Analytical Laboratory Technique
CHS 4200	3	Concepts in Industrial Chemistry
MCB 3020C	5	General Microbiology
MCB 4414	3	Microbial Metabolism
MCB 4603	3	Environmental Microbiology
PCB 4302C	4	Physiochemical Limnology
PCB 4303C	4	Biological Limnology
STA 4502	3	Nonparametric Statistical Methods

### Notes:

1. Engineering courses from other departments may also be acceptable as a technical elective. See your Advisor.
2. Upper level mathematics courses may also be acceptable as a technical elective. See your Advisor
3. Certain graduate (5000 level) courses may also be acceptable as a technical elective. Graduate courses if used to satisfy undergraduate requirements can not also count toward a graduate degree program.