Environmental EFA

Civil and Environmental Engineering Updated April 2017

Description

The *Environmental EFA* is designed for students who wish to gain more depth in environmental engineering topics. BS graduates with this EFA can find work in civil and environmental engineering positions involving more environmental engineering tasks. The EFA is also good preparation for students who wish to pursue graduate study (MS or PhD) in environmental engineering.

CEE Design Electives (6 sh	CEE	Design	Electives	(6 sh)
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CLL DC3	gn Licetives (0 3n)							
The Civil	Program requires two CEE Design Electives. For the CE Environmental EFA, the following CEE Design Elective is required:							
✓	CEE:4157 Environmental Engineering Design (3 sh)							
You mus	st choose a second CEE Design Elective from the following list:							
	CEE:3136 Design of Concrete Structures (3 sh) CEE:4374 Water Resources Design (3 sh) CEE:4535 Design of Steel Structure (3 sh) CEE:4762 Design of Transportation System (3 sh)							
Any cou	rse not chosen at a CEE Design Elective may be taken as an EFA Elective.							
EFA Elec	tives (21 sh)							
For the (CE Environmental EFA, the following EFA Electives are <u>required</u> :							
✓ ✓	CEE:4210 Foundations of Environmental Microbiology and Chemistry (3 sh) CEE:4310 Water Quality Engineering (w/Lab) (4 sh)							
You mus	ct choose at least 3 (and a maximum of 5) of the following courses:							
	CEE:4103 Water Quality CEE:4107 Sustainable Systems CEE:4119 Hydrology CEE:5155 Biological Treatment Processes CEE:4158 Solid and Hazardous Wastes CEE:4159 Air Pollution Control Technology CEE:5150 Environmental Chemistry CEE:5156 Physical-Chemical Process Fundamentals CEE:5254 Environmental Microbiology							
Any rem	aining EFA Electives (<u>a maximum of 2</u>) may be chosen from the following:							
	Any 3000 level or above course(s) in CEE CEE:3141 Design With the Developing World GEOG:1070 Contemporary Environmental Issues GEOG:1050 Foundations of GIS GEOG:3210 Health Work and Environment GHS:4210 International Health LAW:8992 Water Law							
	ECON:3625 Environmental and Natural Resources Economics Any other course(s) approved for EFA Elective credit. Other courses require written justification for relevance to the EFA. (Note							
	Any other coursels, approved for Livi Liective credit. Other courses require written justification for relevance to the EFA. (Note							

EFA Submission

To submit your EFA, fill out the attached PDF form and email it to Kim Lebeck (kimberly-lebeck@uiowa.edu) for approval by the CEE Curriculum Committee. Keep a copy to bring to Academic Advising with your CEE Advisor.

that many 2000 level or below courses will not be approved for EFA Elective Credit).

Civil & Environmental Engineering EFA Form

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Student Name/Date:			Student ID #:				
Expected Graduation Date:			Do you	Do you plan to take FE exam?			
Subtrack Desi	ignation:	Civil	Environmental				
Indicate your	chosen	Elective Focus	Area:				
		Civil and Env	rironmental Practice		Pre-Arch	itecture	
		Environmental Engineering			Urban and Regional Planning		
	Hydraulics & Water Resources			Management			
	Structures, Mechanics and Materials			Student Tailored			
		Transportati	on				
Session	Years	Course #	CEE Design Electiv	es	S.H.	Pre-Requisites	
	Choice of	Two Required	CEE Design Electives				
						<u> </u>	
Session	Years	Course #	EFA Electives		S.H.	Pre-Requisites	
			e Seven Required EFA Electives				
			Regional Planning, Managemen irses may be used to satisfy the G			FAs, list courses that are <u>required</u> but do nent (GEC) requirements.	
Session	Years	Course #	Additional Required C		S.H.	Pre-Requisites	
Enter any additional required courses for this EFA							

For the **Student Tailored EFA**, include a career statement to justify the elective focus area. Provide information on the requirements of the minor field or the certificate program when the EFA form is submitted.

Career Objective(s) Statement: