Civil Program: Environmental EFA

Civil and Environmental Engineering

Updated August 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)

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 must 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 course not chosen at a CEE Design Elective may be taken as an EFA Elective.

EFA Electives (21 sh)

For the CE Environmental EFA, the following EFA Electives are required:

- CEE:3430 Water Treatment (w/Lab) (4 sh)
- CEE:5150 Environmental Chemistry

You must choose at least 3 (and a maximum of 5) of the following courses:

- CEE:4102 Groundwater
- CEE:4107 Sustainable Systems
- CEE:4119 Hydrology
- CEE:4158 Solid and Hazardous Wastes
- CEE:4159 Air Pollution Control Technology

Any remaining EFA Electives (a maximum of 2) may be chosen from the following:

- Any 3000 level or above course(s) in CEE
- 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 that many 2000 level or below courses will not be approved for EFA Elective Credit).

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.