

Urban and Regional Planning EFA

Civil and Environmental Engineering Updated April 2017

Description

The *Urban and Regional Planning EFA* is designed for students who wish to acquire depth in urban and regional planning topics. BS graduates with this EFA can find work as a consulting engineer or city/county engineer in positions involving more engineering planning tasks. The EFA is also good preparation for students who wish to pursue graduate study (MS or PhD) in Urban and Regional Planning.

CEE Design Electives (6 sh)

The Civil Program requires two CEE Design Electives. For the *Urban and Regional Planning EFA*, you must choose two CEE Design Electives from the following list:

- CEE:3136 Design of Concrete Structures (3 sh) –or– CEE:4535 Design of Steel Structure (3 sh)
- CEE:4157 Environmental Engineering Design (3 sh)
- CEE:4374 Water Resources Design (3 sh)
- CEE:4762 Design of Transportation System (3 sh)

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

EFA Electives (21 sh)

The following courses are required for this EFA. They do not count as EFA Electives, but may be used to satisfy the General Education Component (GEC) requirements:

- ✓ URP:6202 Land Use Planning: Law and Practice (4 sh)
- ✓ URP:6203 History and Theories of Planning (3 sh)

The following two EFA Electives are required for this EFA:

- ✓ URP:6201 Analytical Methods in Planning 2 (3 sh)
- ✓ URP:6205 Economics for Policy Analysis (3 sh)

For the *Urban and Regional Planning EFA*, you must choose three of the following courses at EFA Electives:

- URP:4262 Transportation Demand Analysis (3 sh)
- URP:4195 Public Transit Operations and Planning (3 sh)
- URP:6231 Poverty, Planning and Public Policy (3 sh)
- URP:6233 Financing Local Government (3 sh)
- URP:6256 Environmental Policy (3 sh)
- URP:6266 Transportation and Land Use Planning (3 sh)
- URP:6271 Housing Policy (3 sh)

For the *Urban and Regional Planning EFA*, you must choose two 3000 level or above CEE courses as EFA Electives. A complete list is available on the CEE website. Recommended courses for this EFA (because of their relevance and regular course offerings) are:

- Any of the five design courses not taken as a CEE Design Elective (3 sh)
- CEE:3783 Surveying & Remote Sensing (3 sh)
- CEE:4102 Groundwater (3 sh)
- CEE:4158 Solid and Hazardous Wastes (3 sh)
- CEE:4210 Foundations of Environmental Microbiology and Chemistry (3 sh)
- CEE:4119 Hydrology (3 sh)
- CEE:4371 Water Resources Engineering (3 sh)
- CEE:4371 Finite Element I (3 sh)
- CEE:3790 Resilient Infrastructure and Emergency Response (3 sh)
- CEE:4160 Introduction to Bridge Engineering (3 sh) [Spring/Even Years]
- CEE:4763 Traffic Engineering (3 sh)

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.

Civil & Environmental Engineering EFA Form

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Student Name/Date: _____ Student ID #: _____

Expected Graduation Date: _____ Do you plan to take FE exam? _____

Subtrack Designation: _____ Civil _____ Environmental

Indicate your chosen Elective Focus Area:

- | | |
|-------------------------------------|-----------------------------|
| Civil and Environmental Practice | Pre-Architecture |
| Environmental Engineering | Urban and Regional Planning |
| Hydraulics & Water Resources | Management |
| Structures, Mechanics and Materials | Student Tailored |
| Transportation | |

Session	Years	Course #	CEE Design Electives	S.H.	Pre-Requisites
<i>Enter your Choice of Two Required CEE Design Electives</i>					

Session	Years	Course #	EFA Electives	S.H.	Pre-Requisites
<i>Enter your Choice of Courses for the Seven Required EFA Electives</i>					

For the **Pre-Architecture, Urban and Regional Planning, Management, and Student Tailored EFAs**, list courses that are required but do not count as EFA Electives. These courses may be used to satisfy the General Education Component (GEC) requirements.

Session	Years	Course #	Additional Required Courses	S.H.	Pre-Requisites
<i>Enter any additional required courses for this EFA</i>					

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: