

# Pre-Architecture EFA

## Civil and Environmental Engineering Updated April 2017

### Description

The *Pre-Architecture EFA* is designed to provide broad exposure to architectural history, studio art, and structural engineering; it also satisfies the requirements for an Art minor. Students interested in pursuing an advanced degree in architecture should examine the degree requirements of the architecture program they wish to enter for more specific advice.

### CEE Design Electives (6 sh)

The Civil Program requires two CEE Design Electives. For the *Pre-Architecture EFA*, the following CEE Design Elective is required:

- ✓ CEE:3136 Design of Concrete Structures (3 sh)

You must choose a second CEE Design Elective from the following list:

- 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:

- ✓ ARTS:1510 Basic Drawing
- ✓ ARTS:1520 Design Fundamentals

You must choose one of the following Studio Art 2D course as an EFA Elective:

- ANIM:2125 Introduction to Animation (3 sh)
- DSGN:2110 Graphic Design I (3 sh)
- DRAW:2310 Life Drawing I (3 sh)
- PNTG:2410 Painting I (3 sh)
- PHTO:2510 Beginning Digital Photography (3 sh)
- PRNT:2610 Introduction to Printmaking (3 sh)

The following Studio Art 3D course is required as an EFA Elective:

- ✓ TDSN:2210 Problems in 3-D Design I: Form and Structure (3 sh)

You must choose one additional upper level Arts course (in the disciplines in which they completed the introductory course). A recommended course for this EFA (because of its relevance and regular course offering) is:

- TDSN:2240 3D Computer Aided Design (3 sh)

You must choose at least 2 (and at most 4) courses from the following list:

- TDSN:2250 Computer Modeling with 3ds Max (3 sh)
- CEE:4164 Design of Wood Structures (3 sh)
- CEE:4535 Design of Steel Structures (3 sh)
- CEE:4539 Foundations of Structures (3 sh)

Any remaining EFA Elective must be a 3000 level or above CEE courses. 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
- 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: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](mailto: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

## Civil and Environmental Engineering Updated April 2017

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: