

## Civil Engineering Program Pre-Architecture EFA

### Civil and Environmental Engineering Updated April 2020

#### 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:4506 Design of Concrete Structures

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

- CEE:4157 Environmental Engineering Design
- CEE:4374 Water Resources Design
- CEE:4762 Design of Transportation Systems

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
- DSGN:2110 Graphic Design I
- DRAW:2310 Life Drawing I
- PNTG:2410 Painting I
- PHTO:2510 Beginning Digital Photography
- PRNT:2610 Introduction to Printmaking

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

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

You must choose two additional Arts courses to satisfy the Arts minor requirements (see [Minor in Studio Arts](#) page on the School of Art and Art History web site). Recommended courses that count as EFA Electives are:

- TDSN:2240 3D Computer Aided Design
- TDSN:2250 Computer Modeling with 3ds Max

Any other Arts courses taken to satisfy this requirement must be approved by the CEE Curriculum Committee to count as an EFA Elective. A course not approved as an EFA Elective may be used to satisfy the General Education Component (GEC) requirements.

You must choose at least 2 courses from the following list:

- CEE:4164 Design of Wood Structures
- CEE:4535 Design of Steel Structures
- CEE:4539 Foundations of Structures

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
- CEE:4102 Groundwater
- CEE:4158 Solid and Hazardous Wastes

- CEE:4159 Air Pollution Control Technology
- CEE:4119 Hydrology
- CEE:4371 Water Resources Engineering
- CEE:3790 Resilient Infrastructure and Emergency Response
- CEE:4763 Traffic Engineering

**EFA Submission**

Fill out the attached PDF form electronically, and submit for approval by the CEE Curriculum Committee to:

<https://workflow.uiowa.edu/form/cee-and-environmental-efa-submission>

Keep a copy to bring to Academic Advising with your CEE Advisor.

# Civil Engineering Program EFA Form

*Updated May 2018*

Student Name/Date: \_\_\_\_\_

Student ID #: \_\_\_\_\_

Expected Graduation Date: \_\_\_\_\_

Do you plan to take FE exam? \_\_\_\_\_

**Indicate your chosen Elective Focus Area:**

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

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

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

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

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 certificate program when the EFA form is submitted.

Career Objective(s) Statement: