**PURDUE UNIVERSITY**

**REQUEST FOR ADDITION, EXPIRATION, OR REVISION OF AN UNDERGRADUATE COURSE (10000-40000 LEVEL)**

**DEPARTMENT** Civil Engineering  
**EFFECTIVE SESSION** Summer 2014  
**PROPOSED:**
- Subject Abbreviation: CE
- Course Number: 35000
- Long Title: Introduction to Environmental and Ecological Engineering
- Short Title: Intro Env & Ecol Eng

**EXISTING:**
- Subject Abbreviation: CE
- Course Number: 36000

**TERMS OFFERED**
- Summer
- Fall

**CAMPUS(ES) INVOLVED**
- N. Central
- Tech Indianapolis
- W. Lafayette
- Ft. Wayne
- Ind.opolis

**CREDIT TYPE**

<table>
<thead>
<tr>
<th>Credit Type</th>
<th>Minimum Cr. Hrs (Check One)</th>
<th>Maximum Cr. Hrs</th>
<th>Equivalent Credit</th>
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<td>To</td>
<td>Or</td>
<td>Yes</td>
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</tbody>
</table>

**COURSE ATTRIBUTES**

- Satisfactory/Unsatisfactory Only
- 7 Variable Title
- Full Time Privilege
- 10 Off-Campus Experience

**SCHEDULE TYPE**

- Lecture
- Recitation
- Presentation
- Laboratory
- Lab Prep
- Studio
- Distance
- Clinic
- Experimental
- Research
- Ind. Study
- Pract/Observer

**COURSE DESCRIPTION (INCLUDE REQUIREMENTS/RESTRICTIONS)**

REPLACE the prerequisites with the following:

- MA 18200 or MA 18600 or MA 17300 or MA 22200 or MA 22400; and CHM 11200 or CHM 11800 or CHM 13600; and PHYS 17200 or PHYS 22000

Minimum Grade of D-

**COURSE LEARNING OUTCOMES**

- [ ]

**OFFICE OF THE REGISTRAR**

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OFFICE OF THE REGISTRAR

**SIGNATURES**

- Column Department Head: [Signature]
- Column School Dean: [Signature]
- Faculty Senate Chair: [Signature]
- Vice Chancellor for Academic Affairs: [Signature]
- West Lafayette Department Head: [Signature]

**DATES**

- [Date]
- [Date]
- [Date]
- [Date]
- [Date]
- [Date]
**Course Proposal**

**Department**: Environmental and Ecological Engineering  
**Effective Session**: Summer 2014

**Course Information**
- **Subject Abbreviation**: EEE  
- **Course Number**: 35000
- **Title**: Introduction to Environmental and Ecological Engineering
- **Short Title**: Intro Env & Ecol Eng

**Credit Type**
1. **Fixed Credit**: Credit Hrs.
2. **Variable Credit Range**: Minimum Cr. Hrs.  
   - **Check One**
   - **Maximum Cr. Hrs.**
3. **Equivalent Credit**: Yes  
   - **No**

**COURSE ATTRIBUTES**
- **Pass/Not Pass Only**
- **Satisfactory/Unsatisfactory Only**
- **Repeatability**
- **Maximum Repeatability Credit**
- **Credit by Examination**
- **Fee**  
   - **Coop**  
   - **Lab**
- **Rate Request**
- **Off-Campus Experience**

**Schedule Type**
- **Lecture**
- **Recitation**
- **Presentation**
- **Laboratory**
- **Lab Prep**
- **Studio**
- **Distance**
- **Clinic**
- **Experiential**
- **Research**
- **Ind. Study**
- **Prac/Observ**

**COURSE DESCRIPTION**
REPLACE the prerequisites with the following:
- MA 16200 or MA 16600 or MA 17300 or MA 22200 or MA 22400; and CHM 11200 or CHM 11600 or CHM 13600; and PHYS 17200 or PHYS 22000.

**COURSE LEARNING OUTCOMES**

**Signatures**
- Office of the Registrar

**Date**: February 14, 2014

**Officer**: Officer of the Registrar

**Approval Dates**
- **Calumet Department Head**
- **Calumet School Dean**
- **Fort Wayne Department Head**
- **Fort Wayne School Dean**
- **Indianapolis Department Head**
- **Indianapolis School Dean**
- **North Central Faculty Senate Chair**
- **Vice Chancellor for Academic Affairs**
- **West Lafayette Department Head**
- **West Lafayette School Dean**

**Office of the Registrar**

**Date**: 2/1/14
TO: The Faculty of the College of Engineering

FROM: The School of Civil Engineering and the Division of Environmental & Ecological Engineering

SUBJECT: Changes in Undergraduate Level Course CE 35000 Prerequisites and Course Title

The Faculties of the School of Civil Engineering and the Division of Environmental & Ecological Engineering have approved the changes in description of the course listed below. This action is now submitted to the Engineering Faculty with recommendation for approval.

FROM: CE/EEE 35000: Environmental Engineering

Sem. 1, 2. Class 3, cr. 3. Prerequisite: CHM 116 or equivalent.

Introduction to water pollution, air pollution, noise, hazardous and solid wastes, and their control. Environmental impact statements and global pollution issues. Field trips required.

TO: CE/EEE 35000: Introduction to Environmental & Ecological Engineering

Sem. 1, 2. Class 3, cr.3. Prerequisites: MA 16200 or MA 16600 or MA17300 or MA 22200 or MA 22400; and CHM 11200 or CHM 11600 or CHM 13600; and PHYS 17200 or PHYS 22000.

Introduction to principles of Environmental & Ecological Engineering. Class addresses relationships between engineering activities and the environment. Principles of sustainability, environmental chemistry, physical processes, and environmental microbiology applied to environmental and ecological issues are presented. Lecture topics include processes to control the release of contaminants to the environment; conservation and recovery of resources; water, air, and soil pollution; green engineering; and LEED. Field trips required.

REASON: The course title and course description has been changed to more accurately reflect the content of the revised class, which addresses proactive and reactive engineering activities related to the environment. The new list of prerequisites more accurately reflects academic requirements for this class.

Rao S. Govindaraju  
Bowen Engineering Head and Professor  
School of Civil Engineering

John W. Sutherland  
Professor and Fehsenfeld Family Head  
Environmental & Ecological Engineering

Date 1/28/14

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