PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION,
OR REVISION OF A COURSE

DEPARTMENT Civil Engineering EFFECTIVE SESSION Spring 2007

INSTRUCTIONS: Please check the items below which describe the purpose of this request.

1. New course with supporting documents
2. Add existing course
3. Expiration of a course
4. Change in course number
5. Change in course title
6. Change in course credit/units
7. Change in course attributes
8. Change in instructional hours
9. Change in course description
10. Change in course requisites
11. Change in semesters offered
12. Transfer from one department to another

PROPOSED:

<table>
<thead>
<tr>
<th>Subject Abbreviation</th>
<th>Subject Abbreviation</th>
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<tbody>
<tr>
<td>CE</td>
<td>CE</td>
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Course Number 584

Long Title Foundation Analysis and Design

Short Title Foundation Anly & Des

TERMS OFFERED:

Check All That Apply:

<table>
<thead>
<tr>
<th>Summer</th>
<th>Spring</th>
<th>Fall</th>
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<tbody>
<tr>
<td>☐</td>
<td>☐</td>
<td>X</td>
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</table>

CAMPUS(ES) INVOLVED

Calumet
Indiana/apolis
West Lafayette
Tech Statewide

Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY)

CREDIT TYPE

<table>
<thead>
<tr>
<th>Fixed Credit: Cr. Hrs.</th>
<th>Variable Credit Range:</th>
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<tbody>
<tr>
<td>3</td>
<td>(Minimum Cr. Hrs)</td>
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</table>

<table>
<thead>
<tr>
<th>Equivalent Credit: Yes</th>
<th>No</th>
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<tbody>
<tr>
<td>(Check One) To</td>
<td></td>
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<tr>
<td>Maximum Cr. Hrs</td>
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<table>
<thead>
<tr>
<th>Instruction Type</th>
<th>Minutes Per Mtg</th>
<th>Meetings Per Week</th>
<th>Weeks Offered</th>
<th>% of Credit Allocated</th>
<th>Delivery Method</th>
<th>Delivery Medium (Audio, Internet, Live, Text-Based, Video)</th>
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<tbody>
<tr>
<td>Lecture</td>
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<td>3</td>
<td>16</td>
<td>100</td>
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COURSE ATTRIBUTES: Check all that apply

1. Pass/Not Pass Only
2. Satisfactory/Unsatisfactory Only
3. Repeatable
4. Maximum repeatable credit
5. Credit by Examination
6. Designator Required
7. No Specialty Fee
8. Special Fees

Registration Approval Type

Department Instructor

Sem., Class, Cr.: Prerequisite: CE 483. Authorized equivalent courses or consent of instructor may be used in satisfying course prerequisites.

Design of shallow foundations (isolation, combined, and strip footings), with specific attention to issues of mutual concern and interest to geotechnical and structural engineers. Review of factors that serve as the basis for selection of foundation type. Interpretation of subsurface exploration results. Settlement analyses and limit bearing capacity analyses. Communications and Interaction between geotechnical and structural engineers. Structure and contents of a geotechnical report. Detailed treatment of geotechnical/structural design criteria and methodologies for various types of shallow and deep foundations.

Calumet Undergrad Curriculum Committee Date

Fort Wayne Department Head Date

Indianapolis Department Head Date

North Central Department Head Date

West Lafayette Department Head Date

West Lafayette College/School Dean Date

Calumet Department Head Date

Fort Wayne School Dean Date

Indianapolis School Dean Date

North Central Chancellor Date

Graduate Dean Date

Calumet School Dean Date

Fort Wayne Chancellor Date

Undergrad Curriculum Committee Date

Date Approved by Graduate Council Date

West Lafayette Registrar Date

OFFICE OF THE REGISTRAR
TO: The Faculty of the College of Engineering
FROM: The Faculty of the School of Civil Engineering
RE: Changes in CE 584 Course Description and Semester Offering

From: CE 584 – Foundation Analysis and Design
Sem. 2, Class 3, Cr. 3

Prerequisite: CE 483. Authorized equivalent courses or consent of instructor may be used in satisfying course prerequisites.

Selected topics in soil response and technology needed in conventional geotechnical analysis and design; shearing behavior in sands; stresses induced by boundary loadings; settlement and time rate of settlement; bearing capacity and design of footings; piles, pile groups, caissons; and soil dynamics.

To: CE 584 – Foundation Analysis and Design
Sem. 1, Class 3, Cr. 3.

Prerequisite: CE 483. Authorized equivalent courses or consent of instructor may be used in satisfying course prerequisites.

Design of shallow foundations (isolated, combined, and strip footings), with specific attention to issues of mutual concern and interest to geotechnical and structural engineers. Review of factors that serve as the basis for selection of foundation type. Interpretation of subsurface exploration results. Settlement analyses and limit bearing capacity analyses. Communications and interaction between geotechnical and structural engineers. Structure and contents of a geotechnical report. Detailed treatment of geotechnical/structural design criteria and methodologies for various types of shallow and deep foundations.

Reason: To provide an updated course description and offering schedule.

APPROVED FOR THE FACULTY OF THE SCHOOLS OF ENGINEERING
BY THE COMMITTEE ON FACULTY RELATIONS

CFR Minutes 5
Date 9/29/06
Signature