### Request for Addition, Expiration, or Revision of a Course

**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/type
- 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:**

**Subject Abbreviation**: CE  
**Course Number**: 479

**PROPOSED**: Design of Building Components and Systems  
**Short Title**: Design Bldg Comp & Sys

**CREDIT TYPE**

1. Fixed Credit: Cr. Hrs. 3  
2. Variable Credit:  
   - Minimum Cr. Hrs: (Check One)  
   - Maximum Cr. Hrs:  
3. Equivalent Credit: Yes  
4. Thesis Credit: Yes

**COURSE ATTRIBUTES**: Check all That Apply

- 1. Pass/Not Pass Only
- 2. Satisfactory/Unsatisfactory Only
- 3. Repeatable
- 4. Credit by Examination
- 5. Designator Required
- 6. Special Fees

**TERMS OFFERED**: Check All That Apply

- Summer
- Spring
- Fall

**CAMPUS(ES) INVOLVED**

- Calumet
- Indianapolis
- W. Lafayette
- Tech Statewide

**ABBREVIATED TITLE**: Design of Building Components and Systems

**ABBREVIATED TITLE**: Design Bldg Comp & Sys

**Presentation**

**Laboratory**

**Lab Prep**

**Studio**

**Distance**

**Clinic**

**Experiential**

**Research**

**Ind. Study**

**Pract/Observ**

**COURSE DESCRIPTION (INCLUDE REQUISITES):**

Prerequisite or corequisite: CE 473. Authorized equivalent courses or consent of instructor may be used in satisfying course prerequisites.

Design of simple floor and roof systems and load bearing walls; uses of building materials; fundamentals of design of metal form decking, steel joists, masonry (beams, columns and load bearing walls), and timber (beams, trusses, and mechanical connections).

**Cross-Listed Courses**

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**OFFICE OF THE REGISTRAR**

**Print Form**

**Office of the Registrar**

**FORM 40 REV. 7/05**

**Date**: 3/4/06

**Print Form**
TO: The Faculty of the College of Engineering
FROM: The Faculty of the School of Civil Engineering
RE: Changes in CE 479 Course Title and Description

From: CE 479 – Architectural Engineering

Sem. 2, Class 2, Lab. 3, Cr. 3

Prerequisite or corequisite: CE 473. Authorized equivalent courses or consent of instructor may be used in satisfying course prerequisites.

Design of simple floor and roof systems; use of building materials; timber design, including trusses, plywood, and laminated members.

To: CE 479 – Design of Building Components and Systems

Sem. 1 or 2, Class 3, Cr. 3.

Prerequisite or corequisite: CE 473. Authorized equivalent courses or consent of instructor may be used in satisfying course prerequisites.

Design of simple floor and roof systems and load bearing walls; uses of building materials; fundamentals of design of metal form decking, steel joists, masonry (beams, columns and load bearing walls), and timber (beams, trusses, and mechanical connections).

Reason: To provide an updated course title, description, and offering schedule. The laboratory session has been replaced with one hour lecture. This format allows for additional lecture time needed due to new material introduced in the course as the Load Resistance Factor Design approach has been developed for Masonry.

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

CFR Minutes 9/22/06
Date
Chairman CFR
<table>
<thead>
<tr>
<th>Main Topic</th>
<th>Subtopic</th>
<th>Exams</th>
<th>Weeks</th>
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<tbody>
<tr>
<td>Design of steel floor and roof decks</td>
<td>Roof Decks</td>
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<td>1</td>
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<tr>
<td></td>
<td>Non-Composite Floor Decks</td>
<td></td>
<td>2-3</td>
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<tr>
<td></td>
<td>Composite Floor Decks</td>
<td></td>
<td>3-4</td>
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<tr>
<td>Design of Steel Joists</td>
<td>K, L, DL and SL Series</td>
<td>Includes 1 exam session at the end of this topic</td>
<td>5-7</td>
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<tr>
<td>Masonry Design</td>
<td>Introduction and Material Properties</td>
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<td>7</td>
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<td></td>
<td>Unreinforced Masonry</td>
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<td>8-9</td>
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<td>Reinforced Masonry</td>
<td>Includes 1 exam session at the end of this topic</td>
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<tr>
<td>Wood Design</td>
<td>Introduction and Material Properties</td>
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<td>11-12</td>
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<td></td>
<td>Axially Loaded Members</td>
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<td>12-13</td>
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<td></td>
<td>Beams and Connections</td>
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<td>13-15</td>
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<tr>
<td>Total Number of Weeks</td>
<td>Final Exam</td>
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<td>16</td>
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