

REQUEST FOR ADDITION, EXPIRATION,  
OR REVISION OF A COURSE

SP 2007 EFD 26-05  
Fall 2006

DEPARTMENT Civil Engineering

EFFECTIVE SESSION Fall 2006

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

- |                          |   |                                     |   |
|--------------------------|---|-------------------------------------|---|
| <input type="checkbox"/> | 1. New course with supporting documents | <input type="checkbox"/>            | 7. Change in course attributes              |
| <input type="checkbox"/> | 2. Add existing course                  | <input type="checkbox"/>            | 8. Change in instructional hours            |
| <input type="checkbox"/> | 3. Expiration of a course               | <input checked="" type="checkbox"/> | 9. Change in course description             |
| <input type="checkbox"/> | 4. Change in course number              | <input type="checkbox"/>            | 10. Change in course requisites             |
| <input type="checkbox"/> | 5. Change in course title               | <input checked="" type="checkbox"/> | 11. Change in semesters offered             |
| <input type="checkbox"/> | 6. Change in course credit/type         | <input type="checkbox"/>            | 12. Transfer from one department to another |

PROPOSED:

EXISTING:

TERMS OFFERED

Check All That Apply:

Subject Abbreviation CE Subject Abbreviation CE

Summer  Spring  Fall

Course Number 671 Course Number 671

CAMPUS(ES) INVOLVED  
 Calumet  Ft. Wayne   
 Indianapolis  N. Central   
 W.Lafayette  Cont Ed   
 Tech Statewide

Long Title Behavior of Metal Structures

Short Title Behavior Metal Struct

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

CREDIT TYPE

1. Fixed Credit: Cr. Hrs. 3  
 2. Variable Credit Range:  
 Minimum Cr. Hrs             
 (Check One) To  Or   
 Maximum Cr. Hrs             
 3. Equivalent Credit: Yes  No   
 4. Thesis Credit: Yes  No

COURSE ATTRIBUTES: Check all That Apply

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

7. Registration Approval Type

- Department  Instructor   
 8. Variable Title   
 9. Remedial   
 10. Honors   
 11. Full Time Privilege   
 12. Off Campus Experience

Instructional Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated	Delivery Method (Asyn. Or Syn)	Delivery Medium(Audio,Internet, Live,Text-Based, Video)
Lecture	50	3	16	100	Syn	Live
recitation						
Presentation						
Laboratory						
Lab Prep						
Studio						
Distance						
Clinic						
Experiential						
Research						
Ind. Study						
Pract/Observ						

Cross-Listed Courses  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

COURSE DESCRIPTION (INCLUDE REQUISITES):

Study of the behavior of metal structural components and metal structural systems. The performance of civil engineering type metal structures in various loading environments is examined, and correlations between behavioral characteristics and various design specification requirements are reviewed. Primary emphasis is placed on the behavior of steel structures, although other metal systems also are discussed. Specific topics include material behavior, manufacturing processes, fatigue and fracture, bolting and welding procedures, and repair and retrofit techniques. Course material is augmented with a number of case studies.

Calumet Undergrad Curriculum Committee	Date	Calumet Department Head	Date	Calumet School Dean	Date
Fort Wayne Department Head	Date	Fort Wayne School Dean	Date	Fort Wayne Chancellor	Date
Indianapolis Department Head	Date	Indianapolis School Dean	Date	Undergrad Curriculum Committee	Date
North Central Department Head	Date	North Central Chancellor	Date	Date Approved by Graduate Council	Date
West Lafayette Department Head	Date	West Lafayette College/School Dean	Date	Graduate Council Secretary	Date
Graduate Council Area Committee Chair	Date	Graduate Dean	Date	West Lafayette Registrar	Date

11/2/07  
 [Signature]



**TO:** The Faculty of the College of Engineering  
**FROM:** The Faculty of the School of Civil Engineering  
**RE:** Changes in CE 671 Course Description and Schedule

**From:** **CE 671 – Behavior of Metal Structures**

Sem. 1, Class 3, Cr. 3.

Prerequisite: CE 591. Authorized equivalent courses or consent of instructor may be used in satisfying course prerequisites.

Study of the behavior of metal structural components and metal structural systems. The performance of civil engineering type metal structures in various loading environments is examined, and correlations between behavioral characteristics and various design specification requirements are reviewed. Primary emphasis is placed on the behavior of steel structures, although other metal systems also are discussed. Course material is augmented with a number of case studies. Professor Bowman.

**To:** **CE 671 – Behavior of Metal Structures**

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

Prerequisite: CE 591. Authorized equivalent courses or consent of instructor may be used in satisfying course prerequisites.

Study of the behavior of metal structural components and metal structural systems. The performance of civil engineering type metal structures in various loading environments is examined, and correlations between behavioral characteristics and various design specification requirements are reviewed. Primary emphasis is placed on the behavior of steel structures, although other metal systems also are discussed. Specific topics include material behavior, manufacturing processes, fatigue and fracture, bolting and welding procedures, and repair and retrofit techniques. Course material is augmented with a number of case studies.

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

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

CFR Minutes 1017

Date 4/7/06

Chairman CFR Robert E. Montgomery



## **CE 671 – Behavior of Metal Structures**

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

Prerequisite: CE 591. Authorized equivalent courses or consent of instructor may be used in satisfying course prerequisites.

Study of the behavior of metal structural components and metal structural systems. The performance of civil engineering type metal structures in various loading environments is examined, and correlations between behavioral characteristics and various design specification requirements are reviewed. Primary emphasis is placed on the behavior of steel structures, although other metal systems also are discussed. Course material is augmented with a number of case studies.

