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

DEPARTMENT: Civil Engineering
EFFECTIVE SESSION: Fall 2006

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:

<table>
<thead>
<tr>
<th>Subject Abbreviation</th>
<th>Course Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE</td>
<td>371</td>
</tr>
</tbody>
</table>

| Long Title | Structural Analysis I |
| Short Title | Struct Analysis |

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
   Maximum Cr. Hrs
   Yes
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
7. Registration Approval Type
   Department
   Instructor
8. Variable Title
9. Remedial
10. Honors
11. Full Time Privilege
12. Off Campus Experience

TERMS OFFERED

<table>
<thead>
<tr>
<th>Summer</th>
<th>Spring</th>
<th>Fall</th>
</tr>
</thead>
</table>

CAMPUS(ES) INVOLVED

<table>
<thead>
<tr>
<th>Calumet</th>
<th>Ft. Wayne</th>
<th>N. Central</th>
<th>W.Lafayette</th>
<th>Cont Ed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tech Statewide</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Cross-Listed Courses

COURSE DESCRIPTION (INCLUDE REQUISITES):

Sem 1 and 2, Class 3, Cr 3
Prerequisite: CE 270. Authorized equivalent courses or consent of instructor may be used in satisfying course prerequisites.
Stress resultants (reactions, axial forces, shear forces, and bending moments) for beams and framed structures. Deflections of beams and frames by geometric methods (moment-area theorems and applications; conjugate beam analogy). Analysis of statically indeterminate beams and frames by classical stiffness methods: slope deflection and moment distribution. Influence functions and their applications.

Calumet Undergrad Curriculum Committee Date

Calumet Department Head Date

Calumet School Dean Date

Calumet Chancellor

Fort Wayne Department Head Date

Fort Wayne School Dean Date

Undergraduate Curriculum Committee Date

Indianapolis Department Head Date

Indianapolis School Dean Date

North Central Chancellor Date

North Central Department Head Date

North Central School Dean Date

Graduate Council Secretary

West Lafayette Department Head Date

West Lafayette College/School Dean Date

Graduate Council Area Committee Chair Date

Graduate Dean Date

West Lafayette Registrar Date
TO: The Faculty of the College of Engineering
FROM: The Faculty of the School of Civil Engineering
RE: Changes in CE 371 Course Description and Prerequisite

From: CE 371 – Structural Analysis I
Sem. 1 and 2, Class 3, Cr. 3.

Prerequisite: CE 270 or 273. Authorized equivalent courses or consent of instructor may be used in satisfying course prerequisites.

Determination of reactions, shears, and bending moments; determination of deflections (emphasis on method of virtual work); force method of analysis; basis of direct stiffness method; analysis of beams and plane frames and trusses by computer; verification of computer-predicted behavior of structures by hand computation; loading for effect.

To: CE 371 – Structural Analysis I
Sem. 1 and 2, Class 3, Cr. 3.

Prerequisite: CE 270. Authorized equivalent courses or consent of instructor may be used in satisfying course prerequisites.

Stress resultants (reactions, axial forces, shear forces, and bending moments) for beams and framed structures. Deflections of beams and frames by geometric methods (moment-area theorems and applications; conjugate beam analogy). Analysis of statically indeterminate beams and frames by the flexibility method. Analysis of statically indeterminate beams and frames by classical stiffness methods: slope deflection and moment distribution. Influence functions and their applications.

Reason: To provide an updated course description and prerequisite.
### INSTRUCTIONS: Please check the items below which describe the purpose of this request.

- New course with supporting documents
- Add existing course offered at another campus
- Expiration of a course
- Change in course number
- Change in course title
- Change in course credit/type

### PROPOSED:
- Subject Abbreviation: CE
- Course Number: 567
- Long Title: Highway Traffic and Safety Analyses
- Short Title: HWY TRAF & SAFETY ANLY

### EXISTING:
- Subject Abbreviation
- Course Number

### TERMS OFFERED
- Check All That Apply:
  - Summer
  - Fall
  - Spring

### CAMPUS(ES) INVOLVED
- Calumet
- Indianapolis
- W. Lafayette
- Cont Ed
- Tech Statewide

### CREDIT TYPE
1. Fixed Credit: Cr. Hrs. 3.0
2. Variable Credit Range:
   - Minimum Cr. Hrs
   - (Check One) To Or
   - Equivalent Credit: Yes No
   - Thesis Credit: Yes No

### COURSE ATTRIBUTES
1. Pass/Not Pass Only
2. Satisfactory/Unsatisfactory Only
3. Repeatable
4. Credit by Examination
5. Designator Required
6. Special Fees
7. Registration Approval Type
8. Variable Title
9. Remedial
10. Honors
11. Full Time Privilege
12. Off Campus Experience

### COURSE DESCRIPTION
Sem. 2, Class 2, Lab. 3, cr. 3
Prerequisite: C E 463 or consent of instructor
Traffic and safety studies including traffic and safety impact studies, control and geometry improvements, hazard and countermeasures identification, predicting safety benefits, before-and-after studies; data collection and computer tools for highway traffic and safety evaluation.

Professor Tarko

### Dates
- Calumet Undergrad Curriculum Committee: Date
- Calumet Department Head: Date
- Calumet School Dean: Date
- Fort Wayne Department Head: Date
- Fort Wayne School Dean: Date
- Indianapolis Department Head: Date
- Indianapolis School Dean: Date
- North Central Department Head: Date
- North Central Chanceller: Date
- West Lafayette Department Head: Date
- West Lafayette School Dean: Date
- Graduate Area Committee Convener: Date
- Graduate Dean: Date
- Fort Wayne Chancellor: 3/24/05
- Undergrad Curriculum Committee: Date
- North Central Chancellor: 3/23/05
- Graduate Council Secretary: Date
- West Lafayette Registrar: Date

## Office of the Registrar