### PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION, OR REVISION OF AN UNDERGRADUATE COURSE
(100-400 LEVEL)

**ARTMENT:** Chemical 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 offered at another campus
- [ ] 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 (department head signature only)
- [ ] 8. Change in instructional hours
- [ ] 9. Change in course description
- [ ] 10. Change in course requisites
- [ ] 11. Change in semesters offered (department head signature only)
- [ ] 12. Transfer from one department to another

**PROPOSED:**

<table>
<thead>
<tr>
<th>Subject Abbreviation</th>
<th>Subject Abbreviation</th>
<th>CHE</th>
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</thead>
<tbody>
<tr>
<td>Course Number</td>
<td>Course Number</td>
<td>205</td>
</tr>
<tr>
<td>Long Title</td>
<td>Long Title</td>
<td></td>
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<tr>
<td>Short Title</td>
<td>Short Title</td>
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</tbody>
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Abbreviated title will be entered by the Office of the Registrar if omitted. (52 CHARACTERS ONLY)

**CREDIT TYPE**

1. Fixed Credit Cr. Hrs.
2. Variable Credit Range:
   - Minimum Cr. Hrs.
   - Maximum Cr. Hrs.
   - Equivalent Credit
   - Thesis Credit

**COURSE ATTRIBUTES:** Check All That Apply

1. Pass/No Pass Only
2. Satisfactory/Unsatisfactory Only
3. Repeatable
4. Maximum Repeatability Credit
5. Designator Required
6. Special Fees
7. Registration Approval Type
8. Department
9. Instructor
10. Honor
11. Full Time Privilege
12. Cross-Listed Courses

**COURSE DESCRIPTION (INCLUDE REQUISITES):**

Sem. 1, 2, Class 3, or 3

Prerequisites: PHYS 172, MA 161 or 165, ENGR 126
Corequisite: CHM 116 or 124

Quantitative applications of steady-state mass and energy balances to solve problems involving multi-component systems and multi-unit chemical processes. Single-component and multi-component phase equilibria, single-reaction and multiple-reaction stoichiometry, coupled mass and energy balances, chemical processes involving bypass and recycle streams.

**TERM OFFERED:**

- Summer
- Fall
- Spring

**CAMPUS(ES) INVOLVED:**

- Calumet
- Cont Ed
- FT Wayne
- W. Lafayette
- Indianapolis
- N. Central
- Tech Statewide

**INSTRUCTIONS:**

- Calumet Department Head
- Fort Wayne Department Head
- Indianapolis Department Head
- North Central Department Head
- West Lafayette Department Head

Office of the Registrar

21-06

West Lafayette Department Head Date

West Lafayette College/School Dean Date

West Lafayette Registrar Date
To: Faculty of the College of Engineering

From: Faculty of the School of Chemical Engineering

RE: CHE 205 Prerequisite change

The faculty of the School of Chemical Engineering has approved the following change and submits it for your approval.

From:

**CHE 205 Chemical Engineering Calculations**
Sem. 1, 2, Class 3, cr. 3
Prerequisites: PHYS 152; MA 161 or 165, CHM 116 or CHM 124, C S 156 or C S 158

Quantitative applications of steady-state mass and energy balances to solve problems involving multi-component systems and multi-unit chemical processes. Single-component and multi-component phase equilibria, single-reaction and multiple-reaction stoichiometry, coupled mass and energy balances, chemical processes involving bypass and recycle streams.

To:

**CHE 205 Chemical Engineering Calculations**
Sem. 1, 2, Class 3, cr. 3
Prerequisites: PHYS 172, MA 161 or 165, ENGR 126
Corequisite: CHM 116 or 124

Quantitative applications of steady-state mass and energy balances to solve problems involving multi-component systems and multi-unit chemical processes. Single-component and multi-component phase equilibria, single-reaction and multiple-reaction stoichiometry, coupled mass and energy balances, chemical processes involving bypass and recycle streams.

**Rationale:** The change of CHM 116 or 124 to a co-req for CHE 205 will allow for students who decide late in the first year program that they would like to matriculate into CHE to keep pace in the program. CS 158 is no longer offered. The course has been modified into CS 159 and is no longer a required course for First Year Engineering students. Chemical Engineering will not require this course any longer. Therefore, it must be removed as a pre-requisite for CHE 205. ENGR 126 contains a portion of C programming and should now be listed as a pre-requisite for CHE 205. PHYS 172 will replace PHYS 152 which is no longer taught by the PHYS department.

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

A. Varma, Head
School of Chemical Engineering
Date: 12/14/06