

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

21-06

DEPARTMENT Chemical 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 (department head signature only)  |
| <input type="checkbox"/> 2. Add existing course offered at another campus | <input type="checkbox"/> 8. Change in instructional hours                                 |
| <input type="checkbox"/> 3. Expiration of a course                        | <input type="checkbox"/> 9. Change in course description                                  |
| <input type="checkbox"/> 4. Change in course number                       | <input checked="" type="checkbox"/> 10. Change in course requisites                       |
| <input type="checkbox"/> 5. Change in course title                        | <input type="checkbox"/> 11. Change in semesters offered (department head signature only) |
| <input type="checkbox"/> 6. Change in course credit/type                  | <input type="checkbox"/> 12. Transfer from one department to another                      |

<b>PROPOSED:</b> Subject Abbreviation <input type="text"/> Course Number <input type="text"/> Long Title <input type="text"/> Short Title <input type="text"/> <small>Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY)</small>		<b>EXISTING:</b> Subject Abbreviation <u>CHE</u> Course Number <u>205</u>		<b>TERMS OFFERED</b> Check All That Apply: <input type="checkbox"/> Summer <input type="checkbox"/> Fall <input type="checkbox"/> Spring
		<b>CAMPUS(ES) INVOLVED</b> <input type="checkbox"/> Calumet <input type="checkbox"/> N. Central <input type="checkbox"/> Cont Ed <input type="checkbox"/> Tech Statewide <input type="checkbox"/> Ft. Wayne <input type="checkbox"/> W. Lafayette <input type="checkbox"/> Indianapolis		

<b>CREDIT TYPE</b> 1. Fixed Credit: Cr. Hrs. <input type="text"/> 2. Variable Credit Range: <input type="text"/> Minimum Cr. Hrs. <input type="text"/> To <input type="checkbox"/> Or <input type="checkbox"/> (Check One) Maximum Cr. Hrs. <input type="text"/> 3. Equivalent Credit: Yes <input type="checkbox"/> No <input type="checkbox"/> 4. Thesis Credit: Yes <input type="checkbox"/> No <input type="checkbox"/>		<b>COURSE ATTRIBUTES: Check All That Apply</b> 1. Pass/Not Pass Only <input type="checkbox"/> 2. Satisfactory/Unsatisfactory Only <input type="checkbox"/> 3. Repeatable <input type="checkbox"/> Maximum Repeatable Credit: <input type="text"/> 4. Credit by Examination <input type="checkbox"/> 5. Designator Required <input type="checkbox"/> 6. Special Fees <input type="checkbox"/> 7. Registration Approval Type <input type="checkbox"/> Department <input type="checkbox"/> Instructor <input type="checkbox"/> 8. Variable Title <input type="checkbox"/> 9. Remedial <input type="checkbox"/> 10. Honors <input type="checkbox"/> 11. Full Time Privilege <input type="checkbox"/> 12. Off Campus Experience <input type="checkbox"/>			
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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)	Cross-Listed Courses
Lecture							
ation							
antation							
Laboratory							
Lab Prep							
Studio							
Distance							
Clinic							
Experiential							
Research							
Ind. Study							
Pract/Observ							

**COURSE DESCRIPTION (INCLUDE REQUISITES):**  
 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.

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 Chancellor	Date
<i>Alvarado</i>	5-4-07	<i>[Signature]</i>	5/1/07
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

CFR Minutes 16

Date 2/22/07

Chairman CFR Michael J. ...

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY  
5800 S. UNIVERSITY AVENUE  
CHICAGO, ILLINOIS 60637

PHYSICAL CHEMISTRY  
BY  
RICHARD M. MAYER  
AND  
JAMES H. COOPER  
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