

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

23-00

DEPARTMENT EFFECTIVE SESSION

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 |

PROPOSED: Subject Abbreviation Course Number Long Title Short Title

EXISTING: Subject Abbreviation Course Number

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

TERMS OFFERED
Check All That Apply:
 Summer Fall Spring

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

CREDIT TYPE		COURSE ATTRIBUTES: Check All That Apply	
1. Fixed Credit: Cr. Hrs. <input type="text"/>	2. Variable Credit Range: <input type="text"/>	1. Pass/Not Pass Only <input type="checkbox"/>	7. Registration Approval Type <input type="checkbox"/>
Minimum Cr. Hrs. <input type="text"/>	(Check One) To <input type="checkbox"/> Or <input type="checkbox"/>	2. Satisfactory/Unsatisfactory Only <input type="checkbox"/>	Department <input type="checkbox"/>
Maximum Cr. Hrs. <input type="text"/>		3. Repeatable <input type="checkbox"/>	Instructor <input type="checkbox"/>
3. Equivalent Credit: Yes <input type="checkbox"/> No <input type="checkbox"/>		Maximum Repeatable Credit: <input type="text"/>	8. Variable Title <input type="checkbox"/>
4. Thesis Credit: Yes <input type="checkbox"/> No <input type="checkbox"/>		4. Credit by Examination <input type="checkbox"/>	9. Remedial <input type="checkbox"/>
		5. Designator Required <input type="checkbox"/>	10. Honors <input type="checkbox"/>
		6. Special Fees <input type="checkbox"/>	11. Full Time Privilege <input type="checkbox"/>
			12. Off Campus Experience <input type="checkbox"/>

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							
Lecture Presentation							
Laboratory							
Lab Prep							
Studio							
Distance							
Clinic							
Experiential							
Research							
Ind. Study							
Pract/Observ							

COURSE DESCRIPTION (INCLUDE REQUISITES):
Sem 1, 2, Class 3, cr. 3
Prerequisites: CHE 211, MA 262
Corequisite: CHM 261

Application of kinetic rate equations, mass balances and energy balances to the analysis and design of chemical reactors involving homogeneous and heterogeneous chemical reactions. Chemical equilibria, kinetic rate equations for homogeneous and heterogeneously catalyzed reactions, design of ideal isothermal reactors, effects of non-isothermal operation, effects of diffusion in porous catalysts and non-ideal mixing in continuous flow reactors.

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>A. Varner</i> West Lafayette Department Head _____	Date _____	<i>S-A-07</i> West Lafayette College/School Dean _____	Date _____
		<i>Michael G. Miller</i> West Lafayette Registrar _____	Date _____

To: Faculty of the College of Engineering
From: Faculty of the School of Chemical Engineering
RE: CHE 348 prerequisite and corequisite changes

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

From:
CHE 348 Chemical Reaction Engineering
Sem 1, 2, Class 3, cr. 3
Prerequisites: CHE 211, MA 261

Application of kinetic rate equations, mass balances and energy balances to the analysis and design of chemical reactors involving homogeneous and heterogeneous chemical reactions. Chemical equilibria, kinetic rate equations for homogeneous and heterogeneously catalyzed reactions, design of ideal isothermal reactors, effects of non-isothermal operation, effects of diffusion in porous catalysts and non-ideal mixing in continuous flow reactors.

To:
CHE 348 Chemical Reaction Engineering
Sem 1, 2, Class 3, cr. 3
Prerequisites: CHE 211, MA 262
Corequisite: CHM 261

Application of kinetic rate equations, mass balances and energy balances to the analysis and design of chemical reactors involving homogeneous and heterogeneous chemical reactions. Chemical equilibria, kinetic rate equations for homogeneous and heterogeneously catalyzed reactions, design of ideal isothermal reactors, effects of non-isothermal operation, effects of diffusion in porous catalysts and non-ideal mixing in continuous flow reactors.

Rationale: Due to a change in the required MA sequence for CHE students, the faculty has determined that it better serves the students to have completed MA 262 prior to entering CHE 348. Also, upon discussion, it has been determined that it is important for the students to be exposed to CHM 261 course materials before or simultaneously with the course material in CHE 348. ~~APPROVED FOR THE FACULTY~~ approved as a co-requisite for CHE 348.

**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

Mukul J. Jaitouski

