

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

DEPARTMENT Chemical Engineering

EFFECTIVE SESSION 1/05

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 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 |
| <input type="checkbox"/> | 6. Change in course credit/type | | |

PROPOSED:

Subject Abbreviation CHE
Course Number 377

EXISTING:

Subject Abbreviation CHE
Course Number 377

TERMS OFFERED

Check All That Apply:
Summer Fall Spring

Long Title Momentum Transfer

Short Title Momentum Transfer

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

CAMPUS(ES) INVOLVED

Calumet <input type="checkbox"/>	Fort Wayne <input type="checkbox"/>
Indianapolis <input type="checkbox"/>	N. Central <input type="checkbox"/>
W.Lafayette <input checked="" type="checkbox"/>	Cont Ed <input type="checkbox"/>
Tech Statewide <input type="checkbox"/>	

CREDIT TYPE

1. Fixed Credit: Cr. Hrs. 3
2. Variable Credit Range:
Minimum Cr. Hrs Or
(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	75/100	Syn	Live
Discussion	110	1	16	25	Syn	Internet
Laboratory						
Lab Prep						
Studio						
Distance						
Clinic						
Experiential						
Research						
Ind. Study						
Pract/Observ	110	1	16	0		

COURSE DESCRIPTION (INCLUDE REQUISITES):

CHE 377 Momentum Transfer Sem. 1. Class 3, cr. 3 (5 CHE).

Prerequisite: CHE 205; co-requisite: CHE 211 and MA 303 or equivalent.

Differential (microscopic) and integral (macroscopic) mass, momentum, and energy balances. Newtonian and non-Newtonian fluids. Fluid statics. One-dimensional steady and transient laminar flows. Turbulence. Dimensional analysis and similarity. Friction factors and drag coefficients. Applications to engineering analysis of practical problems. Introduction to numerical analysis and visualization of flows.

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	<i>Robert Thompson</i> 3/13/05 Undergrad Curriculum Committee	Date
North Central Department Head	Date	North Central Chancellor	Date	Date Approved by Graduate Council	
<i>A. Varma</i> West Lafayette Department Head	2-28-05	<i>Leah H. Jami</i> West Lafayette School Dean	3/2/05	Graduate Council Secretary	Date
Graduate Area Committee Convener	Date	Graduate Dean	Date	<i>Debra K. Shuck</i> West Lafayette Registrar	3/8/05 Date

MAN 15 2008