

**PURDUE UNIVERSITY**  
REQUEST FOR ADDITION, EXPIRATION,  
OR REVISION OF AN UNDERGRADUATE COURSE  
(10000-40000 LEVEL)

DEPARTMENT School of Chemical Engineering EFFECTIVE SESSION Spring 2013

**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 _____ Course Number _____ Long Title _____ Short Title _____	<b>EXISTING:</b> Subject Abbreviation <u>CHE</u> Course Number <u>37700</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
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Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)

<b>CREDIT TYPE</b> 1. Fixed Credit Cr. Hrs. _____ 2. Variable Credit Range: _____ Minimum Cr. Hrs. _____ (Check One) To <input type="checkbox"/> Or <input type="checkbox"/> Maximum Cr. Hrs. _____ 3. Equivalent 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: _____ 4. Credit by Examination <input type="checkbox"/> 5. Fees <input type="checkbox"/> Coop <input type="checkbox"/> Lab <input type="checkbox"/> Rate Request <input type="checkbox"/> Include comment to explain fee _____	6. Registration Approval Type <input type="checkbox"/> Department <input type="checkbox"/> Instructor <input type="checkbox"/> 7. Variable Title <input type="checkbox"/> 8. Honors <input type="checkbox"/> 9. Full Time Privilege <input type="checkbox"/> 10. Off Campus Experience <input type="checkbox"/>
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Schedule Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated	Cross-Listed Courses
Lecture	_____	_____	_____	_____	
Recitation	_____	_____	_____	_____	
Presentation	_____	_____	_____	_____	
Laboratory	_____	_____	_____	_____	
Lab Prep	_____	_____	_____	_____	
Studio	_____	_____	_____	_____	
Distance	_____	_____	_____	_____	
Clinic	_____	_____	_____	_____	
Experiential	_____	_____	_____	_____	
Research	_____	_____	_____	_____	
Ind. Study	_____	_____	_____	_____	
Pract/Observ	_____	_____	_____	_____	

**COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):**  
Prerequisites: CHE 20500 Minimum Grade of C and CHE 21100  
Concurrent Prerequisites: MA 30300

**\*COURSE LEARNING OUTCOMES**

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 Faculty Senate Chair _____	Date _____	Vice Chancellor for Academic Affairs _____	Date _____
West Lafayette Department Head <u>A Varma</u>	Date <u>7/1/2012</u>	West Lafayette College/School Dean <u>[Signature]</u>	Date <u>2/12/2012</u>
_____	_____	West Lafayette Registrar _____	Date _____

**TO:** The Faculty of the College of Engineering

**FROM:** The School of Chemical Engineering

**RE:** Change to Existing CHE 37700 Momentum Transfer in Requisites

The Faculty of the School of Chemical Engineering have approved the following changes to an existing course. This action is now submitted to the Engineering Faculty with a recommendation for approval.

**From:** CHE 37700 Momentum Transfer  
Sem. 1 and 2, Lec 3, Lab 2, Cr. 4

APPROVED FOR THE FACULTY  
OF THE SCHOOLS OF ENGINEERING  
BY THE ENGINEERING  
CURRICULUM COMMITTEE

Prerequisites: CHE 20500 Minimum Grade of C

Concurrent Prerequisites: CHE 21100 and MA 30300

Restrictions: Must be enrolled in one of the following Colleges:

School of Chemical Engineering

School of Agr and Bio Engr

Description: 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.

ECC Minutes

11/12/12

Date

11/29/12

Chairman ECC

*[Signature]*

**To:** CHE 37700 Momentum Transfer  
Sem. 1 and 2, Lec 3, Lab 2, Cr. 4

Prerequisites: CHE 20500 Minimum Grade of C and CHE 21100

Concurrent Prerequisites: MA 30300

Restrictions: Must be enrolled in one of the following Colleges:

School of Chemical Engineering

School of Agr and Bio Engr

Description: 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.

**Reason:** The Faculty of the School of Chemical Engineering has determined that student performance in this course would be better served by having students complete CHE 21100 Thermodynamics prior to enrolling in CHE 37700, rather than being

allowed to take these two courses together. Thus, CHE 21100 changes from a concurrent pre-requisite to a pre-requisite for CHE 37700. Furthermore, such a proposed change will not delay the time to graduation.

*A. Varma*

A. Varma, Head  
School of Chemical Engineering  
Date: 7/1/12