Office of the Registrar
FORM 40 REV. 12/09

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

EFD 62-10

DEPARTMENT: School of Chemical Engineering

EFFECTIVE SESSION: Fall 2010 SP 2011

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
- [x] 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:		EXISTING:	
Subject Abbreviation		Subject Abbreviation	CHE
Course Number		Course Number	20500
Long Title			
Short Title			

Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)

TERMS OFFERED
Check All That Apply:
[ ] Summer [x] Fall [x] Spring

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

CREDIT TYPE
1. Fixed Credit: Cr. Hrs. 4
2. Variable Credit Range:
Minimum Cr. Hrs
(Check One) To [ ] Or [ ]
Maximum Cr. Hrs
3. Equivalent 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. Special Fees [ ]
6 Registration Approval Type
Department [ ] Instructor [ ]
7 Variable Title [ ]
8 Honors [ ]
9 Full Time Privilege [ ]
10 Off Campus Experience [ ]

Schedule Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated
Lecture	50	3	16	75
Recitation	50	1	16	25
Presentation				
Laboratory				
Lab Prep				
Studio				
Distance				
Clinic				
Experiential				
Research				
Ind. Study				
Pract/Observ				

Cross-Listed Courses

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

No Change

*COURSE LEARNING OUTCOMES

Course Outcomes (numbers in parentheses refer to ABET program educational objectives)
1. Estimate physical properties of real systems (1).
2. Evaluate introductory single-component and multi-component phase equilibria and incorporate these concepts into solutions of mass and energy balance problems (1, 3).
3. Solve steady state and transient mass and energy balance problems for both reacting and non-reacting systems with or without recycle using

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: A Varma	5-12-10	West Lafayette College/School Dean: Gintaras V. Reklaitis	Date
West Lafayette Registrar: Sandra Haffner	9/10/10		

OFFICE OF THE REGISTRAR

9/9/10

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Course Number		Course Number	20500
Long Title			
Short Title			

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TERMS OFFERED
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CAMPUS(ES) INVOLVED
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(Check One) To ☐ Or ☐
Maximum Cr. Hrs
3. Equivalent Credit: Yes ☐ No ☐

COURSE ATTRIBUTES: Check All That Apply
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2. Satisfactory/Unsatisfactory Only ☐
3. Repeatable ☐
Maximum Repeatable Credit: ☐
4. Credit by Examination ☐
5. Special Fees ☐
6 Registration Approval Type
Department ☐ Instructor ☐
7 Variable Title ☐
8 Honors ☐
9 Full Time Privilege ☐
10 Off Campus Experience ☐

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Indianapolis Department Head	Date	Indianapolis School Dean	Date
North Central Faculty Senate Chair	Date	Vice Chancellor for Academic Affairs	Date
AVarma 5-12-10 t Lafayette Department Head	Date	West Lafayette College/School Dean	Date

West Lafayette Registrar Date

OFFICE OF THE REGISTRAR

To: The Faculty of the College of Engineering

From: The Faculty of the School of Chemical Engineering

Re: Change of existing CHE 20500, Chemical Engineering Calculations, from 3 credit hours to 4 credit hours.

The faculty of the School of Chemical Engineering has approved the following change. This action is now submitted to the Engineering Faculty with a recommendation for approval.

From:
CHE 20500 - Chemical Engineering Calculations
Sem 1 and 2, Lec 3, Cr. 3
Restrictions: Must be enrolled in the School of Chemical Engineering
Prerequisites:
ENGR 12600, MA 16500, PHYS 17200,
Concurrent Prerequisites: CHM 11600

Quantitative application 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 20500 - Chemical Engineering Calculations
Sem 1 and 2, Lec 3, Recitation 1, Cr. 4
Restrictions: Must be enrolled in the School of Chemical Engineering
Prerequisites:
ENGR 12600, MA 16500, PHYS 17200,
Concurrent Prerequisites: CHM 11600

Quantitative application 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.

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

ECC Minutes #25

Date 4/27/10

Chairman ECC R. Cipia

Reason: CHE 20500 is the first CHE course that is taken by students accepted into the School of Chemical Engineering, and as such provides the foundation needed for all subsequent chemical engineering courses. Furthermore, School of Chemical Engineering policy requires a "C" or higher for chemical engineering majors to enroll in any subsequent chemical engineering course. The additional credit hour will be used to convert the currently optional PSO (Practice, Study, Observation) into a required recitation session. Hence, all students will benefit from the additional review of lecture material and further problem solving exercises that are included in the recitation session.

AVarma

A. Varma, Head
School of Chemical Engineering
2/11/10