TO: The Faculty of the College of Engineering

FROM: The School of Chemical Engineering

RE: Change in requisites and term offered to existing CHE 45000 Design and Analysis of Processing Systems

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

FROM: CHE 45000 Design and Analysis of Processing Systems
Sem.2, Cr. 4

Prerequisites: CHE 30600 Minimum Grade of C-, CHE 37800 Minimum Grade of C-
Co-requisites: CHE 43500 Minimum Grade of D-
Description: Use of process and product synthesis methods and concepts; detailed design of unit operation equipment, the economics of chemical plants and flow sheet optimization methods. Synthesize, develop, and evaluate a preliminary design of a chemical process that meets market requirements for a specific product. Analysis of design alternatives using case studies and optimization methods.

TO: CHE 45000 Design and Analysis of Processing Systems
Sem.1 and 2, Cr. 4

Prerequisites: CHE 30600 Minimum Grade of C-, CHE 37800 Minimum Grade of C-, CHE 42000 Minimum Grade of D-, CHE 45600 Minimum Grade of a D-
Co-requisites: CHE 43500 Minimum Grade of D-
Description: Use of process and product synthesis methods and concepts; detailed design of unit operation equipment, the economics of chemical plants and flow sheet optimization methods. Synthesize, develop, and evaluate a preliminary design of a chemical process that meets market requirements for a specific product. Analysis of design alternatives using case studies and optimization methods.

REASON: The Faculty of the School of Chemical Engineering agreed to now offer CHE 45000 both fall and spring semesters to accommodate the growing needs of our students. To keep the original intent of CHE 45000 as the capstone for the ChE curriculum, the other two senior level courses (CHE 42000 & CHE 45600) which students can currently take after completing CHE 45000, now must be completed prior to enrolling in CHE 45000.

David Corti, Executive Officer

For Sangtae Kim, Jay and Cynthia Ihlenfeld Head
School of Chemical Engineering
**PURDUE UNIVERSITY**
**REQUEST FOR ADDITION, EXPIRATION, OR REVISION OF AN UNDERGRADUATE COURSE**
**(10000-40000 LEVEL)**

**DEPARTMENT:** School of Chemical Engineering (1283)  **EFFECTIVE SESSION:** Fall 2017

**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
- [ ] 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:**

- **Subject Abbreviation:**
- **Course Number:**
- **Course Title:** Design and Analysis of Processing Systems
- **Course Number:** 45000

**EXISTING:**

- **Subject Abbreviation:** CHE
- **Course Number:**

**TERMS OFFERED**

- [ ] Summer
- [x] Fall
- [ ] Spring

**CAMPUS(ES) INVOLVED**

- [ ] Calumet
- [ ] Cont Ed
- [x] Tech Statewide
- [x] Ft. Wayne
- [ ] W. Lafayette
- [ ] Indianapolis

**COURSE ATTRIBUTES:** Check All That Apply

- [ ] 1. Pass/No Pass Only
- [ ] 2. Satisfactory/Unsatisfactory Only
- [ ] 3. Repeatable
- [ ] 4. Credit by Examination
- [ ] 5. Fees
- [ ] 6. Registration Approval Type
- [ ] 7. Variable Title
- [ ] 8. Honors
- [ ] 9. Full Time Privilege
- [ ] 10. Off Campus Experience

**CREDIT TYPE**

- [ ] 1. Fixed Credit Cr. Hrs.
- [ ] 2. Variable Credit Range
- [ ] 3. Equivalent Credit

**SCHEDULE**

- **Lecture:**
- **Recitation:**
- **Presentation:**
- **Laboratory:**
- **Lab Prep:**
- **Studio:**
- **Distance:**
- **Clinic:**
- **Experimental:**
- **Research:**
- **Ind. Study:**
- **Practicum:**

**CROSS-CITED COURSES**

- [ ] CHE 30600 Minimum Grade of C-
- [ ] CHE 37800 Minimum Grade of C-
- [ ] CHE 42000 Minimum Grade of D-
- [ ] CHE 45600 Minimum Grade of D-

**Prerequisites:** CHE 30600 Minimum Grade of C-, CHE 37800 Minimum Grade of C-, CHE 42000 Minimum Grade of D-, CHE 45600 Minimum Grade of D-

**COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):**

**COURSE LEARNING OUTCOMES**

**Column Department Head**

- [ ] Date

**Column 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**

- [ ] Date

**West Lafayette School Dean**

- [ ] Date

**West Lafayette Registrar**

- [ ] Date

**OFFICE OF THE REGISTRAR**