Date: September 21, 2011

To: Dr. Marshall Jones, Chair  
Undergraduate Curriculum Committee

From: Dr. Jonathan Whitlow, Associate Professor  
Department of Chemical Engineering

Through: Dr. Manolis Tomadakis, Department Head  
Department of Chemical Engineering

Through: Dr. Ed Kalajian, Associate Dean  
College of Engineering

Subject: Request to change credit distribution between the Senior Capstone Design courses CHE 4181 and 4182 and change course restrictions within the curriculum to support a re-arrangement in the offering of required courses

Request - The Chemical Engineering Department is requesting Undergraduate Curriculum Committee approval to change the number of credits associated with the two courses in the Senior Capstone Design sequence: CHE 4181 will change from 2 credits to 3 credits and CHE 4182 will change from 4 credits to 3 credits. Approval is also requested to change the pre-requisites and/or co-requisites for several courses in the curriculum, to support a re-arrangement in the offering of required courses serving the goal of quality enhancement and continuous improvement.

Justification - The request is being initiated after curriculum review and discussions within the Chemical Engineering Department how to best arrange its required courses for optimal student learning and preparedness for the senior capstone sequence CHE 4181 and CHE 4182. Specific changes proposed are justified as follows:

1. **Changing the credit distribution for the Chemical Engineering Senior Capstone Design sequence (CHE 4181 & CHE 4182)** - Based on the annual QEP assessment performed in May 2011 it was concluded that the capstone sequence would be better served and quality enhanced by moving some of the content in the CHE 4182 back into CHE 4181. This change will give the students two semesters to define and work on their projects instead of the current one semester class. The 2-credit CHE 4181 provides the tools needed for the students to carry out their project but did not include time to work on the project. The proposed change adds one credit to CHE 4181 to be devoted to developing and writing a project proposal. The 4-credit CHE 4182 course is reduced by one credit to keep the 2-course sequence at a total of 6 credits.

2. **Moving the Chemical Engineering Processes Lab sequence (CHE 3115 & CHE 4115) back by one semester** - Having the labs pushed back into the senior year will improve the quality of these courses as the students will have taken an additional semester of Chemical Engineering courses
before taking the labs. This will increase their understanding of the material taught in the labs which are designed to reinforce concepts learned in the Chemical Engineering lecture courses. This change also places an additional Chemical Engineering course into the Spring Semester of the senior year, thus better distributing the load of demanding Chemical Engineering courses.

3. **Exchanging the semesters in the curriculum flow chart for Chemical Process Control (CHE 4122) with Chemical Engineering Reactor Design (CHE 4151)** – Having the students take CHE 4122 prior to CHE 4151 aids the change in curriculum for CHE 3115 and CHE 4115 discussed above. The 4-credit CHE 4122 course replaces the 2-credit CHE 3115 and 3-credit CHE 4151 in the spring of the junior year. This reduces the credits of the junior spring semester from 17 to 16 and the number of courses from 6 to 5. This should also benefit the students as the spring semester of the junior year is arguably the most difficult semester in the CHE B.S. curriculum. Additionally, teaching Reactor Design (CHE 4151) in the fall semester of the senior year will facilitate reinforcement of reactor design concepts through the process simulation material taught co-currently in CHE 4181.

4. **Exchanging the semesters in the curriculum flow chart for Scientific and Technical Communications (COM 2223) with the Humanities Core Course** – Having our CHE students take COM 2223 earlier in their curriculum will benefit them since they have several courses in which they are required to submit written design reports.

5. **Changing course pre-requisites and co-requisites** - As a part of our curriculum review, all pre-requisites and co-requisites for each CHE course were examined. A change of existing corequisites and/or prerequisites for the following courses is requested:

   **CHE 4122** – One prerequisite is added (CHE 4240) and one is removed (CHE 3103) – The course CHE 4240 Advanced Computational Methods for Engineering Applications will be taught as a required course beginning with the fall semester of 2012. It contains Matlab material that will be used in CHE 4122. During the curriculum review it was decided that CHE 3103 was not needed as a pre-requisite and that required material from that course is covered in CHE 4240.

   **CHE 4115** – The current CHE 4122 corequisite for the course is changed to a prerequisite due to the change in the semesters the two courses are offered. CHE 4131 prerequisite is also added, since material covered in that course is needed in CHE 4115.

   **CHE 3115** - Current corequisites for the course are changed to prerequisites due to the change in the semester this course is offered.

   **CHE 1102** – During the curriculum review it was decided that the current prerequisite of CHE 1101 should be dropped, as the material taught in CHE 1101 is not used in CHE 1102 and the order in which each course is taken is not important.
The addition or removal of any graduation requirement in a major or minor requires that this form, accompanied by supporting documentation, be completed and approved as indicated below. Incomplete or incorrect forms will not be processed.

COLLEGE: Engineering  DEPARTMENT: Chemical Engineering

DEGREE LEVEL: B.S.  PROGRAM TITLE: Chemical Engineering

TO BE INITIATED WITH CATALOG YEAR 20_12_20_13

CHANGE REQUESTED FOR  ☑ major program  ☐ minor program

Date change to be initiated must be for a future academic year.

DESCRIPTION OF REQUESTED CHANGES: Attach a more detailed description and any supporting documentation.

This request does not change any program requirements, however the number of credits associated with each of the courses in the senior capstone sequence will change. CHE 4181 will change from 2 credits to 3 credits and CHE 4182 will change from 4 credits to 3 credits.

Based on the annual QEP assessment performed in May 2011 it was concluded that the capstone sequence would be better served and quality enhanced by moving some of the content in the CHE 4182 back into CHE 4181. This change will give the students two semesters to define and work on their projects instead of the current one semester class. The 2 credit CHE 4181 which provides the tools needed for the students to carry out project did not include time to work on the project. The proposed change increases CHE 4181 to 3 hours with a credit being devoted to developing and writing a project proposal. By doing this the 4 credit CHE 4182 course is reduced by one credit to keep the 2-course sequence at a total of 6 credits.

Approvals: On completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee, for approval below and forward to the Office of the Registrar.

Origination: 9/26/11

Chair, Graduate Council: Date

OR

Department Head / Major Program Chair: 9/26/11

Chair, Undergraduate Curriculum Committee: Date

Dean or Associate Dean: 9-26-11

REGISTRAR'S USE ONLY

University Catalog: ☐ Yes ☐ No  Update completed: Date  Initials

CAPP / Degree Evaluation: ☐ Yes ☐ No  Update completed: Date  Initials

Catalog / Policy Mgmt. System: ☐ Yes ☐ No  Update completed: Date  Initials
## Chemical Engineering BS Program Curriculum
### Proposed Changes Highlighted

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<th>Current 2012-13</th>
<th>Proposed 2012-13</th>
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<td>COM 2223 Scientific and Technical Communications</td>
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<td>Free Elective</td>
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*BUS 3xxx may be taken in place of three credit hours of Technical Elective.*
The addition or removal of any restriction or change in credit hours in a course requires that this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE: Engineering

DEPARTMENT: Chemical Engineering

REQUEST IS FOR CHANGE IN COURSE

Prefix: C
Number: 4181
Course Title: Chemical Engineering Plant Design 1

TO BE INCLUDED IN 2012 CATALOG AND EFFECTIVE IN THE BANNER SYSTEM FOR Fall 2012 TERM

Effective term must be a future term for which registration has not begun. Catalog year will be the next printed edition. Earlier terms/years will not be processed.

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? ☑ Yes ☐ No
If yes, current credits 2 __________ requested credits 3 __________

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? ☑ Yes ☐ No
If yes, please check all that apply:
☐ Add ☐ Remove ☐ Prerequisite ☐ Co-requisite

☐ and ☐ or

Prefix Number Prefix Number

☐ Add ☐ Remove ☐ Prerequisite ☐ Co-requisite

☐ and ☐ or

Prefix Number Prefix Number

☐ Add ☐ Remove ☐ Other Restrictions* ☐ Yes ☐ No
If yes, please list below:

*Other restrictions may include changing the grades applied to the course (P/F, S/U, A-F, CEU), majors or class levels restricted from registration, or other restrictions.

See attached justification

APPROVALS: Once appropriate department approvals are completed, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for signatures below and forward to Catalog Director.

1) Originator
Date

2) Department Head/Program Chair
Date

3) Dean or Associate Dean
Date

Chair, Graduate Council
Date

Chair, Undergraduate Curriculum Committee
Date

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COLLEGE: Engineering  DEPARTMENT: Chemical Engineering

REQUEST IS FOR CHANGE IN COURSE: CHE 4182  Chemical Engineering Plant Design 2

TO BE INCLUDED IN 2012/2013 CATALOG AND EFFECTIVE IN THE BANNER SYSTEM FOR Fall 2012 TERM

Effective term must be a future term for which registration has not begun. Course title will be the next printed edition. Earlier terms/years will not be processed.

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? [X] Yes  [ ] No  If yes, current credits [ ] and [ ] or

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? [ ] Yes  [ ] No  If yes, please check all that apply:

- [ ] Add  [ ] Remove  [ ] Prerequisite  [ ] Corequisite
- [ ] Add  [ ] Remove  [ ] Prerequisite  [ ] Corequisite
- [ ] Add  [ ] Remove  [ ] Prerequisite  [ ] Corequisite
- [ ] Add  [ ] Remove  [ ] Other Restrictions

Other restrictions may include changing the grades applied to the course (P/F, S/U, A-F, CEU), majors or class levels restricted from registration, or other restrictions.

See attached justification

APPROVALS: Once appropriate department approvals are completed, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for signatures below and forward to Catalog Director.

1) [Signature]  [Date]
   Originator

2) [Signature]  [Date]
   Department Head/Program Chair

3) [Signature]  [Date]
   Dean or Associate Dean

4) [Signature]  [Date]
   Chair, Graduate Council

OR

[Signature]  [Date]
   Chair, Undergraduate Curriculum Committee

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COLLEGE: Engineering
DEPARTMENT: Chemical Engineering

REQUEST IS FOR CHANGE IN COURSE CHE 4122 Chemical Process Control

TO BE INCLUDED IN 2013 CATALOG AND EFFECTIVE IN THE BANNER SYSTEM FOR Fall 2012 TERM

Effective term must be a future term for which registration has not begun. Catalog year will be the next printed edition. Earlier terms/years will not be processed.

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? ☐ Yes ☒ No If yes, current credits requested credits

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? ☐ Yes ☐ No If yes, please check all that apply:
☐ Add ☐ Remove ☒ Prerequisite ☐ Corequisite CHE 4240 Prefix Number and or 

☐ Add ☐ Remove ☒ Prerequisite ☐ Corequisite CHE 3103 Prefix Number and or 

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite Prefix Number and or 

☐ Add ☐ Remove ☐ Other Restrictions* ☐ Yes ☐ No If yes, please list below:
*Other restrictions may include changing the grades applied to the course (P/F, S/U, A-F, CEU), majors or class levels restricted from registration, or other restrictions.

See attached justification

APPROVALS: Once appropriate department approvals are completed, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for signatures below and forward to Catalog Director.

1) Originator Date 9/21/11
2) Department Head/Program Chair Date 9/21/11
3) Dean or Associate Dean Date 9-26-11
4) Chair, Graduate Council Date

OR

Chair, Undergraduate Curriculum Committee Date

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The addition or removal of any restriction or change in credit hours in a course requires that this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE: Engineering
DEPARTMENT: Chemical Engineering

REQUEST IS FOR CHANGE IN COURSE: CHE 4115 Chemical Engineering Processes Lab 2

TO BE INCLUDED IN 2012-2013 CATALOG AND EFFECTIVE IN THE BANNER SYSTEM FOR Fall 2012 TERM

Effective term must be a future term for which registration has not begun. Catalog year will be the next printed edition. Earlier terms/years will not be processed.

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? □ Yes □ No If yes, current credits ______ requested credits ______

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? □ Yes □ No If yes, please check all that apply:

☐ Add □ Remove ☐ Prerequisite ☐ Corequisite CHE 4122 and or

☐ Add □ Remove ☐ Prerequisite ☐ Corequisite CHE 4122 and or

☐ Add □ Remove ☐ Prerequisite ☐ Corequisite CHE 4131 and or

☐ Add □ Remove ☐ Other Restrictions* □ Yes □ No If yes, please list below:

*Other restrictions may include changing the grades applied to the course (P/F, S/R, A-F, CEU), majors or class levels restricted from registration, or other restrictions.

See attached justification

APPROVALS: Once appropriate department approvals are completed, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for signatures below and forward to Catalog Director.

1) Originator 9/20/11

2) Department Head/Program Chair 9/21/11

3) Dean or Associate Dean 9/26/11

4) Chair, Graduate Council Date

OR

Chair, Undergraduate Curriculum Committee Date

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The addition or removal of any restriction or change in credit hours in a course requires that this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE: Engineering

DEPARTMENT: Chemical Engineering

REQUEST IS FOR CHANGE IN COURSE CHE 3115 Chemical Engineering Processes Lab 1

TO BE INCLUDED IN 2012/2013 CATALOG AND EFFECTIVE IN THE BANNER SYSTEM FOR Fall 2012 TERM
Effective term must be a future term for which registration has not begun. Catalog year will be the next printed edition. Earlier terms/years will not be processed.

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE?  No Yes

If yes, current credits requested credits

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE?  No Yes

If yes, please check all that apply:

☐ Add  ☐ Remove  ☚ Prerequisite  ☚ Corequisite CHE 3103Prefix CHE 3103Number

☐ Add  ☐ Remove  ☚ Prerequisite  ☚ Corequisite CHE 3104Prefix CHE 3104Number

☐ Add  ☐ Remove  ☚ Prerequisite  ☚ Corequisite

☐ Other Restrictions*  No Yes If yes, please list below:

Other restrictions may include changing the grades applied to the course (P/F, S/U, A-F, CEU), majors or class levels restricted from registration, or other restrictions.

Remove Corequisite CHE 3104

See attached justification

APPROVALS: Once appropriate department approvals are completed, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for signatures below and forward to Catalog Director.

1) Originator

Date 9/25/11

2) Department Head/Program Chair

Date 9/26/11

3) Dean or Associate Dean

Date

4) Chair, Graduate Council

Date

OR

Chair, Undergraduate Curriculum Committee

Date

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The addition or removal of any restriction or change in credit hours in a course requires that this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE: Engineering DEPARTMENT: Chemical Engineering

REQUEST IS FOR CHANGE IN COURSE CHE 1102 Introduction to Chemical Engineering 2

PREFIX: CHE NUMBER: 1102

TO BE INCLUDED IN 2012-13 CATALOG AND EFFECTIVE IN THE BANNER SYSTEM FOR FALL 2012 TERM

Effective term must be a future term for which registration has not begun. Catalog year will be the next printed edition. Earlier terms/years will not be processed.

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? ☐ Yes ☑ No If yes, current credits ________ requested credits ________

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? ☐ Yes ☑ No If yes, please check all that apply:

☐ Add ☑ Remove ☑ Prerequisite ☐ Corequisite CHE 1101

PREFIX: CHE NUMBER: 1101

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite

☐ Add ☐ Remove ☐ Other Restrictions* ☑ Yes ☑ No If yes, please list below:

*Other restrictions may include changing the grades applied to the course (P/F, S/U, A-F, CEU), majors or class levels restricted from registration, or other restrictions.

See attached justification

APPROVALS: Once appropriate department approvals are completed, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for signatures below and forward to Catalog Director.

1) Originator 9/20/11

2) Department Head/Program Chair 9/21/11

3) Dean or Associate Dean 9-26-11

4) Chair, Graduate Council Date

Or

Chair, Undergraduate Curriculum Committee Date

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