The Chemical Engineering Department is requesting Undergraduate Curriculum Committee approval to apply the following changes to the Chemical Engineering B.S. Program curriculum:

1. Replace the current “Humanities or Social Science Elective” requirement (spring of Senior Year) with a “Technical Elective” requirement.

The current Chemical Engineering B.S. Program curriculum satisfies the core requirements in Humanities and Social Science (p. 37, 2012-13 Catalog) as follows: (a) Humanities (9 credits required): HUM 2051 – Civilization 1 (3 cr.); Humanities Core Course (3 cr.); Humanities Elective (3 cr.); (b) Social Sciences (3 credit hours required): BUS 1301 Basic Economics (3 cr.). In addition to that, the curriculum includes a “Humanities or Social Science Elective” (3 credit hours), which is obviously in excess of the above listed core requirements. It is proposed that this elective course be replaced by a “Technical Elective” one. This will “return” to the curriculum the technical elective spot that was eliminated last year with the introduction of CHE 4240 Advanced Computational Methods for Engineering Applications as a required course, thus strengthening further the technical background of our graduates. The proposed change will also serve the interests of the increasing number of Chemical Engineering students who choose to pursue one of the available technical concentrations (achieved through proper selection of an adequate number of technical electives and the free elective). The change will be more beneficial yet to our ProTrack students, whose curriculum flowchart includes one less technical and one less free elective (substituted for two of their three co-op experiences).
2. Exchange the semesters for COM 2223 Scientific and Technical Communications and HUM 2051 Civilization 1: Ancient through Medieval. Having our students take COM 2223 earlier in their curriculum – in the sophomore year – will benefit them in several junior and senior courses in which they are required to submit written design and lab reports.

3. Change the restrictions for nine courses within the B.S. curriculum, namely, five required courses (CHE 2101, 2102, 3260, 3265, 4240) and four electives (CHE 4230, 4250, 4284, 4288), as shown in the attached forms. The request is being initiated after curriculum review and discussions within the Chemical Engineering Department, aiming to improve student preparedness for the material of each course and remove unnecessary restrictions, thus helping optimize student learning and serving the goal of continuous improvement.

The only requested changes that affect programs other than Chemical Engineering are:

A. The prerequisite changes for CHE 3260 & CHE 3265 Materials Science and Engineering and Materials Lab: These two courses are required also in the Aerospace Engineering, Biomedical Engineering, and Mechanical Engineering B.S. Programs. Currently CHE 3265 has one prerequisite, PHY 2091, and one corequisite, CHE 3260; whereas CHE 3260 has three prerequisites: CHM 2101, PHY 1001, and MTH 1002 (which therefore are in effect prerequisites for CHE 3265, too). The proposed change would make MTH 1002 a corequisite for CHE 3260 (because that’s what is really needed for the lecture course) and at the same time specify MTH 1002 as a prerequisite for CHE 3265 (because it still is a true prerequisite for the lab course, as it has always been, in effect). Obviously then, this request does not add any restrictions to any of these courses, but only changes one prerequisite to a corequisite, to better serve students and minimize the need for waiver forms. Given that MTH 1002 is also a corequisite for PHY 1001 (which in turn is a prerequisite for CHE 3260), this change will benefit primarily those students who completed PHY 1001 but did not complete (i.e., failed or withdrew from) MTH 1002: They will now be able to register for CHE 3260 (still not able to register for CHE 3265). Students and advisors in the AE, BME, CHE, and ME programs will benefit from the clarification of the prerequisite situation in CHE 3260/3265: Numerous prerequisite waiver forms were submitted every semester for these two courses, mostly for MTH 1002 (i.e.; to accept it as a corequisite, or waive it altogether), because it was not clear to the involved parties that such forms were signed only to accept the course as a corequisite for CHE 3260 for students who are not registered for CHE 3265. The proposed changes will finally make this “official”, eliminating the need for any such waiver forms, and simplifying registration for the more than 150 students taking these courses every year.

B. The prerequisite change for CHE 4240 Advanced Computational Methods for Engineering Applications: Starting in Fall 2014 this course will be offered also to Biomedical Engineering junior students, as a required course, under the name BME 3240 Computational Methods for Biological Systems. The proposed elimination of one of the two currently listed prerequisites of CHE 4240 (specifically, MTH 2001 Calculus 3) would obviously not create any problem to the Biomedical Engineering B. S. curriculum. However, the same change must be made also to the restrictions of BME 3240, therefore a form has been completed to that effect, signed by BME Program Chair Dr. Kunal Mitra, and included in this package.
The following two changes are requested:

1. The "Humanities or Social Science Elective" (currently required in the Senior Year) to be replaced by a "Technical Elective".

2. HUM 2051 Civilization 1 to exchange semesters with COM 2223 Scientific and Technical Communications: The former to be moved to the Fall of the Junior Year, and the latter to the Spring of the Sophomore Year.

Both requested changes are highlighted on the next page and explained/justified in the attached memo.
## Chemical Engineering BS Program Curriculum

**Proposed Changes Highlighted**

<table>
<thead>
<tr>
<th>Current 2012-13</th>
<th>Proposed 2013-14</th>
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<tbody>
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<tr>
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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.

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<th>DEPARTMENT</th>
<th>CHEMICAL ENGINEERING</th>
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REQUEST IS FOR CHANGE IN COURSE:  

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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  
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  | Prefix | Number |
  | MTH    | 1002   |
- ☒ Add  ☒ Remove  ☒ Prerequisite  □ Corequisite  
  | Prefix | Number |
  | MTH    | 1001   |
- ☒ Add  ☒ Remove  ☒ Other Restrictions*  ☒ Yes  □ No  If yes, please list below:

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

Add Prerequisite CHM 1101

---

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: 3/2/12  

2)  
   Department Head/Program Chair:  
   Date: 3/23/12  

3)  
   Dean/Associate Dean:  
   Date: 4-12-12  

4)  
   Chair, Graduate Council:  
   Date:  

   OR

   Chair, Undergraduate Curriculum Committee:  
   Date:  

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CHANGING RESTRICTIONS OR CREDITS IN A COURSE

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COLLEGE: ENGINEERING

DEPARTMENT: CHEMICAL ENGINEERING

REQUEST IS FOR CHANGE IN COURSE CHE 2102 CHEMICAL PROCESS PRINCIPLES 2

TO BE INCLUDED IN 2013/2014 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 published 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

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.

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 3/21/12

2) Department/Program Chair 3/31/12

3) Dean or Associate Dean 4/12/12

4) Chair, Graduate Council Date  

OR

Chair, Undergraduate Curriculum Committee Date

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COLLEGE: ENGINEERING  DEPARTMENT: CHEMICAL ENGINEERING

REQUEST IS FOR CHANGE IN COURSE:  CHE 3260  MATERIALS SCIENCE AND ENGINEERING

PREFIX:  Number:  COURSE TITLE:  

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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  ☐ and  ☐ or

☐ Add  ☐ Remove  ☐ Prerequisite  ☐ Corequisite  ☐ and  ☐ or

☐ Add  ☐ Remove  ☐ Prerequisite  ☐ Corequisite  ☐ 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, S, U, A, F, CEU), majors or class levels restricted from registration, or other restrictions.

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]  3/2/12  OR  4) [Signature]  Date  Chair, Graduate Council  Date

2) [Signature]  3/6/12  Date  OR

3) [Signature]  4/12/12  Date  Chair, Undergraduate Curriculum Committee  Date

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**COLLEGE:** ENGINEERING  
**DEPARTMENT:** CHEMICAL ENGINEERING

**REQUEST IS FOR CHANGE IN COURSE**  
Prefix: C  
Number: H  
3  
2  
6  
5  
**MATERIALS LABORATORY**  
**Course title**

**TO BE INCLUDED IN 2013/2014 CATALOG**  
AND EFFECTIVE IN THE BANNER SYSTEM FOR FALL 2012 TERM

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**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  

☐ Add  ☐ Remove  ☐ Prerequisite  ☐ Corequisite  

☐ Add  ☐ Remove  ☐ Prerequisite  ☐ Corequisite  

If yes, please list below:

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

---

**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)  
Original  
Date: 3/1/12

2)  
Dean or Associate Dean  
Date: 4/12/12

3)  
Department Head/Program Chair  
Date: 5/1/12

4)  
Chair, Graduate Council  
Date

OR

Chair, Undergraduate Curriculum Committee  
Date

---

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COLLEGE: ENGINEERING

DEPARTMENT: CHEMICAL ENGINEERING

REQUEST IS FOR CHANGE IN COURSE: CHE 4230

SPECIAL TOPICS IN SEPARATION PROCESSES & UNIT OPS

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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 C H E 4 1 3 1
Prefix Number

☐ Add ☐ Remove ☐ Prerequisite ☑ Corequisite C H E 3 1 0 4
Prefix Number

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

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) ________________________________ 3/12/12 4) ________________________________
Origina/ Date Chars, Graduate Council Date

2) ________________________________ 3/23/12 OR
Department Chair/Program Chair Date

3) ________________________________ 4/12/12
Dean or Associate Dean Date

Chas, Undergraduate Curriculum Committee Date

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COLLEGE: ENGINEERING

DEPARTMENT: CHEMICAL ENGINEERING

REQUEST IS FOR CHANGE IN COURSE C H E 4 2 4 0

ADVANCED COMPUTATIONAL METHODS

Prefix Number

TO BE INCLUDED IN 2013/2014 CATALOG AND EFFECTIVE IN THE BANNER SYSTEM FOR FALL 2012 TERM

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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? ☐ Add ☒ Remove ☒ Prerequisite ☐ Corequisite M T H 2 0 0 1 ☐ and ☐ or

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite ☐ 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, CEI), majors or class levels restricted from registration, or other restrictions.

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

(3/11/12)

Date

2) Department Head/Program Chair

(3/23/11)

Date

3) Dean or Associate Dean

(4/2/12)

Date

4) Chair, Graduate Council

Date

OR

Chair, Undergraduate Curriculum Committee

Date

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CHANGING RESTRICTIONS
OR CREDITS IN A COURSE

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: BIOMEDICAL ENGINEERING PROGRAM

REQUEST IS FOR CHANGE IN COURSE: B M E 3 2 4 0

COMPUTATIONAL METHODS FOR BIOLOGICAL SYSTEMS

Prefix Number Course Title

TO BE INCLUDED IN 20 1 3 / 2 0 1 4 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? X Yes □ No If yes, current credits requested credits

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

□ Add □ Remove □ Prerequisite □ Corequisite M T H 2 0 0 1 □ and □ or

□ Add □ Remove □ Prerequisite □ Corequisite Prefix Number

□ Add □ Remove □ Prerequisite □ Corequisite 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.

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) Origination Date

2) Department/Program Chair Date

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 4250
INTRODUCTION TO BIOCHEMICAL ENGINEERING

TO BE INCLUDED IN 2013/2014 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 4151 ☒ and ☐ or
☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite ☒ and ☐ or
☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite ☒ and ☐ or
☐ Add ☐ Remove ☒ Other Restrictions* ☐ Yes ☐ No If yes, please list below:
*Other restrictions may include changing the grades applied to the course (FV, S/U, A, F, CU), majors or class levels restricted from registration, or other restrictions.

Add Prerequisite of Senior Standing in Chemical Engineering

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) Orignator 3/21/12
2) Department Head/Program Chair 3/23/12
3) Dean or Associate Dean 4-12-12

4) Chair, Graduate Council Date

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 NUMBER

Prefix: 4 2 8 4

Course Title: INDUSTRIAL SAFETY

TO BE INCLUDED IN 2013/2014 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

☐ Prefix Number and ☐ or

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite

☐ 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 (NV, SU, A-F, CR/), majors or class levels restricted from registration, or other restrictions.

Replace Requirement of Senior Standing in Science or Engineering with Junior Standing in Science or Engineering

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) Origantor Date 3/2/12

2) Department Head/Program Chair Date 3/23/12

3) Dean or Associate Dean Date 4-12-12

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.

REQUEST IS FOR CHANGE IN COURSE: CHE 4288 PETROLEUM PROCESSING

TO BE INCLUDED IN 2013/2014 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 4181 ☑ and ☐ or

☐ Add ☐ Remove ☑ Prerequisite ☐ Corequisite CHE 2102 ☐ and ☐ or

☐ Add ☐ Remove ☑ Prerequisite ☐ Corequisite CHM 2002 ☑ 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/IP, S/U, A-F, CEU), majors or class levels restricted from registration, or other restrictions.

Remove requirement "Graduate standing or prerequisite course"

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) _______ 2) _______ 3) _______ 4) _______

Orig Vator Date Chair, Graduate Council Date

Department Head/Program Chair Date OR

Dean or Associate Dean Date

Chair, Undergraduate Curriculum Committee Date

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