

**UNDERGRADUATE AND PROFESSIONAL MAJOR CHANGE BULLETIN NO. 6
Spring 2014**

---REQUIREMENTS---

Faculty Senate Approved February 13, 2014

The requirements listed below reflect the undergraduate major curricular changes approved by the Catalog Subcommittee since approval of the last Undergraduate Major Change Bulletin. All changes are underlined. Deletions are crossed out. The column to the far right indicates the date each change becomes effective.

Dept	Proposed	Effective Date
<p>Chemical Engineering and Bioengineering Revise certification and graduation requirements for BS in Bioengineering – General Option.</p>	<p>Bioengineering, General Option(122 Hours) Students who plan to pursue pre-med studies should consult their advisor for further information about appropriate courses.</p> <p>Criteria for Certification – Bioengineering Program</p> <p>1) In March of each year, the faculty of the School of Chemical Engineering and Bioengineering will establish the total number of students (June and January) to be certified into the Bioengineering program.</p> <p>2) Each student will be considered for certification during the semester after she/he has completed all of the following courses: MATH 171, MATH 172, CHEM 105, CHEM 106, BIOLOGY 107, PHYSICS 201, CHE 201, BIO-ENG 210.</p> <p>3) To be certified, each student must meet the following minimum standards:</p> <p>a. 2.0 cumulative GPA.</p> <p>b. A “C” grade or better in each of the courses listed in 2) above.</p> <p>c. Students must be in good academic standing (semester gpa 2.00 or higher) at the time they are being considered for certification.</p> <p>4) Certification decisions will be made at the end of Fall and Spring semesters, and those being certified at the end of Spring semester will be notified by June 1, while those being certified at the end of Fall semester will be notified by January 15.</p> <p>5) If the number of students seeking certification exceeds the program capacity, as determined in 1) above, additional criteria will be used to select those who are certified. Those criteria include: (a) average gpa received in the courses listed in 2) above; (b) average gpa earned in all the engineering/math/science courses which have already been completed; and (c) the gpa earned during the previous semester.</p> <p>6) Students who have completed all the courses listed in 2) above, but who are not certified will be</p>	<p align="center">8-14</p>

notified of the decision according to the time table described in 4) above. Such students who are not certified may appeal the decision. This appeal should describe any special circumstances which should be considered. A faculty committee will consider the appeal, the special circumstances described, and trends in the grades (e.g. trends in grades and/or withdrawals, typical course load attempted and typical course load completed) and make a final decision regarding certification. The appeal must be submitted within 2 weeks of the of the notification described in 4) above. The appeal will be considered and a decision made by July 1 and February 15.

7) Students who are deficient under the University's Educational Policies and Procedures are subject to decertification.

a. The first semester that a student is deficient, she/he must apply for recertification, stating changes that will be made to ensure success and explaining extenuating circumstances, if any, that hindered success. The student must provide sufficient information so that a reasonable individual will assume that the student will likely be able to successfully complete the program.

b. The second time that a student is deficient, she/he may apply to be recertified. However, such recertification will be granted only under rare, extenuating conditions.

8) Students are allowed a maximum total of one repeat among all core courses.

First Year

First Term **Hours**

CHEM 105 [PSCI] 4

ENGLISH 101 [WRTG] 3

ENGR 120 2

HISTORY 105 [ROOT] 3

MATH 171 [QUAN] 4

Second Term **Hours**

BIO ENG 140 1

BIOLOGY 107 [BSCI] 4

CHEM 106 4

Creative & Professional Arts [ARTS] 3

MATH 172 4

Second Year

	First Term	Hours	
	BIO ENG 205	1	
	CHE 201	3	
	<u>Humanities [HUM]</u>	<u>3</u>	
	MATH 220	2	
	MATH 273	2	
	PHYSICS 201	4	
	Second Term	Hours	
	BIO ENG 210	2	
	CE 211	3	
	Humanities [HUM]	3	
	MATH 315	3	
	MATH 370 or 423	3	
	PHYSICS 202	4	
	Complete Writing Portfolio		
	Third Year		
	First Term	Hours	
	BIO ENG 321	3	
	BIO ENG 322 [M]	1	
	BIO ENG 350	3	
	CHE 310	3	
	E E 261	3	
	Second Term	Hours	
	BIO ENG 330	3	
	BIO ENG 340	4	
	Bioengineering elective ¹	3	
	Diversity [DIVR]	3	
	ECONS 101 [SSCI] or 102 [SSCI]	3	
	Fourth Year		
	First Term	Hours	
	BIO ENG 410[M]	3	
	BIO ENG 440	4	

	<p>Bioengineering <u>Technical</u> electives⁺² 6</p> <p>ENGLISH 402 <u>Communication [COMM] or</u> <u>Written Communication[WRTG]</u> 3</p> <p>Second Term Hours</p> <p>BIO ENG 411 3</p> <p>Bioengineering electives¹ <u>9</u>3</p> <p>Integrative Capstone [CAPS] 3</p> <p><u>Technical Electives²</u> <u>6</u></p> <hr/> <p>Footnotes</p> <p>⁺ <u>At least 7 hours must be 300–400–level, and must be approved by advisor prior to enrollment.</u></p> <p>¹ <u>6 credits of electives must have a BIO ENG subject, selected from the following: BIO ENG 425 or BIO ENG 481.</u></p> <p>² <u>12 credits of electives may be either BIO ENG courses from Footnote 1, or other relevant engineering or science courses from the following: BIO ENG 495, 499; BIOLOGY 106, 301, 315, 340, 352, 353, 494; CE 315, 463; CHE 301, 334, 475, 476; CHEM 345, 348; CPT S 121; E E 262; MBIOS 301, 303, 305, 306, 401/501, 413, 414, 426, 465; ME 116, 212, 216, 301, 303, 401, 472, 473; MSE 201, 302, 401, 402, 403, 406/506, 413; NEUROSCI 301, 302, 403, 425, 426, 430; PHYSICS 466.</u></p>	
<p>Chemical Engineering and Bioengineering Revise certification and graduation requirements for BS in Bioengineering – Pre-Med Option.</p>	<p>Bioengineering, Pre-Med Option(131<u>126</u> Hours)</p> <p>First Year</p> <p>First Term Hours</p> <p>CHEM 105 [PSCI] 4</p> <p>ENGLISH 101 [WRTG] 3</p> <p>ENGR 120 2</p> <p>HISTORY 105 [ROOT] 3</p> <p>MATH 171 [QUAN] 4</p> <p>Second Term Hours</p> <p>BIO ENG 140 1</p> <p>BIOLOGY 107 [BSCI] 4</p> <p>CHEM 106 4</p>	<p>8-14</p>

Creative & Professional Arts [ARTS]	3
MATH 172	4
Second Year	
First Term	Hours
BIO ENG 205	1
BIOLOGY 106	4
CHE 201	3
MATH 220	2
MATH 273	2
PHYSICS 201	4
Second Term	Hours
BIO ENG 210	2
CE 211	3
Humanities [HUM]	3
MATH 315	3
MATH 370 or 423	3
PHYSICS 202	4
Complete Writing Portfolio	
Third Year	
First Term	Hours
BIO ENG 321	3
BIO ENG 322 [M]	1
CHE 310	3
CHEM 345	4
E E 261	3
MBIOS 301	4
Second Term	Hours
BIO ENG 330	3
BIO ENG 340	4
CHEM 348	4
Humanities [HUM]	3
MBIOS 303	4

	<p>Fourth Year</p> <table border="0"> <thead> <tr> <th>First Term</th> <th>Hours</th> </tr> </thead> <tbody> <tr> <td>BIO ENG 350</td> <td>43</td> </tr> <tr> <td>BIO ENG 410 [M]</td> <td>3</td> </tr> <tr> <td>BIO ENG 440</td> <td>4</td> </tr> <tr> <td>Diversity [DIVR]</td> <td>3</td> </tr> <tr> <td>ENGLISH 402 <u>Communication [COMM] or Written Communication[WRTG]</u></td> <td>3</td> </tr> <tr> <td colspan="2">Second Term</td> </tr> <tr> <td></td> <td>Hours</td> </tr> <tr> <td>BIO ENG 411</td> <td>3</td> </tr> <tr> <td>Bioengineering Electives¹</td> <td>6</td> </tr> <tr> <td>ECONS 101 [SSCI] or 102 [SSCI]</td> <td>3</td> </tr> <tr> <td>Integrative Capstone [CAPS]</td> <td>3</td> </tr> </tbody> </table> <hr/> <p>Footnotes</p> <p>† Must be approved by advisor prior to enrollment in the class.</p> <p><u>¹ 6 credits of electives must have a BIO ENG subject, selected the following: BIO ENG 425 or BIO ENG 481.</u></p>	First Term	Hours	BIO ENG 350	4 3	BIO ENG 410 [M]	3	BIO ENG 440	4	Diversity [DIVR]	3	ENGLISH 402 <u>Communication [COMM] or Written Communication[WRTG]</u>	3	Second Term			Hours	BIO ENG 411	3	Bioengineering Electives ¹	6	ECONS 101 [SSCI] or 102 [SSCI]	3	Integrative Capstone [CAPS]	3	
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ECONS 101 [SSCI] or 102 [SSCI]	3																									
Integrative Capstone [CAPS]	3																									
<p>Politics, Philosophy, and Public Affairs Revise graduation requirements for BA in Philosophy – Pre-Law Option</p>	<p>Philosophy – Pre-Law Option(120 Hours) No course with a grade of D+ or less and no course taken pass/fail will be counted toward the major. The overall gpa for courses in the major must be at least a 2.00.</p> <table border="0"> <thead> <tr> <th>First Year</th> <th></th> </tr> <tr> <th>First Term</th> <th>Hours</th> </tr> </thead> <tbody> <tr> <td>ENGLISH 101 [WRTG]</td> <td>3</td> </tr> <tr> <td>HISTORY 105 [ROOT]</td> <td>3</td> </tr> <tr> <td>Humanities [HUM]</td> <td>3</td> </tr> <tr> <td>PHIL 260-101 [HUM] or 103 [HUM]</td> <td>3</td> </tr> <tr> <td>Electives</td> <td>36</td> </tr> <tr> <td colspan="2">Second Term</td> </tr> <tr> <td></td> <td>Hours</td> </tr> <tr> <td>Communication [COMM] or Written</td> <td>3</td> </tr> </tbody> </table>	First Year		First Term	Hours	ENGLISH 101 [WRTG]	3	HISTORY 105 [ROOT]	3	Humanities [HUM]	3	PHIL 260-101 [HUM] or 103 [HUM]	3	Electives	3 6	Second Term			Hours	Communication [COMM] or Written	3	<p>8-14</p>				
First Year																										
First Term	Hours																									
ENGLISH 101 [WRTG]	3																									
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Humanities [HUM]	3																									
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Electives	3 6																									
Second Term																										
	Hours																									
Communication [COMM] or Written	3																									

Communication [WRTG]	
PHIL 201 [QUAN]	3
Quantitative Reasoning [QUAN]	3 or 4
Social Sciences [SSCI]	3
Electives	<u>36</u>
Second Year	
First Term	Hours
Biological Sciences [BSCI] with lab or SCIENCE 101 [SCI]	4
Creative & Professional Arts [ARTS], Humanities [HUM], or Social Sciences [SSCI]	3
Foreign Language, if necessary, or Elective	4
PHIL 200	3
Electives	2
Second Term	Hours
Foreign Language, if necessary, or Elective	4
PHIL Elective	3
Physical Sciences [PSCI] with lab or SCIENCE 102 [SCI]	4
Electives	3
Complete Writing Portfolio	
Third Year	
First Term	Hours
Creative & Professional Arts [ARTS]	3
Diversity [DIVR]	3
PHIL 360 [HUM], 365 [HUM], or 370 <u>350, 442 [M], 443, 446, or 447¹</u>	3
POL S 300	3
300–400–level Electives	3
Second Term	Hours
ENGLISH 301 or PHIL 200	3
Integrative Capstone [CAPS]	3

	<p>PHIL 360, 365, 460 [M], 462 [M]-470, or 472¹ 39</p> <p>300–400–level Electives 63</p> <p>Fourth Year</p> <p>First Term Hours</p> <p>400–level [M] Course <u>PHIL 470</u> 3</p> <p>PHIL Electives 420, 425, 472 [M], or POL S 402¹ 63</p> <p>300–400–level Electives 69</p> <p>Second Term Hours</p> <p>PHIL Electives¹ 63</p> <p>300–400–level Electives 912</p> <hr/> <p>Footnotes</p> <p>[†] One PHIL elective must be [M] if two have not been taken.</p> <p>¹ <u>PHIL electives must include [M] courses sufficient to provide student with two, if these have not been taken in fulfilling other requirements in the major.</u></p>	
<p>Politics, Philosophy, and Public Affairs Change name and Revise graduation requirements for Traditional Option</p>	<p>Philosophy – Traditional <u>General</u> Option (120 Hours) No course with a grade of D+ or less and no course taken pass/fail will be counted toward the major. The overall gpa for courses in the major must be at least a 2.00.</p> <p>First Year</p> <p>First Term Hours</p> <p>ENGLISH 101 [WRTG] 3</p> <p>HISTORY 105 [ROOT] 3</p> <p>PHIL 101 [HUM] or 103 [HUM] 3</p> <p>Quantitative Reasoning [QUAN] 3 or 4</p> <p>Electives 36</p> <p>Second Term Hours</p> <p>Communication [COMM] or Written Communication [WRTG] 3</p> <p>Creative & Professional Arts [ARTS] 3</p>	<p>8-14</p>

PHIL 201 <u>[QUAN]</u>	3
Social Sciences [SSCI]	3
Electives	3
Second Year	
First Term	Hours
Biological Sciences [BSCI] with lab or SCIENCE 101 [SCI]	4
Creative & Professional Arts [ARTS], Humanities [HUM], or Social Sciences [SSCI]	3
Foreign Language, if necessary, or Elective	4
PHIL 320 <u>207, 280, 314 [M], 315 [M], or 407¹</u>	3
Electives	2
Second Term	Hours
Foreign Language, if necessary, or Elective	4
PHIL 321 <u>200 or 401</u>	3
Physical Sciences [PSCI] with lab or SCIENCE 102 [SCI]	4
Electives	3
Complete Writing Portfolio	
Third Year	
First Term	Hours
Diversity [DIVR]	3
PHIL 314 or 315	3
PHIL <u>320, 321, 322 or 420 421 (Must include 320 and /or 321)</u>	<u>36</u>
PHIL 446 or 447 <u>360, 365, 370, 460 [M], or 462 [M]¹</u>	3
Electives	3
Second Term	Hours
Integrative Capstone [CAPS]	3
PHIL <u>350, 442 [M] or 443, 446, or 447¹</u>	<u>36</u>
PHIL 460 [M] or 472 [M]	3

	<p>Electives 6</p> <p>Fourth Year</p> <p>First Term Hours</p> <p>400-level [M] Course 3</p> <p><u>PHIL 420, 425, 470, or 472 [M]¹</u> 3</p> <p>PHIL Electives¹ 63</p> <p>Electives 69</p> <p>Second Term Hours</p> <p>PHIL Electives¹ 3</p> <p>300-400-level Electives 12</p> <hr/> <p>Footnotes</p> <p>¹ <u>PHIL electives must include [M] courses sufficient to provide student with two, if these have not been taken in fulfilling other requirements in the major.</u></p>	
<p>Teaching and Learning Revise Specific subject area requirements for Designated World Languages French BA in Specific Subject Teacher Certificate Program.</p>	<p>SPECIFIC SUBJECT AREA REQUIREMENTS</p> <p>Designated World Languages French (40 hours): FRENCH 204, 306, 307, 308, or 408; two from FRENCH 120, 320, 420; one from FRENCH 310, 350, 361; FOR LANG 440, 541<u>441</u>; approved internship in French or study abroad in Francophone country at the advanced level.</p>	<p>8-14</p>
<p>Teaching and Learning Revise Specific subject area requirements for Designated World Languages Spanish in the BA in Specific Subject Teacher Certificate Program.</p>	<p>SPECIFIC SUBJECT AREA REQUIREMENTS</p> <p>Designated World Languages Spanish (40 hours): SPANISH 204, 306, 307, 308, 407, 408; one from FOR LANG 101, 110, 120, 130, 220; two from SPANISH 310, 311, 320, 321, 350, 351, 361; two from SPANISH 450, 451, 452, 453; FOR LANG 440, 541<u>441</u>.</p>	<p>8-14</p>