

Approved by Faculty Senate 5/7/09

**UNDERGRADUATE AND PROFESSIONAL MAJOR CHANGE BULLETIN NO. 8  
Spring 2009**

**---REQUIREMENTS---**

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 curricula are printed in their entirety under the headings Current and Proposed, respectively. The column to the far right indicates the date each change becomes effective.

Heading	Current	Proposed	Effective Date
<p>Chemical &amp; Bioengineering, revise certification requirements in Bioengineering</p>	<p><u>Certification</u> Students may apply for certification into the BS Bioengineering degree program after completion of the following courses: Math 171, 172; Chem 105, 106; Phys 201; ChE 201; BE 210 or 320; Biol 107. Students must be certified in bioengineering before being allowed to enroll in other 300 level or 400 level required BE courses.</p>	<p><u>Criteria for Certification – Bioengineering Program</u>  <u>1) In September 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.</u>  <u>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, Biol 107, Phys 201, ChE 201, Be 210</u>  <u>3) To be certified, each student must meet the following minimum standards:</u>  <u>a. 2.0 cumulative GPA</u>  <u>b. A “C” grade or better in each of the courses listed in 2) above</u>  <u>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.</u>  <u>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</u></p>	<p>8-09</p>

		<p>have already been completed; and (c) the <u>gpa earned during the previous semester.</u></p> <p><u>6) Students who have completed all the courses listed in 2) above, but who are not certified will be 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.</u></p> <p><u>7) Students who are deficient under the University’s Educational Policies and Procedures are subject to decertification.</u></p> <p><u>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.</u></p> <p><u>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.</u></p>	
Chemical & Bioengineering,	Certification Specific requirements for certification in	<b><u>Criteria for Certification – Chemical Engineering Program</u></b>	8-09

<p>revise certification requirements in Chemical Engineering</p>	<p>chemical engineering can be obtained from the school although eligibility usually occurs at the middle of the sophomore year. Criteria for certification include overall gpa, grades earned in mathematics and physical science courses, and performance in the Ch E 201 course. A certified student earning a gpa of less than 2.0 for any two semesters is subject to decertification.</p>	<p><u>1) In September 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 chemical engineering program.</u></p> <p><u>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, Math 273; Chem 105, Chem 106, Chem 345, Phys 201, ChE 201</u></p> <p><u>3) To be certified, each student must meet the following minimum standards:</u></p> <p><u>a. 2.0 cumulative GPA</u></p> <p><u>b. A “C” grade or better in each of the courses listed in 2) above</u></p> <p><u>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.</u></p> <p><u>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.</u></p> <p><u>6) Students who have completed all the courses listed in 2) above, but who are not certified will be 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</u></p>	
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Pharmacy, revise graduation requirements	<table border="0"> <tr> <td>First Year</td> <td></td> </tr> <tr> <td>First Term</td> <td>Hours</td> </tr> <tr> <td>PharP 500</td> <td>2</td> </tr> <tr> <td>PharP 510</td> <td>1</td> </tr> <tr> <td>PharP 521</td> <td>1</td> </tr> <tr> <td>PharS 500</td> <td>4</td> </tr> <tr> <td>PharS 510</td> <td>1</td> </tr> <tr> <td>PharS 521</td> <td>3</td> </tr> <tr> <td>PharS 551</td> <td>3</td> </tr> <tr> <td>Second Term</td> <td>Hours</td> </tr> <tr> <td><del>PharP 501</del></td> <td>4</td> </tr> <tr> <td>PharP 530</td> <td>2</td> </tr> <tr> <td>PharP 543</td> <td>4</td> </tr> <tr> <td>PharS 522</td> <td>2</td> </tr> <tr> <td>PharS 523</td> <td>1</td> </tr> <tr> <td>PharS 552</td> <td>4</td> </tr> <tr> <td>Elective1</td> <td>1</td> </tr> <tr> <td>Second Year</td> <td></td> </tr> </table>	First Year		First Term	Hours	PharP 500	2	PharP 510	1	PharP 521	1	PharS 500	4	PharS 510	1	PharS 521	3	PharS 551	3	Second Term	Hours	<del>PharP 501</del>	4	PharP 530	2	PharP 543	4	PharS 522	2	PharS 523	1	PharS 552	4	Elective1	1	Second Year		<table border="0"> <tr> <td>First Year</td> <td></td> </tr> <tr> <td>First Term</td> <td>Hours</td> </tr> <tr> <td>PharP 500</td> <td>2</td> </tr> <tr> <td><u>PharP 501</u></td> <td><u>1</u></td> </tr> <tr> <td>PharP 510</td> <td>1</td> </tr> <tr> <td>PharP 521</td> <td>1</td> </tr> <tr> <td>PharS 500</td> <td>4</td> </tr> <tr> <td>PharS 510</td> <td>1</td> </tr> <tr> <td>PharS 521</td> <td>3</td> </tr> <tr> <td>PharS 551</td> <td>3</td> </tr> <tr> <td>Second Term</td> <td>Hours</td> </tr> <tr> <td>PharP 501</td> <td>1</td> </tr> <tr> <td>PharP 530</td> <td>2</td> </tr> <tr> <td>PharP 543</td> <td>4</td> </tr> <tr> <td>PharS 522</td> <td>2</td> </tr> <tr> <td>PharS 523</td> <td>1</td> </tr> <tr> <td>PharS 552</td> <td>4</td> </tr> <tr> <td>Elective1</td> <td>1</td> </tr> </table>	First Year		First Term	Hours	PharP 500	2	<u>PharP 501</u>	<u>1</u>	PharP 510	1	PharP 521	1	PharS 500	4	PharS 510	1	PharS 521	3	PharS 551	3	Second Term	Hours	PharP 501	1	PharP 530	2	PharP 543	4	PharS 522	2	PharS 523	1	PharS 552	4	Elective1	1	8-09
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First Term	Hours	Second Year	
PharP 502	1	First Term	Hours
PharP 540	3	PharP 502	1
PharP 544	4	PharP 540	3
PharS 530	3	PharP 544	4
PharS 553	4	PharS 530	3
Elective <sup>1</sup>	1	PharS 553	4
Second Term	Hours	Elective <sup>1</sup>	1
PharP 503	1	Second Term	Hours
<del>PharP 524</del>	<del>1</del>	PharP 503	1
PharP 526 <sup>2</sup>	4	PharP 524	1
PharP 545	4	PharP 526 <sup>2</sup>	4
PharP 570	2	PharP 545	4
PharP 580	3	PharP 570	2
PharS 554	4	PharP 580	3
Third Year		PharS 554	4
First Term	Hours	Third Year	
PharP 504	1	First Term	Hours
PharP 546	3	PharP 504	1
PharP 550	3	PharP 546	3
PharP 556	2	PharP 550	3
PharP 560	3	PharP 556	2
PharP 571	2	PharP 560	3
Elective1	1	PharP 571	2
Second Term	Hours	Elective1	1
PharP 505	1	Second Term	Hours
PharP 520	4	PharP 505	1
PharP 527 <sup>2</sup>	4	PharP 520	4
PharP 577	2	<u>PharP 524</u>	<u>1</u>
PharP 578	3	PharP 527 <sup>2</sup>	4
PharP 579	3	PharP 577	2
PharP 585	1	PharP 578	3
Elective1	1	PharP 579	3
Fourth Year		PharP 585	1
First Term	Hours	Elective1	1
Advanced Pharmacy Practice Experiences (APPE) <sup>3</sup>	20	Fourth Year	
Second Term	Hours	First Term	Hours
Advanced Pharmacy Practice Experiences (APPE) <sup>3</sup>	15	Advanced Pharmacy Practice Experiences (APPE) <sup>3</sup>	20
Footnotes		Second Term	Hours
1 Elective Courses: four electives are		Advanced Pharmacy Practice Experiences (APPE) <sup>3</sup>	15

	<p>mandatory (one credit each) throughout the first three years of the curriculum. Students are required to take two elective courses during the first two years of the program and two elective courses during the third year of the program. Select from: PharP 555, 590, 591, 592, 593, 594, 595 and 599.</p> <p>2 PharP 526 (IPPE) and PharP 527 ( EPPE) pharmacy practice experiences that occur over more than one semester.</p> <p>3 Advanced Pharmacy Practice Experiences (APPE) courses are: PharP 561, 562, 563, 564, 565, 566, 567.</p> <p>The fourth professional year begins in May immediately following the end of the spring semester of the third professional year. Students must complete 5 credits of each advanced practice experience listed for a total of 42 weeks during the fourth professional year of the program.</p>	<p>Footnotes</p> <p>1 Elective Courses: four electives are mandatory (one credit each) throughout the first three years of the curriculum. Students are required to take two elective courses during the first two years of the program and two elective courses during the third year of the program. Select from: PharP 555, 590, 591, 592, 593, 594, 595 and 599.</p> <p>2 PharP 526 (IPPE) and PharP 527 ( EPPE) pharmacy practice experiences that occur over more than one semester.</p> <p>3 Advanced Pharmacy Practice Experiences (APPE) courses are: PharP 561, 562, 563, 564, 565, 566, 567.</p> <p>The fourth professional year begins in May immediately following the end of the spring semester of the third professional year. Students must complete 5 credits of each advanced practice experience listed for a total of 42 weeks during the fourth professional year of the program.</p>	
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