

UNDERGRADUATE AND PROFESSIONAL MAJOR CHANGE BULLETIN NO. 12
Addendum No. 1
Spring 2012

Faculty Senate Approved April 12, 2012

---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 changes are underlined. Deletions are crossed out. The column to the far right indicates the date each change becomes effective.

| Dept | Proposed | Effective Date |
|--|--|-----------------------|
| Chemical and Bioengineering, revise certification requirements in Bioengineering | <p>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 September <u>March</u> 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, Biol 107, Phys 201, ChE 201, B E 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. <u>Students must be in good academic standing (semester gpa 2.00 or higher) at the time they are being considered for certification.</u></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</p> | 8-12 |

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| | <p>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.</p> <p>7) Students who are deficient under the University's Educational Policies and Procedures are subject to decertification.</p> <p>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.</p> <p>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.</p> <p><u>8) Students are allowed a maximum total of one repeat among all core courses.</u></p> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Chemical and Bioengineering, revise graduation requirements in Bioengineering (General option)</p> | <table border="0"> <tr> <td colspan="2">First Year</td> </tr> <tr> <td>First Term</td> <td>Hours</td> </tr> <tr> <td>Chem 105 [P] (GER)</td> <td>4</td> </tr> <tr> <td>Engl 101 [W] (GER)</td> <td>3</td> </tr> <tr> <td>Engr 120</td> <td>2</td> </tr> <tr> <td>GenEd 110 [A] (GER)</td> <td>3</td> </tr> <tr> <td>Math 171 [N] (GER)</td> <td>4</td> </tr> <tr> <td>Second Term</td> <td>Hours</td> </tr> <tr> <td>B E 140</td> <td>1</td> </tr> <tr> <td>Biol 107 [B] (GER)</td> <td>4</td> </tr> <tr> <td>Chem 106 [P] (GER)</td> <td>4</td> </tr> <tr> <td>GenEd 111 [A] (GER)</td> <td>3</td> </tr> <tr> <td>Math 172</td> <td>4</td> </tr> </table> | First Year | | First Term | Hours | Chem 105 [P] (GER) | 4 | Engl 101 [W] (GER) | 3 | Engr 120 | 2 | GenEd 110 [A] (GER) | 3 | Math 171 [N] (GER) | 4 | Second Term | Hours | B E 140 | 1 | Biol 107 [B] (GER) | 4 | Chem 106 [P] (GER) | 4 | GenEd 111 [A] (GER) | 3 | Math 172 | 4 | <p>8-12</p> |
| First Year | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| First Term | Hours | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chem 105 [P] (GER) | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Engl 101 [W] (GER) | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Engr 120 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GenEd 110 [A] (GER) | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Math 171 [N] (GER) | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Second Term | Hours | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B E 140 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Biol 107 [B] (GER) | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chem 106 [P] (GER) | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GenEd 111 [A] (GER) | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Math 172 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Second Year

| First Term | Hours |
|--|-------|
| B E 205 | 1 |
| Ch E 201 | 3 |
| Chem 345 | 4 |
| Math 220 | 2 |
| Math 273 | 2 |
| Phys 201 [P] (GER) | 4 |
| Second Term | Hours |
| Arts & Humanities [H,G] (GER) ¹ | 3 |
| B E 210 | 2 |
| C E 211 | 3 |
| Math 315 | 3 |
| Math 370 or 423 | 3 |
| Phys 202 [P] (GER) | 4 |
| Complete Writing Portfolio | |

Third Year

| First Term | Hours |
|--------------------------------------|-------|
| B E 321 | 3 |
| B E 322 [M] | 1 |
| B E 350 | 3 |
| Ch E 310 | 3 |
| E E 261 | 3 |
| MBioS 303 | 4 |
| Second Term | Hours |
| B E 330 | 3 |
| B E 340 | 4 |
| Bioengineering elective ² | 3 |
| EconS 101 [S] or 102 [S] (GER) | 3 |
| Intercultural Studies [I,G,K] (GER) | 3 |

Fourth Year

| First Term | Hours |
|---------------------------------------|----------|
| B E 410 | 3 |
| B E 440 | 4 |
| Bioengineering electives ² | 6 |
| Engl 402 [W] (GER) | 3 |
| Second Term | Hours |
| B E 411 [T] (GER) | 3 |
| Bioengineering electives ² | 9 |
| <u>Elective</u> | <u>1</u> |

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| | <p>Footnotes</p> <p>¹ A total of 18 credits of arts and humanities, social sciences, intercultural studies, and world civilization are required. For engineering majors, the Tier III requirement must be satisfied with a course in the arts and humanities or social sciences. Tier II courses should be selected so that any prerequisites for the Tier III course are satisfied.</p> <p>² Must be approved by advisor prior to enrollment in the class.</p> | |
| <p>Chemical Engineering and Bioengineering, revise certification requirements in Chemical Engineering</p> | <p>Criteria for Certification – Chemical Engineering Program</p> <p>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.</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, Math 273; Chem 105, Chem 106, Chem 345, Phys 201, Ch E 201.</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. Completed at least one semester of coursework at WSU.</p> <p>d. <u>Be in good academic standing (semester gpa 2.00 or higher) at the time they are being considered for certification.</u></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>8-12</p> |

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| | <p>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.</p> <p>7) Students who are deficient under the University's Educational Policies and Procedures are subject to decertification.</p> <p>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.</p> <p>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.</p> <p><u>8) Students are allowed a maximum total of one repeat among all core courses.</u></p> | |
| <p>Material Science and Engineering, revise certification requirements</p> | <p>Certification into the Bachelor of Science program in Materials Science and Engineering is limited to 21 students per entering class. Students who have completed at least 30 semester hours of graded course work with an overall minimum WSU 2.0 gpa and who have completed the following courses with a minimum grade of 2.5 in each course: Chem 105, Chem 106, Math 171, 172, Phys 201, and CE 211 or their equivalents are eligible. When it becomes necessary to limit enrollment, the overall gpa as well as the gpa for the prerequisite courses listed above, will be important factors. <u>Students need to submit an application for certification to the Undergraduate Students Services office, Sloan 205 or electronically to newcoug@mme.wsu.edu. The application deadline is the Monday after finals week in December and May for the fall and the spring semesters respectively. For additional details, contact the school's office of student</u></p> | <p>8-12</p> |

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| | services. | |
| Teaching & Learning, revise graduation requirements in Elementary Education | <p>Candidates for the undergraduate elementary education teacher certificate program will satisfy degree requirements of the Department of Teaching and Learning. The degree will be the Bachelor of Arts. The student should include the following course work within GER selections to satisfy prerequisite, degree, and admission to teacher preparation requirements. This course schedule does not include an add-on endorsement.</p> <p>During the freshman year, students must qualify to enroll in Math 251, pass the Music 388 competency exam or take Music 153, and begin the University Writing Portfolio, as students must receive a pass before taking T & L TCH_LRN 306.</p> | 8-12 |
| | <p>First Year</p> <p>First Term Hours</p> <p>Biological Sciences [B] (GER)¹ 4</p> <p><u>SCIENCE 101 [Q] or BIOLOGY 106 [B]¹</u> <u>4</u></p> <p>ComSt 102 [C] or H D 205 [C] (GER) 3</p> <p><u>Communication Proficiency [C](GER)</u> <u>3</u></p> <p>Engl 101 [W] (GER) 3</p> <p>H D 101 [S] (GER) 3</p> <p>Math prereq, if necessary, or Elective 3</p> <p>Second Term Hours</p> <p>GenEd 110 [A] (GER) 3</p> <p>Math 251 3</p> <p>Mus 153 [H] (GER), if necessary 3</p> <p>Psych 105 [S] (GER) 3</p> <p><u>Social Science [S] (GER)</u> <u>3</u></p> <p>Second Year</p> <p>First Term Hours</p> <p>Am St 216 [S,D] or Hist 150 [S,D] (GER) 3</p> <p>Engl 201 [W] (GER) 3</p> <p>GenEd 111 [A] (GER) 3</p> <p>Physical Sciences [P] (GER)² 3 or 4</p> <p><u>SCIENCE 102 [Q] or GEOLOGY 101 [P]</u> <u>(GER)¹</u> <u>3 or 4</u></p> <p>TCH_LRN 301 3</p> <p>Complete WEST-B</p> <p>Second Term Hours</p> <p>Intercultural Studies [I,G,K] (GER) 3</p> | |

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| Math 252 [N] (GER) | 3 |
| Science Elective [B,P,Q] (GER) | 3 or 4 |
| Tier III Course [T] (GER) ³⁻² | 3 |
| Certify Major | |
| Complete Writing Portfolio | |
| Third Year | |
| First Term | Hours |
| EdPsy 401 | 3 |
| TCH_LRN 307 | 2 |
| TCH_LRN 321 | 3 |
| TCH_LRN 402 | 1 |
| TCH_LRN 445 | 2 |
| TCH_LRN 483 | 3 |
| Second Term | Hours |
| Mus 388 | 2 |
| <u>TCH_LRN 304</u> | <u>3</u> |
| TCH_LRN 310 [M] | 2 |
| TCH_LRN 322 | 3 |
| TCH_LRN 371 | 3 |
| TCH_LRN 390 | 3 |
| TCH_LRN 403 | 2 |
| TCH_LRN 405 | 1 |
| Fourth Year | |
| First Term | Hours |
| Sp Ed 420/421 | 2 or 3 |
| TCH_LRN 330 | 2 <u>3</u> |
| TCH_LRN 352 | 3 |
| TCH_LRN 385 | 3 |
| TCH_LRN 413 | 2 |
| TCH_LRN 490 | 2 |
| Elective | 2 |
| Second Term | Hours |
| TCH_LRN 415 | 16 |

Footnotes

1 ~~Biol 102 recommended.~~ If both SCIENCE 101 and 102 are taken, students satisfy [B], [P] and laboratory requirement.

2 ~~Geol 101 recommended.~~ Am St 473 recommended.

3 ~~Am St 473 recommended.~~

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| Teaching & Learning, revise add-on endorsement for English Language Learners | English Language Learners [undergraduate level] (18 hours): TCH_LRN 330, 333, 339, 401, 414, and 409 (under development) or 509, or equivalent. one from T&L 504 (highly recommended), 512, 516, 537, 574, 580. | 8-12 |
| Teaching & Learning, revise add-on endorsement for Middle Level Science | Middle Level Science (17 hours): Chem 101, Biol 107, Phys 150, Sci 430, TCH_LRN 513 304. | 8-12 |