

**UNDERGRADUATE AND PROFESSIONAL MAJOR CHANGE BULLETIN NO. 10, ADDENDUM 1**

**Spring 2016**

**Faculty Senate Approved April 14, 2016**

**--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. If a description, semester, or footnote has been left off a schedule of studies presentation, then no changes were made to that portion. The column to the far right indicates the date each change becomes effective.

| <b>Dept</b>   | <b>Proposed</b>   | <b>Effective Date</b> |              |                                     |   |                    |   |                 |   |                    |
|---|---|-----------------------|--------------|-------------------------------------|---|--------------------|---|-----------------|---|--------------------|
| <p><b>Civil and Environmental Engineering</b><br/>Revise graduation requirements for Bachelor of Science in Civil Engineering</p> | <p><b>Civil Engineering (127 Hours)</b></p> <hr/> <p><b>Footnotes</b></p> <p><sup>1</sup> Classes that must be completed prior to certification.</p> <p><sup>2</sup> CHEM 106 strongly recommended for students emphasizing environmental engineering; GEOLOGY 102 strongly recommended for students emphasizing structural, geotechnical, or infrastructure engineering.</p> <p><sup>3</sup> CE Breadth Electives: Choose three courses from CE 322, 330, 341 and 351 and one other upper-division CE elective not including 495, 499 or any course used to fulfill a major requirement.</p> <p><sup>4</sup> <u>CE Electives and Breadth Electives: One course must be chosen from CE 341, 401, 403, 405, 433, 436, 450, 472, 473, or 476, which are designated as having a sustainability component.</u></p> <p><sup>45</sup> CE Elective courses: The 18-credit hours for elective courses must be distributed such that at least three courses, not including the lab, are designated as having design emphasis. Those design courses must be selected such that at least one is chosen from two different areas of study, which include Environmental (CE <u>401, 402, 403, 415, 418, 419, and 442</u>); Geotechnical (CE <u>400, 425, and 435</u>); Hydraulics (CE 416,450, <u>451, 456, 460, and 475</u>); Structural (CE 414, <u>430, 431, 433, 434, and 436</u>); Sustainability (CE 405 and 456); and Transportation/Pavement (CE <u>400, 473, and 476</u>); Other approved courses include: CE 400, 401, 402, 403, 405, 414, 415, 416, 418, 419, 425, 430, 431, 433, 434, 435, 436, 442, 450, 451, 456, 460, 473, 475, 476, 498, 502, 503, 505, 515, 518, 519, 525, 534, 551, 560, CST M 356, 462, 466 or as approved by advisor.</p> <p><sup>56</sup> CE Laboratory Elective: Choose one from CE 400, 414, 415, or 416.</p> <p><sup>62</sup> Course to be taken in final semester. With permission of advisor, student may substitute ENGR 421 or 431 for CE 465.</p> | <p><b>8-16</b></p>    |              |                                     |   |                    |   |                 |   |                    |
| <p><b>Mathematics and Statistics</b><br/>New option in Bachelor of Science in Mathematics - Statistics</p>                        | <p><b>Mathematics – Statistics Option (120 Hours)</b></p> <p><b>First Year</b></p> <table border="0"> <thead> <tr> <th data-bbox="553 1724 1295 1759"><i>First Term</i></th> <th data-bbox="1295 1724 1403 1759"><i>Hours</i></th> </tr> </thead> <tbody> <tr> <td data-bbox="553 1766 1295 1801">Biological Sciences [BSCI] with lab</td> <td data-bbox="1295 1766 1403 1801">4</td> </tr> <tr> <td data-bbox="553 1808 1295 1843">ENGLISH 101 [WRTG]</td> <td data-bbox="1295 1808 1403 1843">3</td> </tr> <tr> <td data-bbox="553 1850 1295 1885">MATH 171 [QUAN]</td> <td data-bbox="1295 1850 1403 1885">4</td> </tr> </tbody> </table>  | <i>First Term</i>     | <i>Hours</i> | Biological Sciences [BSCI] with lab | 4 | ENGLISH 101 [WRTG] | 3 | MATH 171 [QUAN] | 4 | <p><b>8-16</b></p> |
| <i>First Term</i>   | <i>Hours</i>  |                       |              |                                     |   |                    |   |                 |   |                    |
| Biological Sciences [BSCI] with lab   | 4   |                       |              |                                     |   |                    |   |                 |   |                    |
| ENGLISH 101 [WRTG]  | 3   |                       |              |                                     |   |                    |   |                 |   |                    |
| MATH 171 [QUAN]   | 4   |                       |              |                                     |   |                    |   |                 |   |                    |

|   |                     |
|---|---------------------|
| Social Sciences [SSCI]  | 3                   |
| <b><i>Second Term</i></b>   | <b><i>Hours</i></b> |
| CPT S 121   | 4                   |
| Creative & Professional Arts [ARTS]   | 3                   |
| MATH 172 or 182   | 4                   |
| MATH 220 or 230   | 2 - 3               |
| HISTORY 105 [ROOT]  | 3                   |
| <b>Second Year</b>  |                     |
| <b><i>First Term</i></b>  | <b><i>Hours</i></b> |
| Humanities [HUM]  | 3                   |
| MATH 273 or 283   | 2 - 3               |
| PHYSICS 201 [PSCI]  | 4                   |
| STAT 360  | 3                   |
| Electives   | 3                   |
| <b><i>Second Term</i></b>   | <b><i>Hours</i></b> |
| Creative & Professional Arts [ARTS], Humanities [HUM], or Social Sciences [SSCI] <sup>1</sup> | 3                   |
| Diversity [DIVR]  | 3                   |
| MATH 301  | 3                   |
| STAT 412 or 423   | 3                   |
| Electives   | 3                   |
| Complete Writing Portfolio  |                     |
| <b>Third Year</b>   |                     |
| <b><i>First Term</i></b>  | <b><i>Hours</i></b> |
| MATH 300 [M]  | 3                   |
| MATH 420  | 3                   |
| STAT 436  | 3                   |
| Foreign Language, if needed, and/or Electives   | 6                   |
| <b><i>Second Term</i></b>   | <b><i>Hours</i></b> |
| ENGLISH 402 [WRTG] or Communication [COMM] or Written Communication [WRTG]                    | 3                   |
| STAT 419  | 3                   |
| STAT Option Course <sup>1</sup>   | 3                   |
| Foreign Language, if needed, and/or Electives   | 6                   |
| <b>Fourth Year</b>  |                     |
| <b><i>First Term</i></b>  | <b><i>Hours</i></b> |
| MATH 401 [M]  | 3                   |
| MATH 416  | 3                   |
| STAT 443  | 3                   |

|  |   |                    |
|--|---|--------------------|
|  | <p>STAT Option Course<sup>1</sup> 3<br/> Electives 3<br/> <b>Second Term</b> <i>Hours</i><br/> MATH 464 [CAPS] 3<br/> STAT 456 3<br/> STAT Option Course<sup>1</sup> 3<br/> Electives 6</p> <hr/> <p><b>Footnotes</b><br/> <sup>1</sup> Statistics Option (9 credits) Courses must be selected from STAT 380, 410, 422, 446, 447</p>  |                    |
| <p><b>Mechanical and Materials Engineering</b><br/> Revise graduation requirements for Bachelor of Science in Mechanical Engineering</p> | <p><b>Mechanical Engineering (125 Hours)</b></p> <p><b>Third Year</b></p> <p><i>First Term</i> <i>Hours</i><br/> E E 304 or 261 2 or 3<br/> MATH/STAT 370 3<br/> ME 301 3<br/> ME 303 3<br/> ME 313 3<br/> MSE 201 3</p> <p><i>Second Term</i> <i>Hours</i><br/> <u>ENGLISH 402 [WRTG]</u> 3<br/> <del>Humanities [HUM]</del> 3<br/> ME 304 3<br/> ME 306 2<br/> ME 310 2<br/> ME 311 1<br/> ME 316 <del>[M]</del> 3<br/> ME 348 3</p> <p><b>Fourth Year</b></p> <p><i>First Term</i> <i>Hours</i><br/> Diversity [DIVR] 3<br/> ME 401 3<br/> ME 405 3<br/> <del>ME 414</del> 3<br/> <u>ME 415 [M]</u> 3<br/> Technical Elective<sup>1</sup> 3</p> <p><i>Second Term</i> <i>Hours</i></p> | <p><b>8-16</b></p> |

|   |          |
|---|----------|
| ENGLISH 402 [WRTG] [M]                    | 3        |
| <u>Humanities [HUM]</u>                   | <u>3</u> |
| ME 406 [M]                                | 3        |
| ME 416 [CAPS]                             | 3        |
| Technical Elective <sup>1</sup>           | 3        |
| Complete Fundamentals of Engineering Exam |          |

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**Footnotes**

<sup>1</sup> Technical Elective: Any 400-500-level ME or MSE course not listed as a major requirement (MSE 440 excluded).