

SOUTH DAKOTA BOARD OF REGENTS

ACADEMIC AFFAIRS FORMS

Substantive Program Modification Form

| UN | IVERSITY: | SDSU | | | | | | | |
|---|---|---|--------|---------|------------------|----------------------|--|--|--|
| CU | RRENT PROGRAM TITLE: | Agricultural, Biosystems & Mechanical Engineering | | | | | | | |
| | | (Ph.D.) | | | | | | | |
| CII | P CODE: | 14.0301 | | | | | | | |
| UN | IVERSITY DEPARTMENT: | Agricultural & Biosystems Engineering | | | | | | | |
| | IVERSITY DIVISION: | Graduate School | | | | | | | |
| | versity Approval | | | | | | | | |
| | he Board of Regents and the Execu | | | | | | | | |
| | ieve it to be accurate, and that it h | as been eva | luated | d and d | approved as pr | ovided by university | | | |
| polic | cy. | | | | | | | | |
| | Dennis D. Hed | αa | | | | 4/27/2019 | | | |
| | Vice President of Acaden | | | | | Date | | | |
| President of Academic Arrans of President of the University | | | | | | | | | |
| | resident of the on | iversity | | | | | | | |
| 1 7 | F1 · 1·6· (· 11 1 | • | | | | | | | |
| | This modification addresses a char | _ | | T-4- | 1 1:4 6 | | | | |
| | Total credits required within the | - | | | | portive course work | | | |
| \boxtimes | Total credits of elective course v | vork | | | | ed for program | | | |
| \boxtimes | Program name | | | | ting specializat | | | | |
| | CIP Code | | | Othe | er (explain belo | ow) | | | |
| 2. | Effective date of change: 2020-20 | 21 Academ | ic Yea | ır | | | | | |
| 3. | Program Degree Level: Associate | □ Bache | elor's | | Master's □ | Doctoral ⊠ | | | |
| 4. | Category: Certificate □ Speciali | ization \square | Mino | or 🗆 | Major ⊠ | | | | |
| 5. | f a name change is proposed, the change will occur: | | | | | | | | |
| | ☐ On the effective date for all stude | ents | | | | | | | |
| | ☑ On the effective date for students new to the program (enrolled students will graduate from | | | | | | | | |
| | | | 1 0 | . (- | | 6 | | | |

existing program)
Proposed new name: Agricultural & Biosystems Engineering

6. Primary Aspects of the Modification:

Existing Curriculum (highlight changes)

| Pref. | Num. | Title | Cr. Hrs. | Pref. | Num. | Title | Cr. Hrs. |
|---|------|---|----------|---|-------------------|---|--------------|
| ABE | 763 | Instrumentation | 3 | ABE | 763 | Instrumentation | 3 |
| ABME | 790 | Seminar | 1 | ABE | 790 | Seminar | 1 |
| ABME | 792 | Topics | 3 | ABME | <mark>792</mark> | Topics | 3 |
| ABME | 898D | Dissertation | 40-60 | ABE | 898D | Dissertation | 40-60 |
| GSR | 601 | Research Regulations | 1 | GSR | 601 | Research Regulations | 1 |
| ME | 735 | Modeling and Simulation | 3 | ME. | 735 | Modeling and Simulation | 3 |
| ME | 735L | Modeling and Simulation Lab | 0 | ME | <mark>735L</mark> | Modeling and Simulation Lab | 0 |
| STAT | 541 | Statistical Methods II | 3 | STAT | 541 | Statistical Methods II | 3 |
| | | Electives (Selected by the individual with the committee) | 6-16 | | | Electives (Selected by the individual with the committee) | 15-25 |
| Total number of hours required for degree | | | 60 | Total number of hours required for degree | | | |
| | | | 90 | | | • | 90 |

7. Explanation of the Change:

The Ph.D. in Agricultural, Biosystems, and Mechanical Engineering program as currently configured is a highly unusual format with a title that is not recognized in the participating disciplines. Qualified students with interest in pursuing research-based careers having backgrounds in Agricultural and Biosystems Engineering or Mechanical Engineering seek programs with names that reflect their specific disciplines. The Ph.D. in Agricultural, Biosystems, and Mechanical Engineering naming convention has hampered recruiting efforts and puts SDSU at a competitive disadvantage with its peers, not only in recruiting students and faculty, but also in competing for external funding. SDSU has requested authorization to offer a Ph.D. in Mechanical Engineering. This modification will update the Agricultural, Biosystems, and Mechanical Engineering program name to Agricultural and Biosystems Engineering.

The revisions to the Ph.D. in Agricultural, Biosystems, and Mechanical Engineering program are contingent upon approval of the Ph.D. in Mechanical Engineering.