SOUTH DAKOTA BOARD OF REGENTS
ACADEMIC AFFAIRS FORMS

New Course Request

USD/SDSM&T	**Biomedical Engineering/Nanoscience & Nanoengineering**
Institution	**Division/Department**

USD 9/10/2018 *Elizabeth M. Freeburg* SDSM&T Senate 10/11/18

Institutional Approval Signature **Date**

Section 1. Course Title and Description

Prefix & No.	Course Title	Credits
BME 465	Biomedical Engineering Senior Design II	3

Course Description

A continuation of the Biomedical Engineering design sequence. Students will provide oral project updates, prepare a final technical design report, and participate in a Design Fair, including preparation of appropriate display material for the design fair.

Pre-requisites or Co-requisites (add lines as needed)

Prefix & No.	Course Title	Pre-Req/Co-Req?
BME 464	Senior Design I	Pre-Req

Registration Restrictions N/A

Section 2. Review of Course

2.1. Was the course first offered as an experimental course?

☐ Yes *(if yes, provide the course information below)* ☒ No

2.2. Will this be a unique or common course (*place an "X" in the appropriate box*)?

☒ **Common Course** *Indicate universities that are proposing this common course:*

☐ BHSU ☐ DSU ☐ NSU ☒ SDSMT ☐ SDSU ☒ USD

Section 3. Other Course Information

3.1. Are there instructional staffing impacts?

☒ **No**. Schedule Management, explain: Use available FTE.

3.2. Existing program(s) in which course will be offered: Biomedical Engineering, B.S.

3.3. Proposed instructional method by university: J-Design/Research

3.4. Proposed delivery method by university: 030 Blended/Hybrid

3.5. Term change will be effective: Fall 2019

3.6. Can students repeat the course for additional credit?

☐ Yes, total credit limit: _____ ☒ No

3.7. Will grade for this course be limited to S/U (pass/fail)?

☐ Yes ☒ No

3.8. Will section enrollment be capped?

☒ Yes, max per section: 25 ☐ No

3.9. Will this course equate (i.e., be considered the same course for degree completion) with any other unique or common courses in the common course system database in Colleague and the Course Inventory Report?

☐ Yes ☒ No

3.10. Is this prefix approved for your university?

☒ Yes ☐ No

Section 4. Department and Course Codes (Completed by University Academic Affairs)

4.1. University Department Code: UBME/MNANO

4.2. Proposed CIP Code: 14.0501

Is this a new CIP code for the university? ☐ Yes ☒ No

NEW COURSE REQUEST
Supporting Justification for On-Campus Review

Request Originator	**Signature**	Click here to enter a date. **Date**
Department Chair	**Signature**	Click here to enter a date. **Date**
School/College Dean	**Signature**	Click here to enter a date. **Date**

1. Provide specific reasons for the proposal of this course and explain how the changes enhance the curriculum.
   This course is part II of the capstone design course in the Biomedical Engineering Department. Students will work in teams to solve biomedical problems through research, design, and produce a prototype.

2. Note whether this course is: ☒ Required ☐ Elective

3. In addition to the major/program in which this course is offered, what other majors/programs will be affected by this course? None.

4. If this will be a dual listed course, indicate how the distinction between the two levels will be made. Not Applicable.

5. Desired section size 25

6. Provide qualifications of faculty who will teach this course. List name(s), rank(s), and degree(s).
   Timothy Brenza, Assistant Professor, PhD
   Etienne Gnimpieba, Research Assistant Professor, PhD

7. Note whether adequate facilities are available and list any special equipment needed for the course. Adequate Facilities are available.

8. Note whether adequate library and media support are available for the course.
   Adequate library and media support are available.

9. Will the new course duplicate courses currently being offered on this campus?
   ☐ Yes ☒ No

10. If this course may be offered for variable credit, explain how the amount of credit at each offering is to be determined. N/A

11. Add any additional comments that will aid in the evaluation of this request.
    This course brings together many concepts introduced in the undergraduate curriculum. The course will prioritize industry design projects and will focus on building relationships with regional and national industry partners. This effort will enrich the student design experience, improve our relationship with industry partners, and facilitate student placement by providing new internship and full-time job opportunities.