



**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 <i>Elizabeth M. Freeburg</i>	SDSM&T Senate 10/11/18
Institutional Approval Signature	Date

Section 1. Course Title and Description

Prefix & No.	Course Title	Credits
BME 308	Biomedical Engineering for Global Health	3

Course Description

This course will ask the question of how biomedical engineering can improve global health. This course will broaden understanding of global health concerns and how biomedical engineering can play a role in improving human health in developed and developing regions. This course will highlight innovative technologies and health-knowledge gaps to show how biomedical engineering can tackle some of the world's most pressing challenges.

Pre-requisites or Co-requisites N/A

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?
 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: D: Discussion/Recitation
- 3.4. Proposed delivery method by university: 025/020 DDN Host/Send Site
- 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: _____ 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 enhances the curriculum through having a course that focuses students to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
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).
 Berit Foss, Quality Assurance Manager, PhD
 Aaron Harmon, Project Manager, 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.
 We plan to incorporate this into a Study Abroad Program to regional reservations as well as Tanzania. This will give our students both the ability to work within a diverse environment and the ability to think critically, yet compassionately in a globally-connected culture. We will create a partnership at local institutions to establish a long-term relationship and collaboration to solve problems, both from an educational and technology perspective