



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 403	Cell Biomechanics	3

Course Description
This course provides the fundamental principles and concepts of biomechanical forces that develop in the human body and how they influence cell functions in a range of biological processes. Discussions will include viscoelastic theories, applications, and methods for studying biomechanics at the cellular and molecular levels.

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

Prefix & No.	Course Title	Pre-Req/Co-Req?
MATH 321	Differential Equations	Pre-Req
BME 303	Introduction to Biomechanics	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:** R: Lecture
- 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

