



**SOUTH DAKOTA BOARD OF REGENTS  
ACADEMIC AFFAIRS FORMS**

**New Course Request**

<u>USD/SDSM&amp;T</u>	<u>Biomedical Engineering/Nanoscience &amp; Nanoengineering</u>
<b>Institution</b>	<b>Division/Department</b>
USD 9/10/2018 <i>Elizabeth M. Freeburg</i>	SDSM&T Senate 10/11/18
<b>Institutional Approval Signature</b>	<b>Date</b>

**Section 1. Course Title and Description**

Prefix & No.	Course Title	Credits
BME 302	Quantitative Systems Physiology II	3

<b>Course Description</b>
The course provides a quantitative approach to fundamental physiological principles and systems. Quantitative Systems Physiology II provides a rigorous overview of the cardiovascular, respiratory, renal, gastrointestinal, and endocrine physiology.

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

Prefix & No.	Course Title	Pre-Req/Co-Req?
BME 301	Quantitative Systems Physiology I	Pre-Req

**Registration Restrictions**

Must have taken BME 301 with a C or better.
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**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: 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

## NEW COURSE REQUEST

### Supporting Justification for On-Campus Review

<b>Request Originator</b>	<b>Signature</b>	<a href="#">Click here to enter a date.</a> <b>Date</b>
<b>Department Chair</b>	<b>Signature</b>	<a href="#">Click here to enter a date.</a> <b>Date</b>
<b>School/College Dean</b>	<b>Signature</b>	<a href="#">Click here to enter a date.</a> <b>Date</b>

1. Provide specific reasons for the proposal of this course and explain how the changes enhance the curriculum.  
This course is a core course for the Biomedical Engineering Degree. This course applies engineering and quantitative modeling to organ system physiology.
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      50
6. Provide qualifications of faculty who will teach this course. List name(s), rank(s), and degree(s).  
Zhongkui Hong, Associate Professor, PhD  
Hongli Sun, Assistant Professor, PhD  
Berit Foss, Quality Assurance Manager, PhD  
Aaron Harmon, Project Manager, PhD  
Erin Harmon, Lab 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.