



SOUTH DAKOTA BOARD OF REGENTS
ACADEMIC AFFAIRS FORMS
 Revised Course Request: Common Course
 (Substantive Modifications)

USD	Dan Engebretson		
Institution	Form Initiator	Dean's Approval Signature	Date
SDSM&T	Nanoscience & Nanoengineering	SDSM&T Senate 10/11/18	10/11/18
Institution	Division/Department	Institutional Approval Signature	Date
USD	Dan Engebretson	Elizabeth M. Freeburg	9/10/18
Institution	Division/Department	Institutional Approval Signature	Date

Indicate universities that currently offer the common course:

- BHSU
 DSU
 NSU
 SDSMT
 SDSU
 USD

Section 1. Existing Course Title and Description

Prefix & No.	Course Title	Credits
ISCI 335/335L	Biomedical Technologies/Lab	3/1

Course Description
Disease models (animal and organoid) and host of cell and molecular biology techniques are routinely used in biomedical research. In this course students will learn how to develop protocols for working with animals as well at PCR, ELISA that comply with Good Laboratory Practices. [LAB: Laboratory to accompany ISCI 335.]

Section 2. Modification(s) Requested

2.1. This modification will include:

- | | | | |
|---|----------------------------|----|--|
| <input checked="" type="checkbox"/> Pre-requisites | <u>Current</u>
ISCI 215 | to | <u>New</u>
ISCI 225 or (BIOL151 + CHEM 114) |
| <input checked="" type="checkbox"/> Cross-listing and equating with | BME 335/BME 335L | | |
| <input checked="" type="checkbox"/> Change delivery method | 001-Face to face | to | 001-Face to face, 020/025 DDN
Host/Receive |

Effective term of the change: 1/1/2019

2.2. Add justification for all changes noted above:

The reason ISCI 215 was initially listed as a pre-requisite was to prepare the students in the associate's degree program for the course. In order to make the course accessible to students in the Biomedical Engineering Bachelor's Degree Program, the pre-requisites will be changed to include ISCI 225: Integrated Science III OR BIOL151 and CHEM 114. The associate's degree program in Integrated Science will not be affected by this change in pre-requisite as the ISCI 215 will still be included in their curriculum.
New Biomedical Engineering Program will utilize this course in the undergraduate program, and for accreditation purposes will need this course to be listed in with the BME prefix.

Section 3. Other Course Information

Will this course equate with any other unique or common courses in the common course database ([Course Inventory Report](#))? No, authority to offer processing

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

- | | | | |
|---|------------------------|----|--------------------------|
| <input type="checkbox"/> Change in University Department Code | <u>Current</u>
UBME | to | <u>New</u>
UBME/MNANO |
| <input type="checkbox"/> Change in CIP Code | 41.0301 | to | N/A |