



**SOUTH DAKOTA BOARD OF REGENTS**  
**ACADEMIC AFFAIRS FORMS**  
**Authority to Offer an Existing Course**

USD Arts & Sciences / Biomedical Engineering  
**Institution** **Division/Department**

Elizabeth M. Freeburg 4/17/2017  
**Institutional Approval Signature** **Date**

1. Is this a request to offer an existing common course or an existing unique course (approval will change course status from unique to common)?

Unique Course

2. Provide the complete description as it appears in the system database including pre-requisites and co-requisites.

Prefix & No.	Course Title	Credits
BIOL 245/245L	Cell Culture Techniques	3/0

➤ USD's section to be created under ISCI prefix creating **ISCI 245/245L**.

Course Description
Students will be introduced to numerous laboratory techniques and methods involving animal, plant, fungal, and bacterial cell cultures. Among the methods taught are: aseptic tissue culture techniques of model organisms, current good lab practices (cGLPs), and isolation, culture, and preservation of prokaryotic and eukaryotic organisms. Students will learn to procure cell cultures from ATCC and other repositories. Additionally, current methods for genetic engineering, propagation, and analysis of crops and animals significant to the field of biotechnology will be explored. Students will also be introduced to fermentation processes as well as the regulatory requirements and associated agencies. <b>Lab description:</b> Laboratory to accompany BIOL 245.

**Co-requisites for BIOL 245 and ISCI 245**

Prefix & No.	Course Title	Pre-req	Co-req
BIOL 245L/ <b>ISCI 245L</b>	Cell Culture Techniques Lab		X

USD's section to be created under ISCI prefix creating ISCI 245L

3. Universities currently offering this course:

       BHSU        DSU   X   NSU        SDSMT        SDSU        USD

4. Does Offering the Course Create FTE Implications?

  X   No. Schedule Management, explain: Course will be taught with existing faculty

5. Existing program(s) in which course will be offered: AS in Integrated Science

6. CIP Code for the course: 26.0401

7. Proposed instructional method by this university: R-Lecture/L-Laboratory

8. Proposed delivery method by this university: 001-Face to face

9. University Dept. Code: UA&S

10. Authority to offer effective beginning in what term? Fall 2017

11. Section Restriction: none

**From:** LaFave, Alan  
**Sent:** Wednesday, July 20, 2016 4:14 PM  
**To:** Freeburg, Beth M <[Beth.Freeburg@usd.edu](mailto:Beth.Freeburg@usd.edu)>; Lien, Joelle L <[Joelle.Lien@northern.edu](mailto:Joelle.Lien@northern.edu)>  
**Subject:** Re: NSU's BIOL 245

Hi Beth,

Sorry for my delayed response! You have NSU's support in this request. Best wishes with the program.

Al

**Alan D. LaFave, D.M.A.**  
Provost/VPAA  
Northern State University  
Aberdeen, SD 57401  
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**From:** "Freeburg, Beth M" <[Beth.Freeburg@usd.edu](mailto:Beth.Freeburg@usd.edu)>  
**Date:** Monday, July 18, 2016 at 10:01 AM  
**To:** "Lien, Joelle L" <[Joelle.Lien@northern.edu](mailto:Joelle.Lien@northern.edu)>, LaFave Alan <[alan.lafave@northern.edu](mailto:alan.lafave@northern.edu)>  
**Subject:** NSU's BIOL 245

Good morning Alan and Joelle,

USD is in the process of building a new associate's degree program in Integrated Sciences at University Center. We would like to include BIOL 245 as a cross-list with ISCI 245 in the program.

Because NSU is approved to teach this course, we would like to seek NSU support for our request.

May we have your approval?

Thank you,

Beth

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