



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

**New Course Request**

<u>USD</u>	<u>Arts &amp; Sciences / Biology</u>
<b>Institution</b>	<b>Division/Department</b>
<u>Elizabeth M. Freeburg</u>	<u>4/01/19</u>
<b>Institutional Approval Signature</b>	<b>Date</b>

**Section 1. Course Title and Description**

Prefix & No.	Course Title	Credits
BIOL 445	Cellular Neuroscience	3

<b>Course Description</b>	This course explores the cellular basis of neural signaling, synaptic transmission, and neural plasticity and how these processes contribute to neurobehavioral and neurodegenerative disorders.
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**Pre-requisites or Co-requisites**

Prefix & No.	Course Title	Pre-Req/Co-Req?
BIOL 151	General Biology I	Pre-req
BIOL 153	General Biology II	Pre-req
CHEM 112	General Chemistry I	Pre-req
CHEM 114	General Chemistry II	Pre-req

**Registration Restrictions None**

**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)?**

- Unique Course**

Prefix & No.	Course Title	Credits
BIOL 430	Neurobiology	3
BIOL 425	Cellular Physiology	3
BIOL 443	Cell Biology	3

*Provide explanation of differences between proposed course and existing system catalog courses below:*

BIOL 430 provides an overview of neurons, nervous system and neural science, but does not provide the in-depth focus on the cellular mechanisms (bio-electrical and neurochemical) of signaling by neurons. BIOL 425 covers cell structure and metabolism, but does not specifically

focus on the specialized cells of the nervous system. BIOL 443 covers the chemical basis of cell structure, but does not focus on the specialized cells of the nervous system.

### **Section 3. Other Course Information**

**3.1. Are there instructional staffing impacts?**

- No. Schedule Management, explain below:  
Course will be added to the rotation for existing faculty.

**3.2. Existing program(s) in which course will be offered:**

Biology major and minor, Medical Biology major, and new Neuroscience major and minor.

**3.3. Proposed instructional method by university:**R Lecture

**3.4. Proposed delivery method by university:**001 Face-to-face

**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:** UBIOL

**4.2. Proposed [CIP Code](#):** 26.1599

*Is this a new CIP code for the university?*  Yes  No