

SOUTH DAKOTA BOARD OF REGENTS

Academic and Student Affairs

AGENDA ITEM: 4 – K (3)

DATE: March 30 – April 1, 2016

SUBJECT: New Certificate: USD Certificate in Laboratory Science

The University of South Dakota (USD) requests authorization to offer a certificate in Laboratory Science. The audience for this certificate includes those working in or looking to work in biotech companies as laboratory workers. Sioux Falls and the surrounding region has a rapidly growing laboratory and life science industry sector highlighted by an increasing number of biotech companies, an industry cited by the Office of Economic Development as one South Dakota's key industries. The certificate consists of 12 credit hours.

RECOMMENDED ACTION OF THE EXECUTIVE DIRECTOR

I move to approve USD's new certificate request for a Laboratory Science Certificate as described in Attachment I.

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Certificate Request

This form is to be used to request approval for a new certificate program that includes currently offered courses. A certificate program is not a major or minor. Refer to BOR policy 2:23 Certificate Programs.

<u>USD</u>	<u>Arts & Sciences /</u>	<u>Elizabeth M. Freeburg</u>	<u>1/21/16</u>
Institution	Biomedical Engineering Division/Department	Institutional Approval Signature	Date

1. Name of Program: Certificate in Laboratory Science

2. Provide a justification for the program.

The University of South Dakota seeks approval to offer a certificate in laboratory science. Sioux Falls and the surrounding region has a rapidly growing laboratory and life science industry sector highlighted by an increasing number of bio-tech companies. This growth was spurred by T. Denny Sanford's investment in then Sioux Valley Hospital and continues to be a focus of economic development efforts by both Sioux Falls and South Dakota. Recently, USD has partnered with the City and Forward Sioux Falls to establish the Discovery District at the University Center site. The proposed Certificate in Laboratory Science will benefit the existing companies and support the emergence and recruitment of new companies. Students that earn a certificate in Laboratory Science will be prepared to be laboratory workers that are making drugs/devices or doing analytical testing. These are "operations" or "production" people in a drug/device/testing company.

3. Who is the audience for the program?

The audience for this certificate includes those working in or looking to work in biotech companies as laboratory workers. Completion of the certificate program can be the first step in a student's educational pathway. All the credits from the certificate program can be applied to an existing Associate's Degree in General Studies. Additionally, USD has proposed an A.A. degree in Integrated Science and is preparing an Intent to Plan for a B.S. degree in Biomedical Engineering; all of the credits earned in the Laboratory Science Certificate can be applied to these degrees. Students that are already seeking (or have already received) B.S. degrees in STEM fields can earn the certificate and better prepare themselves for jobs in the rapidly expanding bioscience field, which the Governor's Office of Economic Development has identified as one of the key industries for growth¹.

4. List the courses to be completed, the credit hours of each course, and the total number of credit hours required for the program.

Prefix & #	Title	Credit Hrs
ISCI 151	Integrated Science I	3
ISCI 151L	Integrated Science I Laboratory	1
ISCI 215	Good Laboratory Practices	3
ISCI 215L	Good Laboratory Practices Laboratory	1
MICR 231	General Microbiology	4
MICR 231L	Microbiology Lab	0
Total Credit Hours Required		12

5. Proposed CIP code 41.0301

6. Effective Date of Certificate Program Fall 2016

¹ <http://www.sdreadytowork.com/Key-Industries/Bioscience.aspx>