

**SOUTH DAKOTA BOARD OF REGENTS**

**Academic and Student Affairs**  
**Consent**

**AGENDA ITEM: 5 – E (2)**

**DATE: May 10, 2022**

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**SUBJECT**

**New Graduate Certificate – DSU – Supply Chain Management**

**CONTROLLING STATUTE, RULE, OR POLICY**

[BOR Policy 2:23](#) – Program and Curriculum Approval

**BACKGROUND / DISCUSSION**

Dakota State University (DSU) requests authorization to offer a graduate certificate in Supply Chain Management. Advances in computing and digital technology have brought greater levels of efficiency and effectiveness to the management of supply chains in every industry. The Certificate in Supply Chain Management will provide graduate students with the essential methods and skills for managing supply chain operations and for integrating supply chain functions into a larger management infrastructure. Specifically, the certificate will develop skills in supply chain design, logistics, forecasting, data-based decision making, and statistics. The certificate will provide specific skills needed by managers who have recently moved, or who anticipate a move, into a supply chain management position and provides a solid base of professional knowledge.

DSU currently offers a Supply Chain Management emphasis within their MBA degree, which includes each of the courses proposed in the new certificate.

**IMPACT AND RECOMMENDATION**

DSU plans to offer the certificate in Supply Chain Management on campus and online. DSU does not request new state resources. No new courses will be required.

Board office staff recommends approval.

**ATTACHMENTS**

Attachment I – New Certificate Request: DSU – Supply Chain Management (Graduate)

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**DRAFT MOTION 20220510\_5-E(2):**

I move to authorize DSU to offer a graduate certificate in Supply Chain Management, as presented.



## SOUTH DAKOTA BOARD OF REGENTS ACADEMIC AFFAIRS FORMS

### New Certificate

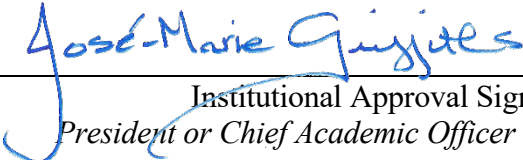
<b>UNIVERSITY:</b>	DSU
<b>TITLE OF PROPOSED CERTIFICATE:</b>	Supply Chain Management
<b>INTENDED DATE OF IMPLEMENTATION:</b>	Fall 2022
<b>PROPOSED CIP CODE:</b>	52.0203
<b>UNIVERSITY DEPARTMENT:</b>	Business
<b>BANNER DEPARTMENT CODE:</b>	DBUSS
<b>UNIVERSITY DIVISION:</b>	College of Business and Information Systems
<b>BANNER DIVISION CODE:</b>	DCBIS

☒ **Please check this box to confirm that:**

- The individual preparing this request has read [AAC Guideline 2.7](#), which pertains to new certificate requests, and that this request meets the requirements outlined in the guidelines.
- This request will not be posted to the university website for review of the Academic Affairs Committee until it is approved by the Executive Director and Chief Academic Officer.

#### University Approval

*To the Board of Regents and the Executive Director: I certify that I have read this proposal, that I believe it to be accurate, and that it has been evaluated and approved as provided by university policy.*

 _____ Institutional Approval Signature President or Chief Academic Officer of the University	2/23/2022 _____ Date
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Note: In the responses below, references to external sources, including data sources, should be documented with a footnote (including web addresses where applicable).

**1. Is this a graduate-level certificate or undergraduate-level certificate (place an "X" in the appropriate box)?**

Undergraduate Certificate    ☐                      Graduate Certificate    ☒

- 2. What is the nature/ purpose of the proposed certificate? Please include a brief (1-2 sentence) description of the academic field in this certificate.**

Supply Chain Management (SCM), especially for managers who are organizing and controlling it at an organizational level, is a specialized field that requires additional training beyond a bachelor's degree. Dakota State University's Certificate in SCM blends management techniques with data analysis skills to support the University's mission, within the larger BOR system, to stay at the forefront of technology-infused education across all majors, and to increase connections with the community, business, and government agencies. The SCM certificate will provide specific skills needed by managers who have recently moved, or who anticipate a move, into a supply chain management position, and provides a solid base of professional knowledge.

- 3. If you do not have a major in this field, explain how the proposed certificate relates to your university mission and strategic plan, and to the current Board of Regents Strategic Plan 2014-2020.**

*Links to the applicable State statute, Board Policy, and the Board of Regents Strategic Plan are listed below for each campus.*

DSU: [SDCL § 13-59](#) [BOR Policy 1:10:5](#)  
[Board of Regents Strategic Plan 2014-2020](#)

DSU does not currently offer a major in Supply Chain Management, however, we currently offer a Supply Chain Management emphasis in the Master of Business Administration degree. This certificate is directly related to the university's mission by preparing students for compelling, creative, and lasting careers with the combination of supply chain management solutions, decision making and analytics. The proposed program would not only train students directly in supply change management tools, methods, and techniques, but also enhance their training in business.

- 4. Provide a justification for the certificate program, including the potential benefits to students and potential workforce demand for those who graduate with the credential. *For workforce related information, please provide data and examples. Data may include, but are not limited to the South Dakota Department of Labor, the US Bureau of Labor Statistics, Regental system dashboards, etc. Please cite any sources in a footnote.***

Advances in computing and digital technology have brought greater levels of efficiency and effectiveness to the management of supply chains in every industry. The Certificate in Supply Chain Management will provide graduate students with the essential methods and skills for managing supply chain operations and for integrating supply chain functions into a larger management infrastructure. Specifically, the certificate will develop skills in supply chain design, logistics, forecasting, data-based decision making, and statistics.

The advent of information technology to support and enhance supply chain management and decision making, though economically valuable, has necessitated new skills sets for managers. Integrating logistics and cost-minimization functions with the remainder of an organization's value chain takes special abilities, perspectives and, as it relates to this certificate, skills and training. The focus is on extracting useful data from organizational processes, analyzing those data to create useful/actionable information, then both using that

information in decision making and communicating it to non-SCM managers and other employees.

Skills in Supply Chain Management and related topics are in high demand now and are expected to remain so over the long term. Because there is a shortage of qualified persons, salaries for related positions remain high.

*South Dakota Department of Labor and Regulation <sup>1</sup>*

SOC* Code	Occupation Title	2018 Employed	2028 Employed	Job Outlook growth 2020	2020 Median Pay
11-1021	General and Operations Managers	4,028	4412	9.3%	\$107,680
13-1111	Management Analysts	1,424	1,573	10.5%	\$87,660
51-1011	Project Management Specialists and Business Operations Specialists	1,777,300	1,876,500	6%	\$77,420

<sup>1</sup> [https://dlr.sd.gov/lmic/menu\\_projections\\_occupation\\_statewide.aspx](https://dlr.sd.gov/lmic/menu_projections_occupation_statewide.aspx)

*U.S. Bureau of Labor Statistics*

SOC Code	Occupation Title	2020 Employed	2030 Employed	Job Outlook growth 2020	2020 Median Pay
11-1021	General and Operations Managers <sup>2</sup>	2,704,400	2,913,900	8%	\$107,680
13-1111	Management Analysts <sup>3</sup>	907,600	1,032,000	14%	\$87,660
51-1011	Project Management Specialists and Business Operations Specialists <sup>4</sup>	1,777,300	1,876,500	6%	\$77,420

<sup>2</sup> <https://www.bls.gov/ooh/management/top-executives.htm>

<sup>3</sup> <https://www.bls.gov/ooh/business-and-financial/management-analysts.htm#tab-6>

<sup>4</sup> <https://www.bls.gov/ooh/about/data-for-occupations-not-covered-in-detail.htm#131198>

**5. Who is the intended audience for the certificate program (including but not limited to the majors/degree programs from which students are expected)?**

The proposed curriculum is 9 credit-hours of coursework, delivered so that students can complete the certificate fully online. For career professionals already working in the field, or for those in graduate degree programs at DSU or other BOR institutions, it is expected that a student could complete the certificate in one to two years while simultaneously taking other graduate courses or working full-time.

**6. Certificate Design**

**A. Is the certificate designed as a stand-alone education credential option for students not seeking additional credentials (i.e., a bachelor's or master's degree)? If so, what areas of high workforce demand or specialized body of knowledge will be addressed through this certificate?**

The Certificate in Supply Chain Management is open to college graduates, including those enrolled in graduate degree programs at any SDBOR institution, and is also available as a stand-alone (non-degree) post-baccalaureate certification. The certificate aims to attract post-college, career-employed students who either (1) want to enhance their skills related to their current work, or (2) gain skills that would be needed to move into supply chain management positions. For

some students, foundational knowledge courses or academic leveling courses may be required before enrollment in any of the three courses in the certificate.

**B. Is the certificate a value-added credential that supplements a student's major field of study? If so, list the majors/programs from which students would most benefit from adding the certificate.**

See above

**C. Is the certificate a stackable credential with credits that apply to a higher-level credential (i.e., associate, bachelor's, or master's degree)? If so, indicate the program(s) to which the certificate stacks and the number of credits from the certificate that can be applied to the program.**

See above

- 7. List the courses required for completion of the certificate in the table below (if any new courses are proposed for the certificate, please attach the new course requests to this form). Certificate programs by design are limited in the number of credit hours required for completion. Certificate programs consist of nine (9) to twelve (12) credit hours, including prerequisite courses. In addition, certificates typically involve existing courses. If the curriculum consists of more than twelve (12) credit hours (including prerequisites) or includes new courses, please provide explanation and justification below.**

<b>Prefix</b>	<b>Number</b>	<b>Course Title</b> <i>(add or delete rows as needed)</i>	<b>Prerequisites for Course</b> <i>Include credits for prerequisites in subtotal below.</i>	<b>Credit Hours</b>	<b>New (yes, no)</b>
BADM	729	Analysis of Managerial Decisions		3	No
BADM	730	Supply Chain Management	BADM 729	3	No
BADM	732	Supply Chain Analytics	BADM 729 and BADM 730	3	No
Subtotal				9	

**8. Student Outcome and Demonstration of Individual Achievement.**

*Board Policy 2:23 requires certificate programs to "have specifically defined student learning outcomes."*

**A. What specific knowledge and competencies, including technology competencies, will all students demonstrate before graduation? The knowledge and competencies should be specific to the program and not routinely expected of all university graduates.**

- Use software to manipulate/manage supply chain or logistics data
- Understand, analyze, and use data
- Assess the reliability of data sources
- Assess information and information technologies critically

- B. Complete the table below to list specific learning outcomes – knowledge and competencies – for courses in the proposed program in each row. *Label each column heading with a course prefix and number. Indicate required courses with an asterisk (\*). Indicate with an X in the corresponding table cell for any student outcomes that will be met by the courses included. All students should acquire the program knowledge and competencies regardless of the electives selected. Modify the table as necessary to provide the requested information for the proposed program.***

<b>Individual Student Outcome</b> (Same as in the text of the proposal)	BADM 729	BADM 730	BADM 732
Ability to use software to manipulate/manage supply chain or logistics data	X	X	X
Ability to understand, analyze, and use data	X	X	X
Develop skills for assessing the reliability of data sources	X	X	X
Ability to assess information and information technologies critically	X	X	X
Develop technology skills	X	X	X
Ability to integrate work experience with classroom knowledge, as applicable	X	X	X

*Modify the table as necessary to include all student outcomes. Outcomes in this table are to be the same ones identified in the text.*

## 9. Delivery Location.

*Note: The accreditation requirements of the Higher Learning Commission (HLC) require Board approval for a university to offer programs off-campus and through distance delivery.*

- A. Complete the following charts to indicate if the university seeks authorization to deliver the entire program on campus, at any off campus location (e.g., USD Community College for Sioux Falls, Black Hills State University-Rapid City, Capital City Campus, etc.) or deliver the entire program through distance technology (e.g., as an on-line program)?**

	<b>Yes/No</b>	<b>Intended Start Date</b>
<b>On campus</b>	Yes	Fall 2022

	<b>Yes/No</b>	<b>If Yes, list location(s)</b>	<b>Intended Start Date</b>
<b>Off campus</b>	Choose an item.		Choose an item. Choose an item.

	<b>Yes/No</b>	<b>If Yes, identify delivery methods</b> <i>Delivery methods are defined in <a href="#">AAC Guideline 5.5</a>.</i>	<b>Intended Start Date</b>

<b>Distance Delivery (online/other distance delivery methods)</b>	Yes	018 Synchronous	<b>Fall 2022</b>
<b>Does another BOR institution already have authorization to offer the program online?</b>	Yes	<b>If yes, identify institutions: USD has a 12-credit Operations and Supply Chain Management</b>	

Six credits in this certificate are from DSU's MBA Emphasis and another 3 credits required are a part of the MBA Core - therefore all students in the MBA program who choose an emphasis in supply chain management already take these courses. The courses in this certificate focus on statistical methods and analytics. The certificate would transcribe a specific credential, as emphases do not appear on the transcript.

The certificate is also standalone for students who did not have previous graduate business education and wanted to gain specific skills related to supply chain, either as practitioners or non-supply-chain managers who frequently work/communicate with supply chain managers.

**B. Complete the following chart to indicate if the university seeks authorization to deliver more than 50% but less than 100% of the certificate through distance learning (e.g., as an on-line program)? This question responds to HLC definitions for distance delivery.**

	<b>Yes/No</b>	<b><i>If Yes, identify delivery methods</i></b>	<b><i>Intended Start Date</i></b>
<b>Distance Delivery (online/other distance delivery methods)</b>	No		Choose an item. Choose an item.