



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

<b>UNIVERSITY:</b>	<b>University of South Dakota</b>
<b>TITLE OF PROPOSED CERTIFICATE:</b>	<b>Operations and Supply Chain Management</b>
<b>INTENDED DATE OF IMPLEMENTATION:</b>	<b>Fall 2017</b>
<b>PROPOSED CIP CODE:</b>	<b>52.0201</b>
<b>UNIVERSITY DEPARTMENT:</b>	<b>Beacom School of Business</b>
<b>UNIVERSITY DIVISION:</b>	<b>Economics and Decision Sciences</b>

**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* Date

**1. Is this a graduate-level certificate or undergraduate-level certificate?**

Undergraduate Certificate  Graduate Certificate

**2. What is the nature/purpose of the proposed certificate?**

This certificate will use existing courses developed for the MBA program with Operations and Supply Chain (OPSC) specialization to meet the growing market demand for graduates with the ability to increase operational efficiency and reduce waste from organizational processes. The Operations and Supply Chain Management certificate offers students an in-depth study of supply chain management, lean management, quality control, and other topics relevant in today's rapidly evolving global market. Students pursuing the Operations and Supply Chain Management certificate can cultivate a more focused career path with strengths in managing logistics, sourcing, quality, and waste reduction. There are three main kinds of students we expect to attract to this program. First, it would allow potential students who already hold an MBA from USD who graduated before the OPSC specialization existed to supplement their coursework with more in-depth OPSC knowledge. Second, it may attract students who hold an MBA from another institution wishing to supplement their knowledge base with more in-depth OPSC study. Finally, it may also attract students with an undergraduate degree who are interested in only enhancing their OPSC knowledge without earning a full MBA. Students who pursue the MBA program and earn a transcribed MBA with OPSC specialization would not be eligible for this certificate program. Students will need to have at least one undergraduate Operations Management course to be eligible as this is a prerequisite for courses in the program.

**3. Provide a justification for the certificate program, including the potential benefits to students and potential workforce demand for those who graduate with the credential.<sup>1</sup>**

The Beacom School of Business recently performed a survey of its students to ascertain which specializations would students would have an interest in pursuing and which would help their desired career paths. Sixty-four of the program’s nearly 300 students completed the survey. In this survey, 68.2% stated operations management would be relevant to their desires career path with four write-in responses indicating supply chain management or project management as preferred additions. Presumably, students who already hold an MBA would also be interested in pursuing the coursework in the specialization; creation of a graduate certificate allows them this opportunity. The U.S. Bureau of Labor Statistics anticipates job growth in General and Operations Managers to be 7.1% and Operations Research Analysts to be 30.2%, over the next 8 years<sup>2</sup>. Additionally, the South Dakota Department of Labor and Regulation estimates job growth in the area of Business Operations Specialists to be over 4% over the next 8 years.<sup>3</sup> Typical jobs in this area include supply chain manager, plant manager, materials manager, purchasing manager, operations research analyst, facilities coordinator, or quality assurance manager.

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

Initially, the targeted audience will be students who graduated with an MBA from USD but would like to have transcribed, in-depth knowledge of OPSC. Our MBA graduates will have taken 1-2 courses from this list already. Going forward, we may attract students who completed an MBA from another institution who are interested in a more in-depth understanding of OPSC or students who would like the knowledge but are not interested in an MBA program.

**5. List the courses required for completion of the certificate in the table below:<sup>4</sup>**

<b>Prefix</b>	<b>Number</b>	<b>Course Title</b> <i>(add or delete rows as needed)</i>	<b>Credit Hours</b>	<b>New (yes, no)</b>
BADM	760	Operations Management	3	No
DSCI	527	Supply Chain Management	3	No
Select Two of the Following				
DSCI	526	Lean Management	3	No
DSCI	541	Project Management	3	No
DSCI	727	Quality Management	3	No
DSCI	723	Data Management and Warehousing	3	No
BADM	592	Approved Special Topics	3	No
Subtotal			12	

Background in foundation pre-requisite business courses is required before a student may be admitted to the certificate program. Students would at least need one undergraduate operations

<sup>1</sup> For workforce related information, please provide data and examples; data sources may include but are not limited to the South Dakota Department of Labor, the US Bureau of Labor Statistics, Regental system dashboards, etc.

<sup>2</sup> <https://data.bls.gov/projections/occupationProj>

<sup>3</sup> <https://www.sdvlmi.com/vosnet/analyzer/results.aspx?session=occproj&pu=1&plang=E>

<sup>4</sup> Regental system certificate programs typically are a subset of the curriculum offered in degree programs, include existing courses, and involve 9-12 credits for completion. Deviations from these guidelines require justification and approval.

management course to be eligible to meet the prerequisites for the courses in this certificate. Some of the course options require either an undergraduate statistics course or BADM 520 and an undergraduate information systems course or BADM 523. It is possible to complete the certificate with only an undergraduate operations management course as a prerequisite. Graduate foundations courses, undergraduate equivalents, or challenge exams are available for students who need to demonstrate prerequisite knowledge.

**6. Student Outcome and Demonstration of Individual Achievement.<sup>5</sup>**

**A. What specific knowledge and competencies, including technology competencies, will all students demonstrate before graduation?**

Students who complete this program will be able to apply concepts from operations and supply chain management to solve business problems including increasing operational efficiency, managing logistics, sourcing, and waste reduction. Students will also have the opportunity to select two electives from a list to supplement this knowledge based on their specific needs. Additional topics students can choose from include project management, lean management, quality control and six sigma, and data management and warehousing.

**B. Complete Appendix A – Outcomes using the system form. Outcomes discussed below should be the same as those in Appendix A.**

See Appendix A.

**7. On-line and Off-campus Delivery.<sup>6</sup>**

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

	Yes	No	If Yes, list location(s)	Intended Start Date
<b>Off-campus</b>		X		

	Yes	No	If Yes, identify delivery methods	Intended Start Date
<b>Distance Delivery</b>	X		Online	Fall 2017

**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)?**

Not applicable

<sup>5</sup> Board Policy 2:23 requires certificate programs to “have specifically defined student learning outcomes.”

<sup>6</sup> The accreditation requirements of the Higher Learning Commission (HLC) require Board approval for a university to offer programs off-campus and through 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</b>	No		
<b>Delivery Method (if applicable)</b>			

**8. Additional Information:** *N/A*

Appendix A.

**Individual Student Outcomes and Program Courses**

*List specific individual student outcomes—knowledge and competencies—in each row. Label each column with a course prefix and number. Indicate required courses with an asterisk (\*). Indicate with an X the courses that will provide the student with an opportunity to acquire the knowledge or competency listed in the row. 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.*

Individual Student Outcome	Program Courses that Address the Outcomes				
	BADM 526	BADM 527	BADM 541	BADM 723	BADM 727
Students should be able to describe the major theories and philosophical frameworks in operations and supply chain management and their relationship to other core business functions.	*	*	*		*
Students should be able to demonstrate the use of operations and supply chain management techniques/skills for analyzing and controlling production and service operations processes.	*	*	*	*	*
Students should be able to critically analyze and propose practical solutions to operations and supply chain management problems/issues.	*	*	*	*	*
Students should be able to present proposed solutions in a professional manner using appropriate written and oral presentation skills.	*	*	*		*