

**SOUTH DAKOTA BOARD OF REGENTS**

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

**AGENDA ITEM: 6 – F (3)**  
**DATE: March 29-30, 2022**

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**SUBJECT**

**New Program Request – DSU – AS in Project Management**

**CONTROLLING STATUTE, RULE, OR POLICY**

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

[AAC Guideline 2.4](#) – Intent to Plan for a New Program

**BACKGROUND / DISCUSSION**

Dakota State University (DSU) requests permission to offer an AS program in Project Management. The proposed program will prepare students for entry level positions with the ability to plan projects, estimate and schedule tasks, and provide the status of projects. The AS will cover broad topics related to project management, which will be useful in any business and/or industry, and particularly the information technology sector.

The proposed program will stack into the existing Project Management specialization within the BS in Computer Information Systems. Because of this, the intent to plan for this program was waived by the Executive Director, per AAC Guideline 2.4.

**IMPACT AND RECOMMENDATION**

DSU requests authorization to offer the program both on campus and online. DSU does not request new state resources. No new courses will be necessary, as all courses are currently part of the Project Management specialization within the BS in Computer Information Systems. DSU anticipates 15 enrolled students and seven graduates within four years.

Board office staff recommends approval of the program.

**ATTACHMENTS**

Attachment I – New Program Request: DSU – AS in Project Management

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**DRAFT MOTION 20220329\_6-F(3):**

I move to authorize DSU to offer an AS in Project Management, as presented.



## SOUTH DAKOTA BOARD OF REGENTS ACADEMIC AFFAIRS FORMS

### New Undergraduate Degree Program

Use this form to propose a new undergraduate degree program. An undergraduate degree program includes a new major, a new degree, or both. The Board of Regents, Executive Director, and/or their designees may request additional information about the proposal. After the university President approves the proposal, submit a signed copy to the Executive Director through the system Chief Academic Officer. Only post the New Undergraduate Degree Program Form to the university website for review by other universities after approval by the Executive Director and Chief Academic Officer.

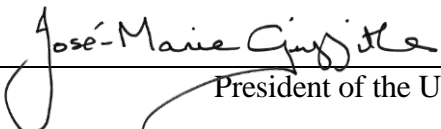
<b>UNIVERSITY:</b>	DSU
<b>MAJOR:</b>	
<b>EXISTING OR NEW MAJOR(S):</b>	<b>Project Management</b>
<b>DEGREE:</b>	
<b>EXISTING OR NEW DEGREE(S):</b>	<b>Associate of Science</b>
<b>INTENDED DATE OF IMPLEMENTATION:</b>	<b>Fall 2022</b>
<b>PROPOSED CIP CODE:</b>	<b>11.0401</b>
<b>SPECIALIZATIONS:</b> <i>Note: If the new proposed program includes specific specializations within it, complete and submit a New Specialization Form for each proposed specialization and attach it to this form. Since specializations appear on transcripts, they require Board approval.</i>	<b>None</b>
<b>IS A SPECIALIZATION REQUIRED (Y/N):</b>	No
<b>DATE OF INTENT TO PLAN APPROVAL:</b>	<a href="#">Click here to enter a date.</a>
<b>UNIVERSITY DEPARTMENT:</b>	<b>College of Business and Info Systems</b>
<b>BANNER DEPARTMENT CODE:</b>	<b>DCBIS - 81</b>
<b>UNIVERSITY DIVISION:</b>	<b>Information Systems</b>
<b>BANNER DIVISION CODE:</b>	<b>DINF</b>

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

- The individual preparing this request has read [AAC Guideline 2:9](#), which pertains to new undergraduate degree program 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.*

  
 \_\_\_\_\_  
 President of the University

10/19/2021  
 \_\_\_\_\_  
 Date

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

The proposed program focuses on project management. It will prepare graduates for entry level positions with the ability to plan projects, estimate and schedule tasks, and provide status.

**2. How does the proposed program relate to the university's mission and strategic plan, and to the current Board of Regents Strategic Plan 2014-2020?**

Under SDCL 13-59, the primary purpose of Dakota State University at Madison in Lake County is to provide instruction in computer management, computer information systems, electronic data processing, and other related undergraduate and graduate programs.

The most recent DSU Strategic Plan includes goals that are directly related to this program request:

- Offer innovative and robust academic programs that link to our mission.
- Infuse innovative technology in the delivery of academic programs.
- Optimize undergraduate and graduate enrollments.

The proposed associate degree in Project Management supports all of these strategic directions for DSU. The proposed program aligns with the Board of Regents Strategic Plan 2014-2020, including but not limited to the following goals:

- Grow undergraduate and graduate degrees awarded.
- Increase the number of graduates from STEM programs.
- Encourage campuses to increase recruitment and retention of undergraduate STEM majors.
- Encourage development of academic programs and certificates that align with existing and future state workforce needs.

**3. Describe the workforce demand for graduates of the program, including national demand and demand within South Dakota.**

The Project Management Institute estimates a growth rate of 33% through 2027 for Project Managers. In 2017 there were 6.7 million project management jobs in the United States. By 2027, there are expected to be 8.8 million jobs in Project Management. It is projected that 213,000 jobs in project management will become available per year through 2027<sup>1</sup>.

Indeed.com shows over 200 current project management job openings in South Dakota<sup>2</sup>.

**4. How will the proposed program benefit students?**

This associate degree provides individuals with broad topics that would be useful for any entry level position requiring project management skills in any business and/or industry and particularly in the information technology sector. In addition, a graduate with the AS in Project

<sup>1</sup> [https://www.pmi.org/-/media/pmi/documents/public/pdf/learning/job-growth-report.pdf?v=c304efd3-8c2a-48dc-9489-a945a8a07614&sc\\_lang\\_temp=en](https://www.pmi.org/-/media/pmi/documents/public/pdf/learning/job-growth-report.pdf?v=c304efd3-8c2a-48dc-9489-a945a8a07614&sc_lang_temp=en)

<sup>2</sup> <https://www.indeed.com/q-Project-Manager-l-South-Dakota-jobs.html?vjk=756bb05d0150cec3>

Management is positioned to stack all the courses from this degree into the BS Computer Information Systems, Project Management specialization.

## 5. Program Proposal Rationale:

### A. If a new degree is proposed, what is the rationale?

Not applicable

### B. What is the rationale for the curriculum?

Because this program is directly stackable into the BS degree without any courses not used elsewhere and already taught, there will be no new courses associated with this degree. It allows students to have these “milestones” accomplished on their academic road toward a future BS degree.

The curriculum covers the core topics for a foundation in project management, with an emphasis on software and technology related projects. The courses also provide a range of project management subject matter suitable for taking the Project Management Institute’s Certified Associate in Project Management (CAPM).

### C. Demonstrate/provide evidence that the curriculum is consistent with current national standards.

The Project Management Institute is an internationally recognized project management certification organization. Our curriculum aligns well with their subject matter areas outlined for their certification exam<sup>3,4</sup>. Our curriculum includes a few additional courses to prepare students for project management in a technical environment.

The breakdown of exam topics across the thirteen chapters of the PMBOK Guide are as follows:

1. Introduction to Project Management: 6%
2. Project Environment: 6%
3. Role of the Project Manager: 7%
4. Project Integration: 9%
5. Project Scope: 9%
6. Project Schedule: 9%
7. Project Cost: 8%
8. Project Quality: 7%
9. Project Resource: 8%
10. Project Communication: 10%
11. Project Risk: 8%
12. Project Procurement: 4%
13. Project Stakeholder: 9%

<sup>3</sup> <https://www.pmi.org/-/media/pmi/documents/public/pdf/certifications/certified-associate-project-management-handbook.pdf?v=cb3714b1-3344-4231-af2e-a131a536adce>

<sup>4</sup> <https://www.coursera.org/articles/capm-certification-guide>

**D. Summary of the degree program (complete the following tables):**

<b>AS in Project Management</b>	<b>Credit Hours</b>	<b>Credit Hours</b>	<b>Percent</b>
System General Education Requirements	24*		
Subtotal, Degree Requirements		24	40%
Required Support Courses (not included above)	3		
Major Requirements	30		
Major Electives	3		
Subtotal, Program Requirements		36	60%
Free Electives		0	
Degree Total	16	60	100%

\*ECON 201 must be taken as one of the SGE Social Study required courses.

**Required Support Courses Outside the Major**

(Not general education requirements)

<b>Prefix</b>	<b>Number</b>	<b>Course Title</b>	<b>Prerequisite</b>	<b>Credit Hours</b>	<b>New (yes, no)</b>
ACCT	210	Principles of Accounting		3	No
Subtotal				3	

**Major Requirements**

<b>Prefix</b>	<b>Number</b>	<b>Course Title</b>	<b>Prerequisite</b>	<b>Credit Hours</b>	<b>New (yes, no)</b>
CSC	105	Introduction to Computers		3	No
CSC	150	Computer Science I	CSC 105	3	No
CSC	145	Cyber Security Fundamentals		3	No
CIS	251	Business Application Programming	CSC 150	3	No
CIS	325	Management Information Systems		3	No
CIS	332	Structured Systems Analysis and Design	CSC 150	3	No
CIS	338	Project Management		3	No
CIS	424	Agile Software Development	CIS 251	3	No
CIS	438	Advanced Project Management	CSC 338	3	No
Choose three credits from the following four courses				3	
CIS	206	Advanced Applications:		1	No
CIS	207	Advanced Applications: Spreadsheets		1	No
CIS	208	Advanced Applications: Database		1	No
CIS	210	QuickBooks I		1	No
Subtotal				30	

**Major Electives: List courses available as electives in the program. Indicate any proposed new courses added specifically for the major.**

Prefix	Number	Course Title	Credit Hours	New (yes, no)
ACCT, BADM, CIS, ECON		Any ACCT, BADM, CIS or ECON course	3	No
Subtotal			3	

\*BADM 344 Business Communications is a recommended elective.

## 6. Student Outcomes and Demonstration of Individual Achievement

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

Individual Student Outcome (Same as in the text of the proposal)	CSC 105 / 150	CSC 145	CIS 20 (6,7, 8, 10)	CIS 251	CIS 325	CIS 332
Initiate systems projects with clear scope, requirements, and stakeholders	X	X		X	X	X
Plan complex projects using appropriate tools			X			X
Document project risk		X	X			
Manage project costs						
Select the appropriate management approach based on project circumstances					X	X
Exercise ethical project management						

Individual Student Outcome (Same as in the text of the proposal)	CIS 338	CIS 424	CIS 438	ACCT 210
Initiate projects with clear scope, requirements, and stakeholders	X	X		
Plan complex projects using appropriate tools	X	X	X	
Document project risk	X		X	
Manage project costs	X		X	X
Select the appropriate management approach based on project circumstances	X	X	X	
Exercise ethical project management	X		X	

**B. Are national instruments (i.e., examinations) available to measure individual student achievement in this field? If so, list them.**

Yes, Project Management Institute's (PMI) Certified Associate in Project Management. Student's will be prepared for and encouraged to take the exam, but there is a \$300 charge payable to PMI for taking the exam, so it will not be required for the course.

**C. How will individual students demonstrate mastery? Describe the specific examinations and/or processes used, including any external measures (including national exams, externally evaluated portfolios, or student activities, etc.). What are the consequences for students who do not demonstrate mastery?**

Students will take the AS in Project Management major field assessment.

**7. What instructional approaches and technologies will instructors use to teach courses in the program?**

Instructors will use projectors to display notes, slides, and other materials including interactive Jupyter Notebook documents from their computers to the students. Classes taught online will have videos that stream synchronously or be recorded for later playback.

**8. Did the University engage any developmental consultants to assist with the development of the curriculum? Did the University consult any professional or accrediting associations during the development of the curriculum? What were the contributions of the consultants and associations to the development of curriculum?**

No

**9. Are students enrolling in the program expected to be new to the university or redirected from other existing programs at the university? Complete the table below and explain the methodology used in developing the estimates (replace “XX” in the table with the appropriate year). If question 12 includes a request for authorization for off-campus or distance delivery, add lines to the table for off-campus/distance students, credit hours, and graduates.**

<i>Estimates</i>	<b>Fiscal Years*</b>			
	<b>1<sup>st</sup></b>	<b>2<sup>nd</sup></b>	<b>3<sup>rd</sup></b>	<b>4<sup>th</sup></b>
	<b>FY 22</b>	<b>FY 23</b>	<b>FY 24</b>	<b>FY 25</b>
Students new to the university	5	5	5	5
Students from other university programs	0	0	0	0
Students off-campus or distance	2	2	2	2
Continuing students	0	7	7	7
=Total students in the program (fall)	7	14	14	14
Program credit hours (major courses)**	126	252	252	252
Graduates		7	7	7

\*Do not include current fiscal year.

\*\*This is the total number of credit hours generated by students in the program in the required or elective program courses. Use the same numbers in Appendix B – Budget.

The Bachelor’s degree that this proposed major stacks into is Computer Information Systems (CIS). CIS has three specializations, one of which is Project Management which has 22 students currently enrolled in that specialization. The AS in Project Management will stack directly into the Project Management specialization. We anticipate at least 7 students will select the Associate of Science degree.

**10. Is program accreditation available? If so, identify the accrediting organization and explain whether accreditation is required or optional, the resources required, and the University’s plans concerning the accreditation of this program.**

No

**11. Does the University request any exceptions to any Board policy for this program? Explain any requests for exceptions to Board Policy.**

No

**12. Delivery Location**

**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 Center 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 online program)?**

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

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

	Yes/No	If Yes, identify delivery methods <i>Delivery methods are defined in <a href="#">AAC Guideline 5.5.</a></i>	Intended Start Date
<b>Distance Delivery (online/other distance delivery methods)</b>	Yes	015	Fall 2022
<b>Does another BOR institution already have authorization to offer the program online?</b>	No	<b>If yes, identify institutions:</b>	

**B. Complete the following chart to indicate if the university seeks authorization to deliver more than 50% but less than 100% of the program through distance learning (e.g., as an online program)?**

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



- 13. Cost, Budget, and Resources: Explain the amount and source(s) of any one-time and continuing investments in personnel, professional development, release time, time redirected from other assignments, instructional technology & software, other operations and maintenance, facilities, etc., needed to implement the proposed major. Address off-campus or distance delivery separately.**

The College of Business and Information System will use existing courses and faculty so no additional budget sought. The additional students anticipated in this major can be accommodated with no additional sections being planned.

- 14. Is the university requesting or intending to request permission for a new fee or to attach an existing fee to the program (place an "X" in the appropriate box)? If yes, explain.**

Yes       No

*Explanation (if applicable):*

- 15. New Course Approval: New courses required to implement the new undergraduate degree program may receive approval in conjunction with program approval or receive approval separately. Please check the appropriate statement:**

- YES,  
*the university is seeking approval of new courses related to the proposed program in conjunction with program approval. All New Course Request forms are included as Appendix C and match those described in section 5D.*
- NO,  
*the university is not seeking approval of all new courses related to the proposed program in conjunction with program approval; the institution will submit new course approval requests separately or at a later date in accordance with Academic Affairs Guidelines.*