AGENDA ITEM: 7 – F (1)
DATE: June 21-22, 2023

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SUBJECT
New Specialization Request – DSU – Specialization in Analytics – MS in Information Systems

CONTROLLING STATUTE, RULE, OR POLICY
BOR Policy 2:23 – New Programs, Program Modifications, Curricular Requests and Inactivation/Termination

BACKGROUND / DISCUSSION
Dakota State University (DSU) requests authorization to offer a specialization in Analytics within the MS in Information Systems program. The proposed specialization prepares students to solve crucial data-driven business problems and assist with analytics-driven decision making that is needed in the work force as the progression of big data jobs continues to grow. Adding an Analytics specialization to the MSIS program can provide students one more specialization choice and convenience for switching programs between MSIS and MSA programs.

IMPACT AND RECOMMENDATION
DSU requests authorization to offer the specialization on campus and online. DSU is not requesting additional state resources to offer the program. No new courses will be required.

Board office staff recommends approval of the program.

ATTACHMENTS
Attachment I – New Specialization Request Form: DSU – Analytics – MS in Information Systems

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DRAFT MOTION 20230621_7-F(1):
I move to authorize DSU to offer a specialization in Analytics within the MS in Information Systems, as presented.

SOUTH DAKOTA BOARD OF REGENTS
ACADEMIC AFFAIRS FORMS

New Specialization

Use this form to propose a new specialization within an existing degree program. Specializations provide students with an alternative to the primary format of the major or it may be one of several tracks within a broad major. Specializations contain courses within the discipline(s) of the existing program. Specializations appear in the institutional catalog and on the transcript. Majors that offer specializations typically have one-third to two-thirds of the credits in common with the remaining course work fulfilling the requirements of the specialization(s) offered. 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 Specialization Form to the university website for review by other universities after approval by the Executive Director and Chief Academic Officer.

UNIVERSITY:	DSU
TITLE OF PROPOSED SPECIALIZATION:	**Analytics**
NAME OF DEGREE PROGRAM IN WHICH SPECIALIZATION IS OFFERED:	**MS in Information Systems**
BANNER PROGRAM CODE:	**DMSINS**
INTENDED DATE OF IMPLEMENTATION:	**5/15/2023**
PROPOSED CIP CODE:	**11.0401**
UNIVERSITY DEPARTMENT:	**Information Systems**
BANNER DEPARTMENT CODE:	**DINFS**
UNIVERSITY DIVISION:	**College of Business and Info Systems**
BANNER DIVISION CODE:	**DBIS – 8I**

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

- The individual preparing this request has read AAC Guideline 2.6, which pertains to new specialization 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.

Rebecca S. Hoey	3/10/2023
Institutional Approval Signature	Date
President or Chief Academic Officer of the University	

Note: In the responses below, references to external sources, including data sources, should be documented with a footnote (including web addresses where applicable).

1. **Level of the Specialization (*place an "X" in the appropriate box*):**

    Baccalaureate ☐   Master's ☒   Doctoral ☐

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

    Analytics specialization prepares students to solve crucial data-driven business problems and assist with analytics-driven decision making that is needed in the work force as the progression of big data jobs continues to grow.

3. **Provide a justification for the specialization, 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.*

    Analytics is an existing program in the College of Business and Information Systems (BIS) at DSU. There are expert faculty available to offer courses in this field. Adding Analytics specialization to the MSIS program can provide students one more specialization choice and convenience for switching programs between MSIS and MSA programs.

4. **List the proposed curriculum for the specialization (including the requirements for completing the major – <mark>*highlight courses in the specialization*</mark>):**

Prefix	Number	Course Title *(add or delete rows as needed)*	Credit Hours	New (yes, no)
INFS	732	Emerging Technologies and Issues	3	No
INFS	768	Predictive Analytics for Decision Making	3	No
INFS	770	Advanced Data Mining Applications OR	3	No
INFS	772	Programming for Data Analytics		

Total number of hours required for completion of specialization | 9
Total number of hours required for completion of major | 30
Total number of hours required for completion of degree | 30

5. **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., UC Sioux Falls, Capital

University Center, Black Hills State University-Rapid City, etc.) or deliver the entire specialization through distance technology (e.g., as an on-line program)?

	Yes/No	*Intended Start Date*
On campus	Yes	Choose an item. Choose an item.

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

	Yes/No	*If Yes, identify delivery methods* *Delivery methods are defined in AAC Guideline 5.5.*	*Intended Start Date*
Distance Delivery (online/other distance delivery methods)	Yes	015	**Fall 2023**

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

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

6. **Additional Information:** *Additional information is optional. Use this space to provide pertinent information not requested above. Limit the number and length of additional attachments. Identify all attachments with capital letters. Letters of support are not necessary and are rarely included with Board materials. The University may include responses to questions from the Board or the Executive Director as appendices to the original proposal where applicable. Delete this item if not used.*