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| S:\Communications\Logos and photos\SDBORLogos\final_sdbor_webreadyBW_trans.gif | **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.

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| --- | --- |
| **UNIVERSITY:** | DSU |
| **TITLE OF PROPOSED SPECIALIZATION:** | **Health Informatics** |
| **NAME OF DEGREE PROGRAM IN WHICH SPECIALIZATION IS OFFERED:** | **BS Computer Information Systems** |
| **BANNER PROGRAM CODE:** | **DCIS** |
| **INTENDED DATE OF IMPLEMENTATION:** | **5/19/2025** |
| **PROPOSED CIP CODE:** | **11.0401** |
| **UNIVERSITY DEPARTMENT:** | **College of Business and Information Systems** |
| **BANNER DEPARTMENT CODE:** | **DBIS** |
| **UNIVERSITY DIVISION:** | **Information Systems** |
| **BANNER DIVISION CODE:** | **DINFS** |

[x] **Please check this box to confirm that:**

* The individual preparing this request has read [AAC Guideline 2.6](https://www.sdbor.edu/administrative-offices/academics/academic-affairs-guidelines/Documents/2_Guidelines/2_6_Guideline.pdf), 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.*

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| --- | --- | --- |
| A picture containing text  Description automatically generated |  | 10/21/2024 |
| Institutional Approval Signature*President or Chief Academic Officer of the University* |  | 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. **Level of the Specialization (*place an “X” in the appropriate box*):**

|  |  |  |
| --- | --- | --- |
| Baccalaureate |[x]  Master’s |[ ]  Doctoral |[ ]

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

This specialization develops health informatics skills for those students who have a high degree of interest in both computer information systems and healthcare.

1. **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.*

The specialization will offer a unique opportunity to develop workforce skillsets to manage and support electronic health records enterprise operations. High school and college students interested in computers and healthcare will have a program option without having to double major. Inactivating the AS and BS in HIIM at DSU will leave a gap in the workforce that can be partially filled through this specialization.

With the rise of big data, the federally mandated transition to electronic health records, and the increase in the number of people with health insurance, there’s a growing need to organize and analyze health information. The goal of the transition to digital technology is to provide a higher level of health care more efficiently. As a result, health informatics careers are burgeoning. These careers focus on how health information is captured, transmitted and used in a variety of health care settings. Most jobs will include gathering and analyzing data, designing workflows, measuring impact, educating and training end users, managing systems and managing discussions between end users and software developers.

The health informatics specialization in the BS in Computer Information Systems will be understood by major healthcare employers, such as Sanford Health, Avera, and Monument Health to provide graduates with the information systems skills as well as the knowledge of healthcare data and electronic health records needed to fill roles in their IT departments.



**1**





**2**



**3**





**4**



**5**

**Sources:**

1[**https://www.bls.gov/ooh/management/medical-and-health-services-managers.htm#tab-6**](https://www.bls.gov/ooh/management/medical-and-health-services-managers.htm#tab-6)

**2**[**https://dlr.sd.gov/lmic/menu\_projections\_occupation\_statewide.aspx**](https://dlr.sd.gov/lmic/menu_projections_occupation_statewide.aspx)

3[**https://www.bls.gov/ooh/management/computer-and-information-systems-managers.htm#tab-6**](https://www.bls.gov/ooh/management/computer-and-information-systems-managers.htm#tab-6)

4[**https://dlr.sd.gov/lmic/documents/projections/occupational\_projections\_2022\_2032\_statewide\_south\_dakota.xlsx**](https://dlr.sd.gov/lmic/documents/projections/occupational_projections_2022_2032_statewide_south_dakota.xlsx)

**5**[**https://www.bls.gov/oes/current/oes113021.htm#st**](https://www.bls.gov/oes/current/oes113021.htm#st)

1. **List the proposed curriculum for the specialization (including the requirements for completing the major – *highlight courses in the specialization*):**

All students will complete the core course in the Bachelor of Computer Information Systems program. CSC 150 - Computer Science I is recommended over CIS 123 / CIS 130 in the CIS core. BIOL 106 Human Health and Biology (2 credits) and lab (1 credit) is recommended for Natural Science SGE for students in HI Specialization.

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| --- | --- | --- | --- | --- |
| **Prefix** | **Number** | **Course Title***(add or delete rows as needed)* | **Credit Hours** | **New****(yes, no)** |
| **Required Core** | **66** |  |
| ACCT | 210 | Principles of Accounting I | 3 | No |
| BADM | 220 | Business Statistics | 3 | No |
| BADM | 344 | Managerial Communications | 3 | No |
| BADM | 350 | Legal Environment of Business | 3 | No |
| BADM | 360 | Organization and Management | 3 | No |
| BADM | 370 | Marketing | 3 | No |
| CIS  | 251 | Business Applications Programming | 3 | No |
| CIS | 325 | Management Information Systems | 3 | No |
| CIS  | 332 | Structured Systems Analysis and Design | 3 | No |
| CIS | 338 | Project Management | 3 | No |
| CIS | 427 | Information Systems Planning and Management | 3 | No |
| CIS  | 484 | Database Management Systems | 3 | No |
| CSC | 105 | Introduction to Computers | 3 | No |
| CSC | 134 | Introduction to Cyber | 3 | No |
| CSC | 150 | Computer Science I | 3 | No |
| CSC | 163 | Hardware, Virtualization, and Data Communication | 3 | No |
| CSC | 285 | Networking I | 3 | No |
| ECON | 201 | Principles of Microeconomics | 3 | No |
| CIS | 206/207/208/210 | Choose 3: Advanced Applications/Advanced Applications: Spreadsheets/ Advanced Applications: Database/ Quickbooks  | 3 | No |
| Choose 9 credits from list (add HIM 130, HIM 265, and HIM 440) | 9 | No |
| Choose one specialization | 18 |  |
| Electives | 6 |  |
| **Health Informatics Specialization** | 18 |  |
| HIM | 150 | Introduction to Digital Health Informatics & Information Management | 3 | No |
| HIM  | 225 | Digital Health Information Systems | 3 | No |
| HIM | 364 | Healthcare Standards and Interoperability | 3 | No |
| HIM | 380 | Digital Health Data Analytics | 3 | No |
| HIM  | 444 | Digital Health Technology | 3 | No |
| HIM | 450 | Digital Health Informatics & Information Management Research | 3 | No |

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| Total number of hours required for completion of specialization |  | 18 |
| Total number of hours required for completion of major |  | 66 |
| Total number of hours required for completion of degree |  | 120 |

1. **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)?**

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| --- | --- | --- |
|  | **Yes/No** | ***Intended Start Date*** |
| **On campus** | Yes | **Fall 2025** |

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| --- | --- | --- | --- |
|  | **Yes/No** | ***If Yes, list location(s)*** | ***Intended Start Date*** |
| **Off campus** | No |  |  |

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|  | **Yes/No** | ***If Yes, identify delivery methods****Delivery methods are defined in* [*AAC Guideline 5.5*](https://www.sdbor.edu/administrative-offices/academics/academic-affairs-guidelines/Documents/5_Guidelines/5_5_Guideline.pdf)*.* | ***Intended Start Date*** |
| **Distance Delivery (online/other distance delivery methods)** | Yes | X15 online asynchronous | **Fall 2025**  |

**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. |

1. **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.*