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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 |
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| --- | --- |
| **UNIVERSITY:** | DSU |
| **TITLE OF PROPOSED SPECIALIZATION:** | Information Assurance |
| **NAME OF DEGREE PROGRAM IN WHICH SPECIALIZATION IS OFFERED:** | M.S. in Information Systems |
| **INTENDED DATE OF IMPLEMENTATION:** | 5/4/2018 |
| **PROPOSED CIP CODE:** | 11.0401 |
| **UNIVERSITY DEPARTMENT:** | College of Business & Info Systems |
| **UNIVERSITY DIVISION:** | Information Systems |

**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.*

|  |  |  |
| --- | --- | --- |
| C:\Users\slaughts\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Dr. McKay Signature.jpg |  | 4/4/2018 |
| Institutional Approval Signature*President or Chief Academic Officer of the University* |  | Date |

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| --- |
|  |

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

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

1. **What is the nature/purpose of the proposed specialization?**

The MSIS major includes six core courses and one information integration course as well as three 9-credit specializations. The College is proposing a new specialization in Information Assurance (IA).

Information assurance is the practice of assuring information and managing risks related to the use, processing, storage, and transmission of information or data and the systems and processes used for those purposes. Individuals with IA skills can design, plan, and deploy changes to current software architecture. While there are several analyst positions in different IT fields, these job opportunities focus mainly on security and risk assessment.

1. **Provide a justification for the specialization, including the potential benefits to students and potential workforce demand for those who graduate with the credential.[[1]](#footnote-1)**

The IA specialization will provide MSIS students more options in their study, increases their knowledge base and marketability.

Typical job titles for those with IA skills include IT Business Analyst, Information Architect, Information Assurance Manager, IT Manager, Chief Security Officer or Chief Technology Officer. The demand for IA security skills continues to grow, as evidenced by the following employment outlook data from the U.S. Department of Labor.

**United States Department of Labor
Occupational Estimates and Projections, 2016-2026**

**Selected Occupations Related to Information Assurance**

|  |  |  |  |
| --- | --- | --- | --- |
| **Occupation** | **Employment Change 2016-2026 (thousands)** | **Employment Change 2016-2026 (percent)** | **2016 Median Annual Wage** |
| Computer & Information Systems Managers | 44.2 | 12.0 | 135,800 |
| Computer Network Architect | 10.5 | 6.5 | 101,210 |
| Computer System Analysts | 54.4 | 9.1 | 87,220 |
| Database Administrators | 13.7 | 11.5 | 84,950 |
| Information Security Analysts | 28.5 | 28.5 | 92,600 |
| Network and Computer Systems Administrators | 24.0 | 6.1 | 79,700 |

Source: Estimates and projections from United States Department of Labor
<https://data.bls.gov/projections/occupationProj>

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Prefix** | **Number** | **Course Title***(add or delete rows as needed)* | **Credit Hours** | **New****(yes, no)** |
| INFA | 701 | Principles of Information Assurance | 3 | No |
| INFA | 713 | Managing Security Risks | 3 | No |
| Choose one course from the following: |  | Choose an item. |
| INFA | 715 | Data Privacy | 3 | No |
| INFA | 742 | Ethics and Information Technology | 3 | No |
| INFA | 745 | Compliance and Audit | 3 | Yes |
| 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 |

1. **Delivery Location[[2]](#footnote-2)**

**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 program through distance technology (e.g., as an on-line program)?**

|  |  |  |
| --- | --- | --- |
|  | **Yes/No** | ***Intended Start Date*** |
| **On campus** | Yes | **Fall 2018** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **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[[3]](#footnote-3)*** | ***Intended Start Date*** |
| **Distance Delivery (online/other distance delivery methods)** | Yes | 018 | **Fall 2018** |

**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)? [[4]](#footnote-4)**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Yes/No** | ***If Yes, identify delivery methods*** | ***Intended Start Date*** |
| **Distance Delivery (online/other distance delivery methods)** | Choose an item. |  | 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.*
1. 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. [↑](#footnote-ref-1)
2. The Higher Learning Commission (HLC) and Board of Regents policy requires approval for a university to offer programs off-campus and through distance delivery. [↑](#footnote-ref-2)
3. 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). [↑](#footnote-ref-3)
4. This question responds to HLC definitions for distance delivery. [↑](#footnote-ref-4)