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| S:\Communications\Logos and photos\SDBORLogos\final_sdbor_webreadyBW_trans.gif | **SOUTH DAKOTA BOARD OF REGENTS**  ACADEMIC AFFAIRS FORMS |
| Minor Program Modification |
|  |  |

Use this form to request minor changes in existing programs (majors, minors, certificates, or specializations). The university Vice President for Academic Affairs approves minor program modifications and they are included in the Annual Minor Program Modification Summary form.

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| --- | --- |
| **UNIVERSITY:** | DSU |
| **PROGRAM TITLE:** | **PhD Information Systems – Healthcare Information Systems Specialization;**  **Healthcare Information Systems Research Electives** |
| **CIP CODE:** | **11.0401** |
| **UNIVERSITY DEPARTMENT:** | **DINFS** |
| **UNIVERSITY DIVISION:** | **DCBIS** |

**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.*

|  |  |  |
| --- | --- | --- |
|  |  | 1/25/2022 |
| Vice President of Academic Affairs or President of the University |  | Date |

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| --- |
|  |

1. **This modification addresses a change in (*place an “X” in the appropriate box*):**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Course *deletions* that do not change the nature of the program, or distribution of courses in the program, or change of total credit hours required |  | Course *additions* that do not change the nature of the program, or distribution of courses in the program, or change of total credit hours required |
|  |  |  |  |
|  | Revised courses in the program. |  |  |

1. **Effective date of change: 5/9/2022**
2. **Program Degree Level (*place an “X” in the appropriate box*):**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Associate |  | Bachelor’s |  | Master’s |  | Doctoral |  |

1. **Category (*place an “X” in the appropriate box*):**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Certificate |  | Specialization |  | Minor |  | Major |  |

1. **Primary Aspects of the Modification (*add lines or adjust cell size as needed*):**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Existing Curriculum* | | | | | *Proposed Curriculum (highlight changes)* | | | | |
| **Pref.** | **Num.** | **Title** | **Cr.**  **Hrs.** |  | | **Pref.** | **Num.** | **Title** | **Cr. Hrs.** |
| Healthcare Information Systems Specialization | | | 24 |  | | Healthcare Informaton Systems Specialization | | | 24 |
| HIMS | 744 | Data Analytics in Healthcare | 3 |  | | HIMS | 744 | Data Analytics in Healthcare | 3 |
| INFS | 820 | Current Issues Health Informatics | 3 |  | | INFS | 820 | Current Issues Health Informatics | 3 |
| INFS | 868 | Health Informatics Research | 3 |  | | INFS | 868 | Health Informatics Research | 3 |
| INFS | 890 | Seminar | 6 |  | | INFS | 890 | Seminar | 6 |
| Specialization Electives | | | 9 |  | | Specialization Electives | | | 9 |
|  |  |  |  |  | | **INFS** | **732** | **Emerging Technologies & Issues** | **3** |
| HIMS | 746 | Health Information Lifecycle Governance | 3 |  | | HIMS | 746 | Health Information Lifecycle Governance | 3 |
| HIMS | 747 | Leadership and Management Hlth Informatics | 3 |  | | HIMS | 747 | Leadership and Management Hlth Informatics | 3 |
| HIMS | 748 | Research Design in Health Informatics | 3 |  | | HIMS | 748 | Research Design in Health Informatics | 3 |
| INFA | 713 | Managing Security Risks | 3 |  | | INFA | 713 | Managing Security Risks | 3 |
| INFA | 715 | Data Privacy | 3 |  | | INFA | 715 | Data Privacy | 3 |
| INFS | 762 | Data Warehousing and Data Mining | 3 |  | | INFS | 762 | Data Warehousing and Data Mining | 3 |
| INFS | 764 | Information Retrieval | 3 |  | | INFS | 764 | Information Retrieval | 3 |
| INFS | 766 | Advanced Database | 3 |  | | INFS | 766 | Advanced Database | 3 |
| INFS | 830 | Decision Support Systems | 3 |  | | INFS | 830 | Decision Support Systems | 3 |
| INFS | 834 | Knowledge Management | 3 |  | | INFS | 834 | Knowledge Management | 3 |
|  |  | Total Hours Required | 9 |  | |  |  | Total Hours Required | 9 |
|  |  |  |  |  | |  |  |  |  |
| Research Electives – HIS Specialization | | | 9 |  | | Research Electives – HIS Specialization | | | 9 |
|  |  |  |  |  | | HIMS | 701 | Foundations in Healthcare Information | 3 |
|  |  |  |  |  | | HIMS | 702 | Foundations in Health Information Classification Systems | 3 |
|  |  |  |  |  | | HIMS | 745 | Legal and Ethical Aspects of Health Informatics | 3 |
| ~~HIMS~~ | ~~746~~ | ~~Health Information Lifecycle Governance~~ | ~~3~~ |  | |  |  |  |  |
| ~~HIMS~~ | ~~747~~ | ~~Leadership and Management for Health Informatics~~ | ~~3~~ |  | |  |  |  |  |
| ~~HIMS~~ | ~~748~~ | ~~Research Design in Health Informatics~~ | ~~3~~ |  | |  |  |  |  |
| ~~INFA~~ | ~~713~~ | ~~Managing Security Risks~~ | ~~3~~ |  | |  |  |  |  |
| ~~INFA~~ | ~~715~~ | ~~Data Privacy~~ | ~~3~~ |  | |  |  |  |  |
| ~~INFS~~ | ~~762~~ | ~~Data Warehousing and Data Mining~~ | ~~3~~ |  | |  |  |  |  |
| ~~INFS~~ | ~~764~~ | ~~Information Retrieval~~ | ~~3~~ |  | |  |  |  |  |
| ~~INFS~~ | ~~766~~ | ~~Advanced Database~~ | ~~3~~ |  | |  |  |  |  |
|  |  |  |  |  | | INFS | 732 | Emerging Technologies & Issues | 3 |
| INFS | 830 | Decision Support Systems | 3 |  | | INFS | 830 | Decision Support Systems | 3 |
| INFS | 834 | Knowledge Management | 3 |  | | INFS | 834 | Knowledge Management | 3 |

1. **Explanation of the Change:**

Provide the INFS 732 Course as an elective opportunity for Specialization Electives for Healthcare Information Systems Specialization.

This change impacts only the PhD IS research specialization electives in the healthcare information systems specialization. Students can select the healthcare information systems specialization without having taken the MSIS Health Information Systems specialization, meaning they may have no prior US healthcare knowledge or experience. In order to better prepare students for healthcare, the choices for electives are being re-aligned and limited to five courses which provide critical content to students selecting the health information systems specialization.

Alternatives for substitutions include the following in students have already completed the elective choices in the selection or have prior knowledge/experience in US healthcare:

Students who have taken HIMS 701 in the MSIS program or have work experience or training as a US healthcare clinician or healthcare information/informatics professional, can substitute HIMS 742 Healthcare Informatics, Information Systems, and Technology 3 credits. If both courses have been completed, an additional option for substitution is HIMS 758 Workflow and Usability Optimization in Health Informatics 3 credits.

HIMS 702 was added in 2019-20 as a new course. It provides the foundation that PhD IS HIS professionals need to understand the basics of medical terminology, anatomy and physiology and disease processes encountered in healthcare settings. Students will be better prepared to understand and analyze the meaning of data in healthcare settings with a basic understanding of these topics. The substitution for HIMS 702 is HIMS 743 Advanced Topics in Health Informatics and Health Information Management 3 credits. An additional substitution option if both courses have already been completed is HIMS 751 Classification Systems and the Revenue Cycle 3 credits.

Students who have completed undergraduate or graduate level courses in HIPAA and ethics in healthcare can substitute HIMS 745 Legal and Ethical Aspects of Health Informatics with HIMS 750 Exploration of Population Health Data in Health Informatics 3 credits.