

**South Dakota Board of Regents**

**EXISTING PROGRAM: SUBSTANTIVE PROGRAM MODIFICATION**

This form is used to request substantive changes in already existing programs (majors, minors, specializations).

**1. INSTITUTION:** Dakota State University

**2. CURRENT PROGRAM NAME:** Master of Science in Information Systems

**3. THIS PROPOSAL DEALS WITH A CHANGE IN:**

*Distribution of Credits*

_____ total credits required within the discipline	_____ Program name
_____ total credits of supportive course work	_____ Existing specialization
_____ total credits of elective course work	<u>  X  </u> Addition of specialization
_____ total credits required for program	_____ Other (explain)

**4. EFFECTIVE DATE OF CHANGE:**   Fall 2005  

**5. LEVEL:**

\_\_\_\_\_ Certificate  
 \_\_\_\_\_ Associate Degree  
 \_\_\_\_\_ Bachelor's Degree  
  X   Master's Degree  
 \_\_\_\_\_ Doctoral Degree

**6. CATEGORY:**

\_\_\_\_\_ Minor  
 \_\_\_\_\_ Major  
  X   Specialization

**7. PRIMARY ASPECTS OF THE MODIFICATION:**

Existing Curriculum				Proposed Curriculum (Highlight Changes)			
Current Program Name:				Proposed Program Name:			
Pre	Num	Title	Cr Hrs	Pre	Num	Title	Cr Hrs
Core			21	Core			21
INFS	720	Systems Analysis and Design Using Case-based Tools	3	INFS	720	Systems Analysis and Design Using Case-based Tools	3
INFS	724	Project and Change Management	3	INFS	724	Project and Change Management	3
INFS	730	Programming for E Commerce	3	INFS	730	Programming for E Commerce	3
INFS	750	Telecommunications Technology & Network Management	3	INFS	750	Telecommunications Technology & Network Management	3

INFS	760	Database Design and Performance Analysis	3	INFS	760	Database Design and Performance Analysis	3
INFS	780	Information Technology Strategy and Policy	3	INFS	780	Information Technology Strategy and Policy	3
INFS	788	IS Project	3	INFS	788	IS Project	3
Specialization courses			9	<b>Specialization: Healthcare Information Systems</b>			<b>9</b>
				INFS	742	Healthcare Information Infrastructure	3
				INFS	744	Healthcare Information Analysis	3
				INFS	762	Data Warehousing and Data Mining	3

Total number of hours required for degree **30**

Total number of hours required for degree **30**

### 8. EXPLANATION OF THE CHANGE:

This change will add a specialization in information systems in healthcare to the existing MSIS degree. Healthcare is a large (14% of GDP) and growing industry that is experiencing major transformation in its information technology base. The Health Insurance Portability and Accountability Act of 1996 (HIPAA) and similar laws and regulations are motivating development of standardized healthcare data systems, with increasing emphasis on privacy and security of electronic data. In addition, organizational mergers and system-wide information systems are requiring large-scale information technology (IT) projects. Increased use of online healthcare information resources and electronic access to health records (EHR) create a need for increased information technology support in the healthcare industry. A specialization in healthcare information systems (HIM) will allow IT to address the unique needs of the industry, such as patient databases, billing processes, clinical decision support, electronic medical record information, and medical imaging.