

**ACADEMIC AFFAIRS COUNCIL**

**AGENDA ITEM: 3 – B (2)**

**DATE: March 31, 2016**

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**SUBJECT: Course Modifications – DSU**

Dakota State University has submitted the following course requests. These are under review by the System Vice President for Academic Affairs. Upon approval, the proposals will move forward to the Executive Director for consideration and be reported on the Interim Actions report for the May Board meeting.

New Course Requests

- 1) HIMS 758 Workflow and Usability Optimization Health Info
- 2) HIMS 794 Internship

Revised Course Request: Common Course

- 1) CSC 705 Design and Analysis of Algorithms
- 2) CSC 710 Structure and Design Programming Language
- 3) CSC 720 Theory of Computation

Revised Course Request: Unique Course

- 1) HIMS 701, 742, 744, 745, 746, 747, 748, 788, 789, 792 and 820

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**RECOMMENDED ACTION**

Approve and move forward to the Executive Director upon final review and approval by the System Vice President for Academic Affairs.

**SOUTH DAKOTA BOARD OF REGENTS**  
**New Course Request**

<b>DSU</b>	<b>BIS</b>		
Institution	Division/Department	Institutional Approval Signature	Date

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**Section 1. Course Title and Description**

If the course contains a lecture and laboratory component, identify both the lecture and laboratory numbers (xxx and xxxL) and credit hours associated with each. Provide the complete description as it will appear in the system common or unique database, including pre-requisites, co-requisites, and registration restrictions.

Prefix & No.	Course Title	Credits
HIMS 758	Workflow and Usability Optimization in Health Informatics	3
Course Description: This course explores workflow and process reengineering techniques used in the study of human factors and usability in health informatics. Workflow topics include process mapping and workflow management. Methods for studying the computer-human interaction in healthcare, including optimal interface designs for health informatics software, will be explored using human factors engineering principles and usability testing techniques. Prerequisite(s): HIMS 742		

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**Section 2. Review of Course**

Will this be a common or unique course? (select the appropriate option below)

This course will be a unique course. (Go to Section 3.)

This course will be a common course. (Complete below, then go to Section 3.)

*Indicate universities that are proposing this common course:*

BHSU    DSU    NSU    SDSMT    SDSU    USD

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**Section 3. Other Course Information**

1. Are there instructional staffing impacts?

No. Replacement of \_\_\_\_\_ which is  
(prefix, number, name of course, credits)  
being deleted. Effective date of deletion: \_\_\_\_\_

No, schedule management. Explain:

Yes. Specify:

2. Existing program in which course will be offered: Master of Science in Health Informatics
3. Proposed instructional method: Lecture (R)  
 (may be found at <http://www.sdbor.edu/services/academics/AAC/guidelines.htm> )
- Provide a brief justification:
4. Proposed primary delivery: 001  
 (may be found at <http://www.sdbor.edu/services/academics/AAC/guidelines.htm> )
5. Term in which change will be effective: Fall 2016
6. Can this course be repeated for additional credit?  
 \_\_\_\_\_ Yes, total credit limit: \_\_\_\_\_ X No.
7. Will the grade for this course be limited to S/U (pass/fail)? \_\_\_\_\_ Yes \_\_\_\_\_ X No
8. Will section enrollments be capped?  
 \_\_\_\_\_ Yes, maximum per section \_\_\_\_\_ X No
9. Will this course be equated (i.e. considered the same course for degree completion) with any other unique or common course in the course database? \_\_\_\_\_ Yes \_\_\_\_\_ X No
- If yes, indicate the course(s) to which it will be equated.  
 \_\_\_\_\_
10. Is this prefix already approved for your university? \_\_\_\_\_ X Yes \_\_\_\_\_ No  
 If no, provide a brief justification:

#### **Section 4. To be completed by Academic Affairs**

1. University department code: DHIMS
2. Proposed CIP code: 51.2706  
 Is this a new CIP code for this university? \_\_\_\_\_ Yes \_\_\_\_\_ X No

**SOUTH DAKOTA BOARD OF REGENTS**  
**New Course Request**

DSU	BIS		
Institution	Division/Department	Institutional Approval Signature	Date

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**Section 1. Course Title and Description**

If the course contains a lecture and laboratory component, identify both the lecture and laboratory numbers (xxx and xxxL) and credit hours associated with each. Provide the complete description as it will appear in the system common or unique database, including pre-requisites, co-requisites, and registration restrictions.

Prefix & No.	Course Title	Credits
HIMS 794	Internship	3
Course Description: Field-based Learning experience for which the student may or not be paid. Students gain practical experience related to health informatics concepts. Prior approval of the internship is required.		

**Section 2. Review of Course**

Will this be a common or unique course? (select the appropriate option below)

This course will be a unique course. (Go to Section 3.)

This course will be a common course. (Complete below, then go to Section 3.)

*Indicate universities that are proposing this common course:*

BHSU  DSU  NSU  SDSMT  SDSU  USD

**Section 3. Other Course Information**

1. Are there instructional staffing impacts?

No. Replacement of \_\_\_\_\_ which is  
(prefix, number, name of course, credits)  
being deleted. Effective date of deletion: \_\_\_\_\_

No, schedule management. Explain:

Yes. Specify:

2. Existing program in which course will be offered: Master of Science in Health Informatics

3. Proposed instructional method: Internship/Practicum  
 (may be found at <http://www.sdbor.edu/services/academics/AAC/guidelines.htm> )

Provide a brief justification:

4. Proposed primary delivery: 001  
 (may be found at <http://www.sdbor.edu/services/academics/AAC/guidelines.htm> )

5. Term in which change will be effective: Fall 2016

6. Can this course be repeated for additional credit?  
 \_\_\_\_\_ Yes, total credit limit: \_\_\_\_\_ X No.
7. Will the grade for this course be limited to S/U (pass/fail)? \_\_\_\_\_ Yes \_\_\_\_\_ X No
8. Will section enrollments be capped?  
 \_\_\_\_\_ Yes, maximum per section \_\_\_\_\_ X No
9. Will this course be equated (i.e. considered the same course for degree completion) with any other unique or common course in the course database? \_\_\_\_\_ Yes \_\_\_\_\_ X No

If yes, indicate the course(s) to which it will be equated.

10. Is this prefix already approved for your university? \_\_\_\_\_ X Yes \_\_\_\_\_ No  
 If no, provide a brief justification:

#### **Section 4. To be completed by Academic Affairs**

1. University department code: DHIMS
2. Proposed CIP code: 51.2706  
 Is this a new CIP code for this university? \_\_\_\_\_ Yes \_\_\_\_\_ X No

## SOUTH DAKOTA BOARD OF REGENTS

### Revised Course Request: Common Course

This form is to be used to request a substantive change in a common course. Representatives from all institutions offering the common course must participate in developing the proposed revisions to a common course. Signatures from all institutions offering the common course must be included on the final form submitted to AAC.

DSU	Computing		
Institution	Division/Department	Institutional Approval Signature	Date
Institution	Form Initiator	Dean's Approval Signature	Date
Institution	Division/Department	Institutional Approval Signature	Date

**Indicate (X) the universities that offer the common course.**

\_\_\_\_\_ BHSU  DSU \_\_\_\_\_ NSU \_\_\_\_\_ SDSMT  SDSU  USD

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### **Section 1. Course Title and Description**

If changing from a course that previously had only a lecture or laboratory component to a composite course, identify both the course and laboratory numbers (xxx and xxxL) and credit hours associated with each.

Prefix & No.	Course Title	Credits
CSC 705	Design and Analysis of Algorithms	3
Course Description as it currently appears in the system common course database: Design and analysis of algorithms to determine their time and space requirements. The study of efficient algorithms for various computational problems. Analysis of specific algorithms for internal sorting, hashing, and string search. Sorting manipulation of data structures, graphs, matrix multiplication, the Fast Fourier Transform, arithmetical operations and pattern matching. Study and implication of advanced topics on lists, stacks, trees, sets and dynamic allocation.		

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### **Section 2. Modification(s) Requested**

Check all revisions that apply and provide detailed information in the Current and Revised fields below. Provide the complete course description as it currently appears in the system common course database. If changing a course that previously had only a lecture or laboratory component to a composite course, identify both the course and laboratory numbers (xxx and xxxL) and credit hours associated with each.

	<b><u>Current</u></b>	to	<b><u>New</u></b>
_____	Prefix Change from _____		_____
	Indicate any universities for which this must be added as a new prefix:		
	_____ BHSU _____ DSU _____ NSU _____ SDSMT _____ SDSU _____ USD		
_____	Course Number change from _____		_____
_____	Course Title change from _____		_____
_____	Credit Hours change from _____		_____
_____	Course content/description change to:		
<input checked="" type="checkbox"/>	Prerequisites	_____ CSC 300 _____	to _____ None (for DSU) _____
_____	Corequisites	_____	to _____
_____	Registration Restriction	_____	to _____
_____	Course deletion		to _____
	Indicate the universities which will be deleting the course:		
	_____ BHSU _____ DSU _____ NSU _____ SDSMT _____ SDSU _____ USD		

Justification for all changes noted above: DSU requests that CSC 300 be removed for DSU's students.

## SOUTH DAKOTA BOARD OF REGENTS

### Revised Course Request: Common Course

This form is to be used to request a substantive change in a common course. Representatives from all institutions offering the common course must participate in developing the proposed revisions to a common course. Signatures from all institutions offering the common course must be included on the final form submitted to AAC.

DSU	Computing		
Institution	Division/Department	Institutional Approval Signature	Date
Institution	Form Initiator	Dean's Approval Signature	Date
Institution	Division/Department	Institutional Approval Signature	Date

**Indicate (X) the universities that offer the common course.**

\_\_\_\_\_ BHSU      DSU   \_\_\_\_\_ NSU   \_\_\_\_\_ SDSMT      SDSU   \_\_\_\_\_ USD

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### **Section 1. Course Title and Description**

If changing from a course that previously had only a lecture or laboratory component to a composite course, identify both the course and laboratory numbers (xxx and xxxL) and credit hours associated with each.

Prefix & No.	Course Title	Credits
CSC 710	Structure and Design Programming Language	3
Course Description as it currently appears in the system common course database: Evolution of concepts in programming languages. Data and control abstraction. Run-time effects of binding, scope and extent; structure of ALGOL-like and interpretive languages. Data types, problem areas and implementation models. Control structures, exception handling, concurrency. Functional programming.		

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### **Section 2. Modification(s) Requested**

Check all revisions that apply and provide detailed information in the Current and Revised fields below. Provide the complete course description as it currently appears in the system common course database. If changing a course that previously had only a lecture or laboratory component to a composite course, identify both the course and laboratory numbers (xxx and xxxL) and credit hours associated with each.



	<b><u>Current</u></b>	to	<b><u>New</u></b>
_____	Prefix Change from _____		_____
	Indicate any universities for which this must be added as a new prefix:		
	_____ BHSU _____ DSU _____ NSU _____ SDSMT _____ SDSU _____ USD		
_____	Course Number change from _____		_____
_____	Course Title change from _____		_____
_____	Credit Hours change from _____		_____
_____	Course content/description change to:		
<input checked="" type="checkbox"/>	Prerequisites _____		CSC 300 to _____
_____	Corequisites _____		_____ to _____
_____	Registration Restriction _____		_____ to _____
_____	Course deletion _____		_____ to _____
	Indicate the universities which will be deleting the course:		
	_____ BHSU _____ DSU _____ NSU _____ SDSMT _____ SDSU _____ USD		

Justification for all changes noted above: DSU requests that CSC 300 be removed for DSU's students.

## SOUTH DAKOTA BOARD OF REGENTS

### Revised Course Request: Common Course

This form is to be used to request a substantive change in a common course. Representatives from all institutions offering the common course must participate in developing the proposed revisions to a common course. Signatures from all institutions offering the common course must be included on the final form submitted to AAC.

DSU	Computing		
Institution	Division/Department	Institutional Approval Signature	Date
Institution	Form Initiator	Dean's Approval Signature	Date
Institution	Division/Department	Institutional Approval Signature	Date

**Indicate (X) the universities that offer the common course.**

\_\_\_\_\_ BHSU    DSU   \_\_\_\_\_ NSU   \_\_\_\_\_ SDSMT    SDSU   \_\_\_\_\_ USD

### **Section 1. Course Title and Description**

If changing from a course that previously had only a lecture or laboratory component to a composite course, identify both the course and laboratory numbers (xxx and xxxL) and credit hours associated with each.

Prefix & No.	Course Title	Credits
CSC 720	Theory of Computation	3
Course Description as it currently appears in the system common course database:		
Formal models of computation. Recursive function theory, computable functions, decidable and enumerable sets, unsolvable programs, correctness of programs, undecidability and incompleteness and complexity of computation.		

### **Section 2. Modification(s) Requested**

Check all revisions that apply and provide detailed information in the Current and Revised fields below. Provide the complete course description as it currently appears in the system common course database. If changing a course that previously had only a lecture or laboratory component to a composite course, identify both the course and laboratory numbers (xxx and xxxL) and credit hours associated with each.

**Current**

**New**

\_\_\_\_\_ Prefix Change from \_\_\_\_\_ to \_\_\_\_\_  
 Indicate any universities for which this must be added as a new prefix:  
 \_\_\_\_\_ BHSU \_\_\_\_\_ DSU \_\_\_\_\_ NSU \_\_\_\_\_ SDSMT \_\_\_\_\_ SDSU \_\_\_\_\_ USD

\_\_\_\_\_ Course Number change from \_\_\_\_\_ to \_\_\_\_\_

\_\_\_\_\_ Course Title change from \_\_\_\_\_ to \_\_\_\_\_

\_\_\_\_\_ Credit Hours change from \_\_\_\_\_ to \_\_\_\_\_

\_\_\_\_\_ Course content/description change to:

Prerequisites \_\_\_\_\_ CSC 300 to \_\_\_\_\_ None (for DSU)

\_\_\_\_\_ Corequisites \_\_\_\_\_ to \_\_\_\_\_

\_\_\_\_\_ Registration Restriction \_\_\_\_\_ to \_\_\_\_\_

\_\_\_\_\_ Course deletion \_\_\_\_\_ to \_\_\_\_\_

Indicate the universities which will be deleting the course:  
 \_\_\_\_\_ BHSU \_\_\_\_\_ DSU \_\_\_\_\_ NSU \_\_\_\_\_ SDSMT \_\_\_\_\_ SDSU \_\_\_\_\_ USD

Justification for all changes noted above: DSU requests that CSC 300 be removed for DSU's students.

## SOUTH DAKOTA BOARD OF REGENTS Revised Course Request: Unique Course

This form is to be used to request a substantive change in a unique course.

DSU	College of BIS		
Institution	Division/Department	Institutional Approval Signature	Date
Form Initiator		Dean's Approval Signature	Date

### Section 1. Current Course Title and Description

If changing from a course that previously had only a lecture or laboratory component to a composite course, identify both the course and laboratory numbers (xxx and xxxL) and credit hours associated with each.

Prefix & No.	Course Title	Credits
HIMS 701	Intro Healthcare Information	3
HIMS 742	Healthcare Info Infrastructure	3
HIMS 744	Healthcare Info Analysis	3
HIMS 745	Legal Issues Health Informatics	3
HIMS 746	Data Management Health Informatics	3
HIMS 747	Business of Health Informatics	3
HIMS 748	IS Apps Healthcare Research	3
HIMS 788	Master's Research Prob/Project	3
HIMS 789	Master Research/Project Sustaining	0
HIMS 791	Independent Study	1-3
HIMS 792	Topics	1-3
HIMS 820	Current Issues Health Informatics	3

### Section 2. Modification(s) Requested

**1. This modification will include (check all that apply):**

- A change in course description/subject matter content (including pre- and/or co-requisites and/or registration restrictions)
- A change in instructional method
- Current* \_\_\_\_\_ *Revised* \_\_\_\_\_
- May be found <http://www.sdbor.edu/services/academics/AAC/guidelines.htm>
- at:

