SOUTH DAKOTA BOARD OF REGENTS
ACADEMIC AFFAIRS FORMS

Substantive Program Modification Program

Use this form to request minor changes in existing programs (majors, minors, certificates, or specializations).

UNIVERSITY:	DSU
CURRENT PROGRAM TITLE:	**BS in Cyber Operations**
CIP CODE:	
UNIVERSITY DEPARTMENT:	
UNIVERSITY DIVISION:	**College of Computing**

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.

Click here to enter a date.

_____   _____
Vice President of Academic Affairs or   Date
President of the University

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

   ☒ Total credits required within the discipline   ☐ Total credits of supportive course work

   ☒ Total credits of elective course work   ☐ Total credits required for program

   ☐ Program name   ☐ Existing specialization

   ☐ CIP Code   ☐ Other (explain below)

2. **Effective date of change: Fall 2017**

3. **Program Degree Level** (*place an "X" in the appropriate box*)**:**

   Associate ☐   Bachelor's ☒   Master's ☐   Doctoral ☐

4. **Category** (*place an "X" in the appropriate box*)**:**

   Certificate ☐   Specialization ☐   Minor ☐   Major ☒

Program Forms, Substantive Program Modification Form (last revised 08/2016)

5. If a name change is proposed, the change will occur (*place an "X" in the appropriate box*):

☐ On the effective date for all students

☒ On the effective date for students new to the program (enrolled students will graduate from existing program)

Proposed new name: _____

Reminder: Name changes may require updating related articulation agreements, site approvals, etc.

6. 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.**
General Education			30		General Education			30
					*Majors who test directly into MATH 201 will not need to complete MATH 102, but must take 3 credits of general electives.			
~~DSU IGR~~			~~11~~					
Required Courses			~~68~~		Required Courses			**78**
CIS	275	Web Programming I	3		CIS	275	Web Programming I	3
					CIS 321 Information Security Management or CIS 332 Systems Analysis & Design			**3**
~~CIS~~	~~332~~	~~Systems Analysis~~	~~3~~					
CIS	375	Web Programming II	3		CIS	375	Web Programming II	3
CIS	383	Networking I	3		CIS	383	Networking I	3
CIS	385	Networking II	3		CIS	385	Networking II	3
CIS	466	Survey of Enterprise Systems	3		CIS	466	Survey of Enterprise Systems	3
CIS	484	Database Mgmt Sys	3		CIS	484	Database Mgmt Sys	3
					CSC	**105**	**Intro to Computers**	**3**
					CSC	**150**	**Computer Science I**	**3**
					CSC	**234**	**Software Security**	**3**
CSC	245	Info Sec Fund	3		CSC	245	Info Sec Fund	3
CSC	250	Computer Science II	3		CSC	250	Computer Science II	3
CSC	300	Data Structures	3		CSC	300	Data Structures	3
CSC	314	Assembly Language	3		CSC	314	Assembly Language	3
CSC	328	Operating Environments	3		CSC	328	Operating Environments	3
CSC	363	HW, Virtualization, Data Com	3		CSC	363	HW, Virtualization, Data Com	3
CSC	420	Cellular & Mobile	3		CSC	420	Cellular & Mobile	3
CSC	432	Malware Analysis	3		CSC	432	Malware Analysis	3
~~CSC~~	~~434~~	~~Web Software Security~~	~~3~~					
CSC	436	Offensive Security	3		CSC	436	Offensive Security	3
CSC	438	Defensive Security	3		CSC	438	Defensive Security	3
CSC	444	Reverse Engineering	3		CSC	444	Reverse Engineering	3
CSC	456	Operating Systems	3		CSC	456	Operating Systems	3

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~~CSC~~	~~470~~	~~Software Engineering~~	~~3~~						
					MATH	**201**	**Intro to Discrete Math**		**3**
~~Math~~	~~204~~	~~Math for Cyber Ops~~	~~5~~						
					CIS/CSC 300-400 OR MATH 123 and above Elective				**9**
Electives			~~11~~		Electives				**12**

Total number of hours required for major, minor, or specialization	68	Total number of hours required for major, minor, or specialization	78
Total number of hours required for degree	120	Total number of hours required for degree	120

7. Explanation of the Change:

This proposal reflects the removal of DSU Institutional Graduation Requirements. CSC 105 and CSC 150 form the IGR are being added to the required course lists. CSC 470 and MATH 204 were replaced by Math 201 to align with program accreditation requirements. Similarly, the CIS 321 class more appropriately addresses the policy and management areas within an organization. However, we are leaving the choice of CIS 332 for transitional purposes to gradually make the move. CSC 434 content is adjusted to reduce overlap with other courses. Additionally, it is being moved to a sophomore-level course (CSC 234) to provide foundation. Students will select from upper-level CIS/CSC courses, or MATH courses 123 or above, to focus on topics of interest. Open electives increase from 11 to 12.