



**SOUTH DAKOTA BOARD OF REGENTS
ACADEMIC AFFAIRS FORMS**

Institutional Substantive Program Modification Requests

Institution: Dakota State University **Date:** 10/19/2017

Institutional representatives should provide direct links to PDF documents for each of the program modification requests represented below. All requests should be posted on the campus Curriculum and Instruction website one week prior to the Academic Affairs Council meeting where the program modification request is being considered.

<i>Program Title</i>		<i>Approval</i>
MS in Information Assurance and Computer Security		PT

Program modifications referenced above for approval have been reviewed by the Academic Affairs Council and the System Vice President for Academic Affairs and may be advanced forward for entry in Colleague. For those program modifications listed above that did not receive approval, additional clarification or justification will be necessary and should be re-routed through the review process on a separate “Institutional Substantive Program Modification Requests” form once all issues have been resolved.

Signature: System Vice President for Academic Affairs

12/8/2017

Date



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Substantive Program Modification Form

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

UNIVERSITY:	DSU
CURRENT PROGRAM TITLE:	MS Information Assurance and Computer Security
CIP CODE:	11.1003
UNIVERSITY DEPARTMENT:	
UNIVERSITY DIVISION:	Beacom College of Computer and Cyber Sciences

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.

Vice President of Academic Affairs or
President of the University

10/18/2017

Date

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

- Total credits required within the discipline
- Total credits of elective course work
- Program name
- CIP Code
- Total credits of supportive course work
- Total credits required for program
- Existing specialization
- Other (explain below)

2. Effective date of change: 8/15/2018

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

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: Masters of Science in Cyber Defense

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):

<i>Existing Curriculum</i>				<i>Proposed Curriculum (highlight changes)</i>			
Pref.	Nu m.	Title	Cr. Hrs.	Pref.	Nu m.	Title	Cr. Hrs.
INFA	701	Principles of Information Assurance	3	INFA	701	Principles of Information Assurance	3
INFA	713	Managing Security Risks	3	INFA	713	Managing Security Risks	3
INFA	715	Data Privacy	3				
INFA	720	Incident Response	3	INFA	720	Incident Response	3
INFA	721	Computer Forensics	3	INFA	721	Computer Forensics	3
INFA	723	Cryptography	3	INFA	723	Cryptography	3
INFA	735	Offensive Security	3	INFA	735	Offensive Security	3
INFA	742	Ethics in Technology	3				
INFA	745	Compliance and Audit	3				
INFS	754	Network Security and Intrusion Detection	3				
				INFA	751	Wireless Security	3
				INFA	754	Intrusion Detection	3
				INFA, CSC, INFS	Electives- 700 or 800 level as approved by advisor		6
Total number of hours required for major, minor, or specialization			30	Total number of hours required for major, minor, or specialization			30
Total number of hours required for degree			30	Total number of hours required for degree			30

7. Explanation of the Change:

Information Assurance was a term coined by the government and is traditionally understood as assessing vulnerabilities and risks in information technology systems. Cyber Defense is understood as defending computers and networks from cyber security attacks followed by investigating attacks when they occur. Our curriculum lines up closer to Cyber Defense than Information Assurance, therefore we are proposing changing the program title from Information Assurance and Computer Security to Cyber Defense. The name change will also be a powerful marketing tool for the Beacom College of Computer and Cyber Science.

With the change in name, so comes updated curriculum. The MS in Cyber Defense will remove two management based courses, INFA 742 Ethics in Technology and INFA 745 Compliance and Audit. We will also remove INFS Network Security and Intrusion Detection and create INFA 754 Intrusion Detection. Currently, we use a class from the MS Information Systems program and we request creating the Intrusion Detection course which will complement our INFA 735 Offensive Security and INFA 720 Incident Response courses.

Giving the varying backgrounds of our students, we would like to give the option of two electives (6 credits). This will allow our students to take any INFA, INFS, or CSC prefix course that is a 700-level or higher, with approval from their advisor. We believe the flexibility will be attractive to current students and prospective students.