

**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:**     **Bachelor of Science in Electronic Commerce and Computer Security**

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

*Distribution of Credits*

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

**4. EFFECTIVE DATE OF CHANGE:**       Fall 05  

**5. LEVEL:**

**6. CATEGORY:**

_____ Certificate	_____ Minor
_____ Associate Degree	<u>  X  </u> Major
<u>  X  </u> Bachelor's Degree	_____ Specialization
_____ Master's Degree	
_____ Doctoral Degree	

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

Existing Curriculum	Proposed Curriculum (Highlight Changes)
Current Program Name: <del>Electronic Commerce and Computer Security</del>	Proposed Program Name: <b>Computer and Network Security</b>
System General Education *                             30	System General Education *                             30
Institutional Graduation Requirement                     5	Institutional Graduation Requirement **             11
<del>Information Technology Literacy Requirement     9</del>	
* Majors must take ECON 201, ART 121 ( <del>required only for the Design Specialization</del> ) and MATH 102 as part of the system-wide general education requirement.	* Majors must take ECON 201 and MATH 102 as part of the system-wide general education requirement. ** <b>Majors must take CSC 150 as part of the institutional graduation requirement.</b>

Requirement Support Courses				24	Requirement Support Courses				21
ACCT	210	Principles of Accounting I	3	ACCT	210	Prin. of Accounting I	3		
ACCT	211	Principles of Accounting II	3	ACCT	211	Prin. of Accounting II	3		
BADM	220	Business Statistics	3	BADM	220	Business Statistics	3		
<del>BADM</del>	<del>310</del>	<del>Business Finance</del>	<del>3</del>						
BADM	360	Organization & Management	3	BADM	360	Organization & Mgmt	3		
<del>BADM</del>	<del>370</del>	<del>Marketing</del>	<del>3</del>						
BADM	378	Marketing for E-Commerce	3	BADM	378	Marketing for E-Comm	3		
ENGL	208	Documentation & Presentation	3	ENGL	208	Doc & Presentation	3		
				<b>MATH</b>	<b>201</b>	<b>Intro to Applied Math</b>	<b>3</b>		
<b>Required Courses</b>				<b>36</b>	<b>Required Courses</b>				<b>54</b>
<del>CIS</del>	<del>251</del>	<del>Business App. Programming</del>	<del>3</del>						
<del>—Or</del>									
CSC	250	Computer Science II		CSC	250	Computer Science II	3		
CIS	275	Web App. Programming I	3	CIS	275	Web App. Programming I	3		
<del>CIS</del>	<del>325</del>	<del>Management Info Systems</del>	<del>3</del>						
CIS	328	Operating Environments	3	CIS	328	Operating Environments	3		
CIS	332	Structured Systems Analysis & Design	3	CIS	332	Structured Systems Analysis & Design	3		
CIS	350	Comp. Hardware, Data Comm. & Networking	3	CIS	350	Comp. Hardware, Data Comm. & Networking	3		
CIS	375	Web App. Programming II	3	CIS	375	Web App. Programming II	3		
CIS	383	Networking I	3	CIS	383	Networking I	3		
CIS	385	Networking II	3	CIS	385	Networking II	3		
				<b>CIS</b>	<b>388</b>	<b>Computer Forensics</b>	<b>3</b>		
CIS	414	Computer Security Fundamentals	3	CIS	414	Computer Security Fundamentals	3		
CIS	484	Database Mgmt. Systems	3	CIS	484	Database Mgmt. Systems	3		
CIS	494	Internship		CIS	494	Internship			
Or				Or					
CIS	498	Undergraduate Research	3	CIS	498	Undergraduate Research	3		
				<b>BADM</b>	<b>456</b>	<b>Cyberlaw</b>	<b>3</b>		
				<b>CIS</b>	<b>416</b>	<b>Network Security</b>	<b>3</b>		
				<b>CIS</b>	<b>418</b>	<b>Intrusion Control &amp; Detect</b>	<b>3</b>		
				<b>CIS</b>	<b>422</b>	<b>Cryptography &amp; Info Assur</b>	<b>3</b>		
				<b>CIS</b>	<b>424</b>	<b>Internet &amp; E-Commece</b>	<b>3</b>		
				<b>CSC</b>	<b>409/509</b>	<b>Systems Programming</b>	<b>3</b>		

Choose one specialization:				15	<b>REMOVE SPECIALIZATIONS</b>			
<b>Computer Security</b>								
<del>BADM</del>	<del>456</del>	<del>Cyberlaw</del>	<del>3</del>					
<del>CIS</del>	<del>416</del>	<del>Network Security</del>	<del>3</del>					
<del>CIS</del>	<del>418</del>	<del>Computer Security Intrusion Control and Detection</del>	<del>3</del>					
<del>CIS</del>	<del>422</del>	<del>Comp. Security Cryptography and Info Assurance</del>	<del>3</del>					

CIS	424	Internet & E-Commerce	3					
<b>Design</b>								
ART	121	Design I—2D	3					
ARTD	282	2-D Design on Computers I	3					
ENGL	401	Adv. Writing	3					
MCOM	351	Web Publishing I	3					
MCOM	352	Web Publishing II	3					
MCOM	409	Info Architecture	3					
<b>Technical</b>								
CIS	340	Advanced Java Programming	3					
CIS	424	Internet and E-Commerce	3					
CIS	487	Database Programming	3					
CIS	488	Advanced Database Issues	3					
CSC	260	Object Oriented Design	3					
Electives			9	Electives				12
Recommended electives include: (Any of the courses listed in the specializations not chosen as part of the major requirements or from the list below)								
ART	122	Design II-Color	3					
ARTD	285	2-D Design on Comp II	3					
ARTD	382	3-D Design on Comp I	3					
ARTD	385	3-D Design on Comp II	3					
ARTD	431	Comp. Graphics Effects I	3					
-CIS	416	Network Security	3					
-CIS	427	Info Systems Planning & Management	3					
-CIS	488	Adv. Database Issues	3					
-CSC	206	Adv. Computer Apps*	1-3					

<b>Total number of hours required for major, minor, or specialization</b>	<b>75</b>
<b>Total number of hours required for degree</b>	<b>128</b>

<b>Total number of hours required for major, minor, or specialization</b>	<b>72</b>
<b>Total number of hours required for degree</b>	<b>128</b>

**8. EXPLANATION OF THE CHANGE:**

The E-commerce is being removed from this program and a specialization is being added in the Computer Information Systems major. This major will focus on networking and security of networks.