



**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).

<b>UNIVERSITY:</b>	DSU
<b>CURRENT PROGRAM TITLE:</b>	<b>BS in Computer Science</b>
<b>CIP CODE:</b>	
<b>UNIVERSITY DEPARTMENT:</b>	
<b>UNIVERSITY DIVISION:</b>	<b>College of Computing</b>

**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.*

<hr/> Vice President of Academic Affairs or President of the University	Click here to enter a date. <hr/> Date
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**1. This modification addresses a change in (place an "X" in the appropriate box):**

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Total credits required within the discipline | <input type="checkbox"/> Total credits of supportive course work |
| <input checked="" type="checkbox"/> Total credits of elective course work        | <input type="checkbox"/> Total credits required for program      |
| <input type="checkbox"/> Program name  | <input type="checkbox"/> Existing specialization                 |
| <input type="checkbox"/> CIP Code  | <input type="checkbox"/> 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

**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):**

<i>Existing Curriculum</i>				<i>Proposed Curriculum (highlight changes)</i>			
Pref.	Num.	Title	Cr. Hrs.	Pref.	Num.	Title	Cr. Hrs.
General Education			30	General Education			30
*Majors who test directly into MATH 123 will not need to complete MATH 102, but must take 3 credits of general electives.				*Majors who test directly into MATH 123 or MATH 201 will not need to complete MATH 102, but must take 3 credits of general electives.			
<del>DSU IGR</del>			<del>44</del>				
Required Courses			51	Required Courses			57
<del>CIS</del>	<del>332</del>	<del>Systems Analysis</del>	<del>3</del>	<b>CIS 321 Information Security Management or CIS 332 Systems Analysis &amp; Design</b>			<b>3</b>
CIS	383	Networking I	3	CIS	383	Networking I	3
CIS	484	Database Mgmt Sys	3	CIS	484	Database Mgmt Sys	3
				<b>CSC 105 Intro to Computers</b>			<b>3</b>
				<b>CSC 150 Computer Science I</b>			<b>3</b>
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	260	Object Oriented Design	3	CSC	260	Object Oriented Design	3
CSC	300	Data Structures	3	CSC	300	Data Structures	3
CSC	314	Assembly Language	3	CSC	314	Assembly Language	3
CSC	410	Parallel Computing	3	CSC	410	Parallel Computing	3
CSC	456	Operating Systems	3	CSC	456	Operating Systems	3
CSC	461	Programming Languages	3	CSC	461	Programming Languages	3
CSC	466	Language Processing	3	CSC	466	Language Processing	3
CSC	470	Software Engineering	3	CSC	470	Software Engineering	3
CSC	482	Algorithms & Optimization	3	CSC	482	Algorithms & Optimization	3
CIS/CSC 300-400 electives			9	CIS/CSC 300-400 electives			9
Select three 300-400 level CIS/CSC courses. (CIS 275 also allowed.)				Select three 300-400 level CIS/CSC courses. ( <b>CSC 234</b> , CIS 275 also allowed)			
Support Courses			19	Support Courses			19

MATH	123	Calculus I	4	MATH	123	Calculus I	4
MATH	201	Intro to Discrete Math	3	MATH	201	Intro to Discrete Math	3
MATH	281	Intro to Statistics	3	MATH	281	Intro to Statistics	3
	or				or		
MATH	381	Intro to Prob & Stats		MATH	381	Intro to Prob & Stats	
MATH	316	Discrete Mathematics	3	MATH	316	Discrete Mathematics	3
Math Electives			6	Math Electives			6
Math 125 or Math 200-level or above. (except Math 341/342)				Math 125 or Math 200-level or above. (except Math 341/342)			
Electives			9	Electives			14
Total number of hours required for major, minor, or specialization			51	Total number of hours required for major, minor, or specialization			57
Total number of hours required for degree			120	Total number of hours required for degree			120

## 7. Explanation of the Change:

Realign credits to reflect changes in the System General Education and the removal of DSU Institutional Graduation Requirements. CSC 105 and CSC 150 are being added to the required course listing. Electives increase by 5 credits.

CSC 234 is the new number for the course that was previously CSC 434. The material is highly relevant to the software development focus of the Computer Science program. Thus, it is listed as an allowable CSC elective even though the number is in the 200 range.

Students can select between CIS 332 and CIS 321. This will allow students to focus broadly on the structured approach to designing a general system or the management of information within a system. This modification will also improve course availability and section management.