



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

Minor Program Modification

Use this form to request minor changes in existing programs (majors, minors, certificates, or specializations). The university Vice President for Academic Affairs approves minor program modifications and they are included in the Annual Minor Program Modification Summary form.

UNIVERSITY:	DSU
PROGRAM TITLE:	MS in Applied Computer Science
CIP CODE:	
UNIVERSITY DEPARTMENT:	College of Computing
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.

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

- | | |
|--|---|
| <input type="checkbox"/> Course <i>deletions</i> that do not change the nature of the program, or distribution of courses in the program, or change of total credit hours required | <input checked="" type="checkbox"/> Course <i>additions</i> that do not change the nature of the program, or distribution of courses in the program, or change of total credit hours required |
| <input checked="" type="checkbox"/> Revised courses in the program. | |

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. 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
Required Courses			15	Required Courses			15
CSC	705	Design & Analysis of Algorithms	3	CSC	705	Design & Analysis of Algorithms	3
CSC	710	Structure and Design Programming Language	3	CSC	710	Structure and Design Programming Language	3
CSC	714	Database Systems	3				
CSC	718	Operating Systems & Parallel Programming	3	CSC	718	Operating Systems & Parallel Programming	3
CSC	720	Theory of Computation	3	CSC	720	Theory of Computation	3
				CSC	722	Machine Learning Fundamentals	3
Cyber Operations Specialization or Electives			15	Cyber Operations Specialization or Electives			15
Cyber Operations Specialization			15	Cyber Operations Specialization			15
Elective Courses			15	CSC, INFA & INFS Electives *			15
Choose five elective courses from graduate level Computer Science (CSC 500 level or above) or from other areas approved by advisor.				Choose five elective courses with advisor approval from graduate level CSC, INFA and INFS (500 level or above) or from other approved areas.			
CSC	533	Computer Graphics					
CSC	547	Artificial Intelligence					
CSC	586	Data Mining					
CSC	712	Data Structures					
CSC	716	Secure Software Engineering					
CSC	744	Software Development Leadership					
CSC	748	Software Exploitation					
Total Hours Required			30	Total Hours Required			30

6. Explanation of the Change:

CSC 722 Machine Learning Fundamentals is a new course which will replace CSC 714. The specific list of elective courses will be removed and the students will work with their advisor and Program Coordinator in choosing these elective courses.