

SOUTH DAKOTA BOARD OF REGENTS ACADEMIC AFFAIRS FORMS

Substantive Program Modification Form

UNIVERSITY:	SDSU
CURRENT PROGRAM DEGREE:	Master of Science (M.S.)
CURRENT PROGRAM MAJOR/MINOR:	Computer Science
CURRENT SPECIALIZATION:	N/A
CIP CODE:	11.0101
UNIVERSITY DEPARTMENT:	Electrical Engineering and Computer
	Science
BANNER DEPARTMENT CODE:	SEEC
UNIVERSITY COLLEGE:	Jerome J. Lohr College of Engineering
BANNER COLLEGE CODE:	3E

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.

	Dennis D. Hedge		3/28/2024						
Vice President of Academic Affairs or			Date						
	President of the University								
1.	This modification addresses a change in:								
\ge	Total credits required within the discipline		Total credits of supportive course work						
\ge	Total credits of elective course work	\boxtimes	Total credits required for program						
	Program name		Existing specialization						
] CIP Code		Other (explain below)						
	Modification requiring Board of Regents approval								
	Must have prior approval from Executive D		ē						
2.	Effective date of change: 2024-2025 Academi	ic Year							
3.	8 8								
	Associate 🗆 Bachelor's 🗌	Master	's 🛛 Doctoral 🗆						
4.	Category:								
	Certificate \Box Specialization \Box	Min	_ J _						
5.	If a name change is proposed, the change wil	l occur	:						
	\Box On the effective date for all students								
	\Box On the effective date for students new to the	e progra	am (enrolled students will graduate from						
	existing program)								
	Proposed new name:								
6.	Is the program being modified associated with	th a cu	rrent articulation agreement?						
	Yes 🗆 No 🖂								

a. If yes, will the articulation agreement need to be updated with the partner institution following the approve of the program change? Please explain: N/A

• • • • • •	ary rispects of the mounication.						
Existing Curriculum				Proposed Curriculum (Highlight Changes)			
Num	Title	Cr Hrs	Pref	Num	Title	Cr Hrs	
705	Design and Analysis of Computer Algorithms (COM)	3	CSC	705	Design and Analysis of Computer Algorithms (COM)	3	
710	Structure and Design of Programming Languages (COM)	3	CSC	710	Structure and Design of Programming Languages (COM)	3	
720	Theory of Computation (COM)	3	CSC	720	Theory of Computation (COM)	3	
770	Software Engineering Management	3	CSC	770	Software Engineering Management	3	
	Select one of the following:				Select one of the following:		
	·						
798		_	CSC	798		6	
	Electives	12			Electives	12	
	Option B: Research/Design Paper				Option B: Research/Design Paper		
788	Master's Research Problems/Projects	2	CSC	<mark>788</mark>	Master's Research Problems/Projects	<mark>≩</mark>	
		18			Electives	18	
	Option C: Coursework Only				Non-Thesis		
			CSC	<mark>788</mark>	Master's Research Problems/Projects	<mark>3</mark>	
	Electives	24			Electives	<mark>18</mark>	
Total number of hours required for degree			Total number of hours required for degree				
Option A Option B			Thesis 30			30	
					Non-Thesis	<mark>30</mark>	
Option C							
	Num 705 710 720 770 770 798 798 788	Num Title 705 Design and Analysis of Computer Algorithms (COM) 710 Structure and Design of Programming Languages (COM) 720 Theory of Computation (COM) 770 Software Engineering Management Select one of the following: Option A: Thesis Option A: Thesis 798 Thesis Electives Option B: Research/Design Paper 788 Master's Research Problems/Projects Option C: Coursework Only Electives Design Paper Total number of hours required for degree Option A Option B	Existing Curriculum Num Title Cr Hrs 705 Design and Analysis of Computer Algorithms (COM) 3 710 Structure and Design of Programming Languages (COM) 3 720 Theory of Computation (COM) 3 770 Software Engineering Management 3 8 Select one of the following: 0 0 Option A: Thesis 6 798 Thesis 6 Electives 12 12 0 Option B: Research/Design Paper 18 0 Option C: Coursework Only 18 1 Electives 24 1 Total number of hours required for degree Option A 30 00ption B 32	Existing Curriculum Num Title Cr Hrs Pref 705 Design and Analysis of Computer Algorithms (COM) 3 CSC 710 Structure and Design of Programming Languages (COM) 3 CSC 720 Theory of Computation (COM) 3 CSC 770 Software Engineering Management 3 CSC 770 Software Engineering Management 3 CSC 98 Select one of the following: 9 9 98 Thesis 6 CSC 12 12 12 12 14 12 12 12 15 0ption B: Research/Design Paper 18 12 16 0ption C: Coursework Only 18 12 16 0ption C: Coursework Only 12 18 17 Electives 24 12 17 Total number of hours required for degree Option A 30 30 0ption B 32 32 32 30	Existing CurriculumProposNumTitleCr HrsPrefNum705Design and Analysis of Computer Algorithms (COM)3CSC705710Structure and Design of Programming Languages (COM)3CSC710720Theory of Computation (COM)3CSC720770Software Engineering Management3CSC7709Select one of the following:	Existing Curriculum Proposed Curriculum (Highlight Changes) Num Title Cr Hrs Pref Num Title 705 Design and Analysis of Computer Algorithms (COM) 3 CSC 705 Design and Analysis of Computer Algorithms (COM) 710 Structure and Design of Programming Languages (COM) 3 CSC 710 Structure and Design of Programming Languages (COM) 720 Theory of Computation (COM) 3 CSC 720 Theory of Computation (COM) 770 Software Engineering Management 3 CSC 770 Software Engineering Management 798 Theory of Computation (COM) 3 CSC 798 Thesis 798 Thesis 6 CSC 798 Thesis 788 Master's Research/Design Paper CSC 788 Master's Research Problems/Projects 2 CSC 788 Master's Research Problems/Projects 2 CSC 788 Master's Research Problems/Projects 18 Electives 18 Electives Electives Electives 19 Coption C: Coursework Only Non-Thesis Total numbe	

7. Primary Aspects of the Modification:

8. Explanation of the Change:

The SDSU Graduate School has revised SDSU Policy 2:17 Credit Requirements for Graduate Credential Programs. The Graduate School adjusted the language to no longer refer to master's programs using Option A (Thesis Option), B (Research/Design Paper Option), C (Coursework Only), and D (Coursework Only - Professional Program) but to move forward with Thesis and Non-Thesis options that will require a minimum of 30 credits. The Electrical Engineering and Computer Science Department has requested to change the non-thesis option from 32 credits (Option B) and 36 credits (Option C) to 30 credits.