

2021-2022	SOGCE #:*	07
	2021-2022	SOGCE #:*

# **Graduate Program Change Proposal**

Department/Comm	nittee Informatio	on				
The main contact person for the	he Graduate Curriculum C	Committee s	should fill out this form.			
Requestor Name:	Xuzhou Chen					
Members of the Graduate Curriculum Committee:	Natasha Kourtonia, Ricky Sethi, Kevin Austin, Robin Chataut, Nadimpalli Mahadev					
Department / Unit Developing	g: * Computer Science	<b>~</b>				
Chair of Department for Police	y: * Chen	~	Chair Email:	* xchen@fitchburgstate.edu		
Academic Dean of Departmen or Program for the Policy:	* Margaret Hoey	~	Academic Dean E-mail:	* <dr. hoey=""> mhoey@fitchburç 🗸</dr.>		
Program Informati	on					
This proposal refers to a (che	ck all that apply): 🔲 Ce	ertificate Pr	ogram 🔲 Teacher Licensi	ure Program 🔲 Degree Program		
Does the program run on a co			additional faculty be neede			
O Yes			Yes	· · · ·		
No			● No			
advisor after they complete 3 2. If the additional credit hou additional internship. The total The change should also apply copulation/anticipated enrollm N/A Rationale and expected outcome.	B credit hours of internship irs of internship is approval al credits should not exce to the MS computer scienent/staffing plan (i.e., We mes for program change: ship offers and often time	p. red, student red 36 credi rence progra ho/how ma	its should take a total of 33 its.  m with Data Science Conce ny will program serve?)  ernships will start during th	ne summer semesters and continue		
courses besides the 6 require course. So for Data Science s substitute of a required cours	ed core courses, making to students, we also want to se with the additional inte	he total req increase the rnship cred	puired courses to 10. This was to total credits for the proguits.			
Implementation plan (what se *We hope to implement the ch			e begin; will change be pha	sed in)		
An old and new plan of study			(Please use template for pr	rogram revision).		
	or major changes are mad re. ere t from professional agenc	de to existin		ate Council New Course Approval form		
Signatures						
*3233 Xuzhou Chen Requester Signature:	7343036 09/19/2021 Date					

*	3232353430	Date	_
Xuzhou Chen Department Chair			
*	3735363037		
Margaret H Academic Dean Si		0/16/2021 Date	-
*	3233363434		
Becky Coppe	er Glenz 10	0/27/2021	_
SGOC <b>t</b> Dean Sigr	nature:	Date	
Approval of the Gra	duate Council	Date	
Approval of the Pre	sident	Date	
Notification			
Reviewed by the Re	egistrar:		
Reviewed by the Lib	orary:		
SGOCE Admin. Assistant Signature	Electronically sign	ned by Diane Fors on 10/13/202	1 2:41:08 PM
g			

### Name of Concentration, Program:

### Computer Science, MS

		New Plan of Study		
Pre-	Credits	Required Courses	Pre-	Credits
practicum		Course numbers Title of Course	practicum	
Hours		Course number: Title of Course	Hours	
	3	CSC 7050 - Theory of Computation		3
	3	CSC 7400 - Object Oriented Analysis		3
		and Design		
	3	CSC 8050 - Design and Analysis of		3
		Algorithms		
	3	CSC 7013 - Advanced Mathematics		3
		for Computer Scientists		
	3	CSC 7014 - The Practice of Computer		3
		Programming		
	3	CSC 7132 - Operating Systems and		3
		Networking		
	33	TOTAL CREDITS FOR PROGRAM		33 - 36
		practicum Hours  3  3  3  3  3  3	Pre- practicum Hours  Course number: Title of Course  Course number: Title of Course  CSC 7050 - Theory of Computation  CSC 7400 - Object Oriented Analysis and Design  CSC 8050 - Design and Analysis of Algorithms  CSC 7013 - Advanced Mathematics for Computer Scientists  CSC 7014 - The Practice of Computer Programming  CSC 7132 - Operating Systems and Networking	Pre- practicum Hours  Course number: Title of Course  Hours  CSC 7050 - Theory of Computation  CSC 7400 - Object Oriented Analysis and Design  CSC 8050 - Design and Analysis of Algorithms  CSC 7013 - Advanced Mathematics for Computer Scientists  CSC 7014 - The Practice of Computer Programming  CSC 7132 - Operating Systems and Networking

### Name of Concentration, Program:

## Data Science, MS

Old Plan of Study			New Plan of Study		
Required Courses  Course number: Title of Course	Pre- practicum Hours	Credits	Required Courses  Course number: Title of Course	Pre- practicum Hours	Credits
CSC 7050 - Theory of Computation		3	CSC 7050 - Theory of Computation		3
CSC 7400 - Object Oriented Analysis and Design		3	CSC 7400 - Object Oriented Analysis and Design		3
CSC 8050 - Design and Analysis of Algorithms		3	CSC 8050 - Design and Analysis of Algorithms		3
CSC 7013 - Advanced Mathematics for Computer Scientists		3	CSC 7013 - Advanced Mathematics for Computer Scientists		3
CSC 7014 - The Practice of Computer Programming		3	CSC 7014 - The Practice of Computer Programming		3
CSC 7132 - Operating Systems and Networking		3	CSC 7132 - Operating Systems and Networking		3
CSC 7015 - Introduction to Data Science		3	CSC 7015 - Introduction to Data Science		3
CSC 8008 - Data Exploration, Analytics, and Visualization		3	CSC 8008 - Data Exploration, Analytics, and Visualization		3
CSC 8015 - Data Mining and Predictive Analytics		3	CSC 8015 - Data Mining and Predictive Analytics		3
CSC 8016 - Machine Learning for Data Science		3	CSC 8016 - Machine Learning for Data Science		3
TOTAL CREDITS FOR PROGRAM		33	TOTAL CREDITS FOR PROGRAM		33 - 36