

Student Name: __

CS Elective #5

CS Elective #6

CS 580 Master's Thesis OR CS 585 Fieldwork

Project OR CS 595 Software Engineering Project

M.S. in Computer Science **Program Planning Guide**

Term/Year of first course: _____

July 2021

NOTES

- 1. Program requirements to completion: 33 credits beyond the Foundation courses. Foundation courses are not eligible to be used as electives.
- 2. All degree requirements must be met within seven (7) years of enrolling in the first course applied towards the program. International students may be required to complete EAP 500 English for Academic Purposes.
- 3. It is the student's responsibility to: (a) know and follow the program requirements and fulfil them, (b) plan their semester course schedules to remain compliant with external requirements (e.g. visa, scholarship) using the projected schedule below (schedule subject to adjustment), and, (c) request written approval for any course substitutions from your academic adviser or program director prior to enrollment. Failure to receive approval for course substitutions prior to enrollment may result in a delay in program completion.

REQUIREMENTS	CREDITS	WAIVED	SEMESTER OFFERED	PREREQUISITES	SEMESTER	GRADE		
FOUNDATION COURSES								
EAP 500 English for Academic Purposes	(3)		FALL, SPRING	None				
MATH 505 - Discrete Math	3		FALL	None				
CSIT 512 Elements of Computer Programming	3		FALL, SPRING	None				
CS 508 Computer Organization & Design	3		FALL, SPRING	CSIT 512, MATH 505				
CS 519 Advanced Data Structures	3		FALL, SPRING	CSIT 512				
Foundation Total:	3-18							
		CS CORE -	REQUIRED COURSES					
CS 520 Algorithm Analysis	3		SPRING	MATH 505, CS 519				
CS 524 Principles of Software Engineering	3		FALL	CSIT 512				
CS 528 Artificial Intelligence	3		FALL	CSIT 512				
CS 564 Operating Systems	3		SPRING	CS 508, CS 519				
Select one from the following:								
CS 561 Computer Architecture	3		FALL (<mark>even</mark> yrs)	CS 508, CS 519				
CS 571 Programming Languages	3		FALL (odd years)	CS 508, CS 519				
CS ELECTIVES - COURSE OPTIONS (18.0 credits with no RESEARCH or 12.0 credits with RESEARCH)								
CS Elective #1	3							
CS Elective #2	3							
CS Elective #3	3							
CS Elective #4	3							

CONCENTRATIONS: Students may use their electives to get a concentration in *Data Science* or **Cybersecurity** or take electives from either or both areas.

CS ELECTIVES - RESEARCH OPTIONS (Select one of the options below, advisor approval required) ANY

DATA SCIENCE	SEMESTER OFFERED	PREREQUISITES
CS 527 Data Science	SPRING .	CS 530
CS 522 Data Mining	FALL	MATH 505, CS 519
CS 543 Machine Learning	SPRING	CS 528
CS 565 Adv DBMS	FALL	(CS 519 or CS 564), CS 530

Program Total (Core+Electives):

3

33

CYBERSECURITY*	SEMESTER OFFERED	PREREQUISITES	
CSIT 555 Info Sys Security	FALL, SPRING	None	
CSIT 548 Telecom & Networking	FALL, SPRING	None	
CSIT 534 Net & Internet Sec	FALL, SPRING	CYBR 555	
CSIT 532 Computer Forensics	SPRING	CYBR 555	
Select one from the options below:			
CSIT 566 Ethical Hacking	FALL, SPRING	CYBR 534	
CSIT/CYBR 537 Encr & Crypto	SPRING (even yrs)	CYBR 555	
*			

ALL COURSES

Advisor Signature & Date:	

Completion of this concentration earns a Cybersecurity Certificate.