

## PLAN OF STUDY MS COMPUTER SCIENCE

Review your plan of study with your faculty advisor and then submit it via email to <a href="mailto:csgrad@gmu.edu">csgrad@gmu.edu</a>.

Please refer to the <a href="mailto:University Catalog">University Catalog</a> as the official source for policies and requirements.

Last Name, First Name		G#		GMU E-mail		
	that the courses you list below will overla Approved Courses.	p in categories. For example,	CS 583 falls	under Core Courses, CS Coui	rses, and	
REQ	UIRED COURSES • All MS CS students ar	re required to take CS 530 and	l CS 531. Thi	s requirement can be fulfille	ed by	
•	ng the classes, passing the corresponding				quest.	
	and BAM students will not receive credit fo	or CS 530 or CS 531 and snoul			ow. or Waived N/A	
Course CS 530 Mathematical Foundations of Computer Sc		nnuter Science	Grade			
CS 531 Computer Systems & Fundamentals of Sys		•	σ			
			<u> </u>		<u> </u>	
COR	E COURSES • Choose three core courses,	, including CS 583, from three	different ar	eas.		
Course		Area	Area			
CS 583 Analysis of Algorithms		Theoretical	Theoretical Computer Science			
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earlie	ANCED COURSES • Choose four advance four advanced to take four advanced irse				<u>9-20</u> or <b>Grade</b>	
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CS CO	OURSES • Six courses, including two advances  CS 583 Analysis of Algorithms	anced, must be designated CS  4.  5.  6.	areas.		Grade	
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**CONCENTRATION (optional)** • In addition to the existing program requirements, MS CS students may choose a concentration in Cyber Security or Machine Learning. To declare your concentration, fill out the "Change of Concentration" section of the <a href="mailto:Graduate Change of Program">Graduate Change of Program</a> form and submit it to <a href="mailto:csgrad@gmu.edu">csgrad@gmu.edu</a>.

☐ Cyber Security Concentration		☐ Machine Learning Concentration			
Required: ISA 656 Network Security ISA 562 Information Security Theory & P	ractice	Required: CS 584 Theory & Applications of Data Mining CS 688 Machine Learning			
Choose 2-3 elective courses:  □ CS 587 Introduction to Cryptography □ ISA 564 Security Laboratory □ ISA 673 Operating Systems Security □ ISA 674 Intrusion Detection □ ISA 681 Secure Software Design & Pro □ ISA 763 Security Protocol Analysis □ ISA 764 Security Experimentation □ SWE 637 Software Testing  Choose 0-1 related course: □ CS 540 Language Processors □ CS 555 Computer Communications & □ CS 571 Operating Systems □ CS 600 Theory of Computation □ CS 655 Wireless & Mobile Computing		Choose 2-3 elective courses:  □ CS 657 Mining Massive Datasets: □ CS 678 Advanced NLP □ CS 681 Instructable Cognitive Application □ CS 747 Deep Learning □ CS 782 Advanced Machine Learn  Choose 0-1 related course: □ CS 580 Introduction to Artificial □ CS 682 Computer Vision □ CS 685 Autonomous Robotics □ CS 687 Advanced Artificial Intellection	gents ning Intelligence		
☐ Thesis (optional)*					
If you are interested in pursuing the thesis op	tion as part of y	our concentration, please contact csgra	d@gmu.edu.		
Student Sign		ature	Date		
Advisor Signature			Date		
Program Director Signature			Date		