MASTER OF INFORMATION SYSTEMS MANAGEMENT
Fall 2025 – Summer 2026
Washington University McKelvey School of Engineering - Sever Institute

NAME: _____ Student ID #: _____ SEMESTER ADMITTED: _____

Required Courses – complete **6/7** courses, including INFO-5985, a total of **18** units

Course #	Course Title	Units	Offered	Earned
INFO-5517	Operational Excellence & Service Delivery	3	**FL/SP**	
INFO-5540	IT Architecture & Infrastructure	3	**FL/SP**	
INFO-5563	IT Governance & Risk Management	3	**FL/SP**	
INFO-5575	Enterprise Data Management	3	**FL/SP**	
CYBER-5559	Introduction to Cybersecurity	3	**FL/SP**	
INFO-5521	Principles of Software Design & Architecture	3	**FL/SP**	
INFO-5985	Capstone *(should be one of the six courses and completed in the final semester after the other 5 have been completed with a B- or better)*	3	**FL/SP**	
	Total Required Units	**18**		

Bridge Course (counts as 1 elective if taken)

INFO-5509	Fundamentals of Information Technology	3	**FL/SP**	

Emphasis Area Electives – choose **4** courses or total of **12** units from one or more of the emphasis areas listed below:

Cybersecurity emphasis area

Course #	Course Title	Units	Offered	Earned
CYBER-5560	Cybersecurity Technical Fundamentals	3		
CYBER-5561	Oversight for Excellence: Cybersecurity Management & Governance	3		
CYBER-5562	Efficient and Effective Cybersecurity Operations	3		
CYBER-5563	Enterprise Network Security	3		
CYBER-5566	Cybersecurity Risk Management	3		
CYBER-5567	The Hacker Mindset: Cyber Attack Fundamentals	3		
CYBER-5587	Cloud Security	3		

Management emphasis area

ETEM-5527	Entrepreneurship: Challenges & Opportunities	3		
ETEM-5582	Human Performance in the Organization	3		
ETEM-5587	Communication Excellence for Influential Leadership	3		
CYBER-5570	Leadership Seminar for Technology Professionals *(work experience required)*	3		
ETEM-5504	Engineering Management & Financial Intelligence	3		
ETEM-5505	Decision Analysis & Optimization	3		
ETEM-5600	Supply Chain for Engineering Managers	3		

Applied Data Analytics and Machine Learning emphasis area

INFO-5521	Special Topics in Information Technology	3		
INFO-5558	Applications of Deep Neural Networks	3		
INFO-5559	Applications of Generative AI and LLM	3		
INFO-5574	Foundations of Analytics	3		
INFO-5576	Analytics Applications *(completion of T81-574 recommended)*	3		

Special Course (counts as 1 elective if taken)

INFO-5552	Block Chain	3		

Mathematical Data Analytics emphasis area

MATH-5020	Mathematical Statistics	3	**ESE**	
ESE-4150	Optimization	3	**ESE**	
~CSE-4102	Introduction to Artificial Intelligence	3	**CSE**	
~ESE-4170	Introduction to Machine Learning and Pattern Classification	3	**ESE**	
~CSE-5104	Data Mining	3	**CSE**	
~CSE-5107	Machine Learning	3	**CSE**	

AI & Machine Learning emphasis area

~CSE-4102	Introduction to Artificial Intelligence	3	**CSE**	
~ESE-4170	Introduction to Machine Learning and Pattern Classification	3	**ESE**	
~CSE-5104	Data Mining	3	**CSE**	
~CSE-5107	Machine Learning	3	**CSE**	
CSE-5109	Advanced Machine Learning	3	**CSE**	
	Total Elective Units	**12**		

Total Units	**30**

ALL STUDENTS IN THE SEVER INSTITUTE MUST REGISTER EVERY FALL & SPRING SEMESTER UNTIL ALL DEGREE REQUIREMENTS ARE COMPLETED. All requirements for the degree must be completed within six years from the time the student is admitted to graduate standing. A maximum of 6 units of graduate credit may be transferred with approval of Program Director.

~ **Courses offered in other departments** give priority registration to their students. There is a chance you may not get into these courses, but you are still encouraged to enroll. It is also your responsibility to check the course prerequisites to ensure you are prepared for the content. See your program advisor for any questions. 11/12/2024