MASTER OF INFORMATION SYSTEMS MANAGEMENT
Fall 2024 – Summer 2025
Washington University McKelvey School of Engineering - Sever Institute

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

Required Courses – complete **6** courses a total of **18** units

Course #	Course Title	Units	Offered	Earned
T81-517	Operational Excellence & Service Delivery	3	**FL/SP**	
T81-540	IT Architecture & Infrastructure	3	**FL/SP**	
T81-563	IT Governance & Risk Management	3	**FL/SP**	
T81-575	Enterprise Data Management	3	**FL/SP**	
T83-559	Introduction to Cybersecurity	3	**FL/SP**	
T81-585	Capstone *(should be completed in the final semester)*	3	**FL/SP**	
	Total Required Units	**18**		

Bridge Course (counts as 1 elective if taken)

T81-506	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
T83-560	Cybersecurity Technical Fundamentals	3	**SP**	
T83-561	Oversight for Excellence Cybersecurity Management & Governance	3	**FL**	
T83-562	Efficient and Effective Cybersecurity Operations	3	**SP**	
T83-563	Enterprise Network Security	3	**SP**	
T83-567	The Hacker Mindset: Cyber Attack Fundamentals	3	**FL**	

Management emphasis area

T55-527	Entrepreneurship: Challenges & Opportunities	3	**SP**	
T55-582	Human Performance in the Organization	3	**SP/SU**	
T55-587	Communication Excellence for Influential Leadership	3	**FL/SP/SU**	
T81-570	Leadership Seminar for Technology Professionals *(work experience required)*	3	**FL**	
T55-504	Engineering Management & Financial Intelligence	3	**FL/SP**	
T55-505	Decision Analysis & Optimization	3	**FL/SP**	

Applied Data Analytics and Machine Learning emphasis area

T81-558	Applications of Deep Neural Networks	3	**FL/SP**	
T81-559	Applications of Generative AI & LLM	3	**FL/SP**	
T81-574	Foundations of Analytics	3	**FL**	
T81-576	Analytics Applications *(completion of T81-574 recommended)*	3	**SP**	

Mathematical Data Analytics emphasis area

L24-494	Mathematical Statistics	3	**ESE**	
E35-415	Optimization	3	**ESE**	
~E81-412A	Introduction to Artificial Intelligence	3	**CSE**	
~E35-417	Introduction to Machine Learning and Pattern Classification	3	**ESE**	
~E81-514A	Data Mining	3	**CSE**	
~E81-517A	Machine Learning	3	**CSE**	

AI & Machine Learning emphasis area

~E81-412A	Introduction to Artificial Intelligence	3	**CSE**	
~E35-417	Introduction to Machine Learning and Pattern Classification	3	**ESE**	
~E81-514A	Data Mining	3	**CSE**	
~E81-517A	Machine Learning	3	**CSE**	
E81-519T	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.

Special Topics

T81 - 552	Block Chain	3	**SP**	
T81 - 5521	Principles of Software Design & Architecture	3	**FL**	