MASTER OF ENGINEERING MANAGEMENT
Fall 2022-Summer 2023
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
*T55-504	Engineering Mgmt. & Financial Intelligence *(should be completed in the initial semester)*	**3**	**FL/SP**	
*T55-506	Technology Strategy & Marketing	**3**	**FL/SP**	
*T55-510	Understanding Emerging & Disruptive Technologies	**3**	**FL/SP**	
*T54-523	Project Planning Methodologies	**3**	**FL/SP/SU**	
*T55-582 OR *T55-581	Human Performance in the Organization OR Leading in a Technology-Rich World	**3**	**SP/SU** **FL/SP/SU**	
T55-585	MEM Capstone *(should be completed in the final semester)*	**3**	**FL/SP/SU**	
	Total Required Units	**18**		

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

Applied Data Analytics emphasis area

Course #	Course Title	Units	Offered	Earned
T81-506	Fundamentals of Information Technology	**3**	**FL/SP**	
T81-574	Foundations of Analytics*	**3**	**FL**	
T81-575	Enterprise Data Management	**3**	**FL**	
T81-576	Analytics Applications* *(completion of T81-574 recommended)*	**3**	**SP**	
T81-577	Applied Data Science for Practitioners* *(completion of T81-574 recommended)*	**3**	**SP**	

**This course has a strong math/technology emphasis*

Computer Science & Security emphasis area

T55-505	Decision Analysis & Optimization	**3**	**FL/SP**	
T83-559	Introduction to Cybersecurity	**3**	**FL/SP**	
T83-560	Cybersecurity Technical Fundamentals*	**3**	**SP**	
T83-567	The Hacker Mindset: Cyber Attack Fundamentals*	**3**	**FL**	
T83-568	Emerging Issues and Technology in Cybersecurity	**3**	**TBD**	
E81-501N	Introduction to Computer Science*	**3**	**CSE**	
E81-502N	Data Structures and Algorithms*	**3**	**CSE**	

**This course has a strong math/technology emphasis*

Managing, Leading & Innovating emphasis area

T55-520	Intro to Innovation & Entrepreneurship	**3**	**FL/SU**	
T55-525	Innovating for Defense	**3**	**SP**	
T55-581	Leading in a Technology-Rich World	**3**	**FL/SP/SU**	
T55-582	Human Performance in the Organization	**3**	**SP/SU**	
T55-586	Cross-Cultural Negotiation	**3**	**SP/SU**	
T55-587	Communication Excellence for Influential Leadership	**3**	**FL/SP**	
B63-501C	CEL Entrepreneur Consulting Team	**3**	**Olin**	

Project Management and Operational Excellence emphasis area

T54-525	Intro to Agile Project Management	**3**	**FL**	
T54-526	The Art & Science of Risk Management	**3**	**FL**	
T54-528	Advanced Topics in Agile Project Management	**3**	**SP**	
T71-502	Facilitation Skills/Change Management	**3**	**TBA**	
T71-503	Lean Healthcare Concepts, Tools & Lean Management	**3**	**TBA**	
T71-504	Six Sigma Concepts & Tools	**3**	**TBA**	
T64-572	Legal Aspects of Construction	**3**	**FL/SP**	
T64-573	Fundamentals of Construction Management	**3**	**FL/SP**	
T64-523A	Construction Cost Estimating	**3**	**FL/SP**	
	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 required to earn the Graduate Certificate in Engineering Management 1/22 SG