

MASTER OF ENGINEERING MANAGEMENT

Fall 2022-Summer 2023

Washington University McKelvey School of Engineering - Sever Institute

NAME: Jason Arnold 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 <i>(should be completed in the initial semester)</i>	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 <i>(should be completed in the final semester)</i>	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* <i>(completion of T81-574 recommended)</i>	3	SP	
T81-577	Applied Data Science for Practitioners* <i>(completion of T81-574 recommended)</i>	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