# 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 | | |
| T81-540 | IT Architecture & Infrastructure | 3 | | |
| T81-563 | IT Governance & Risk Management | 3 | | |
| T81-575 | Enterprise Data Management | 3 | | |
| T83-559 | Introduction to Cybersecurity | 3 | | |
| T81-585 | Capstone *(should be completed in the final semester)* | 3 | | |
| | **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 | | |
| T83-561 | Oversight for Excellence Cybersecurity Management & Governance | 3 | | |
| T83-562 | Efficient and Effective Cybersecurity Operations | 3 | | |
| T83-563 | Enterprise Network Security | 3 | | |
| T83-567 | The Hacker Mindset: Cyber Attack Fundamentals | 3 | | |

**Management emphasis area**

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

**Applied Data Analytics and Machine Learning emphasis area**

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

**Mathematical Data Analytics emphasis area**

| | | | | |
|---|---|---|---|---|
| ~E35-415 | Optimization | 3 | **ESE** | |
| ~E81-412A | Introduction to Artificial Intelligence | 3 | **CSE** | |
| ~E35-417T | Introduction to Machine Learning | 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** | |
| ~E35-417T | Introduction to Machine Learning | 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.

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**Special Topics**

| | | | | |
|---|---|---|---|---|
| T81 - 552 | Block Chain | 3 | | |
| T81 - 5521 | Principles of Software Design & Architecture | 3 | | |