MASTER OF SCIENCE IN INFORMATION TECHNOLOGY AND MANAGEMENT

Master of Science in Information Technology and Management (Thesis Option)

Code	Title		Credit Hours
Core Courses			**(9)**
Select a minimum of three credit hours from Software Development:			3
ITMD 510	Object-Oriented Application Development	3	
ITMD 513	Open Source Programming	3	
ITMD 514	Programming for Data Analytics	3	
ITMD 515	Advanced Software Programming	3	
Select a minimum of three credit hours from System Technologies:			3
ITMD 553	Enterprise Intelligent Device Applications	3	
ITMD 554	Mass-Market Intelligent Device Applications	3	
ITMD 555	Open-Source Intelligent Device Applications	3	
ITMD 566	Service-Oriented Architectures	3	
ITMO 533	Enterprise Server Administration	3	
ITMO 540	Introduction to Data Networks and the Internet	3	
ITMO 553	Open Source System Administration	3	
ITMO 554	Operating Systems Virtualization	3	
ITMO 556	Introduction to Open Source Software	3	
ITMS 548	Cyber Security Technologies	3	
ITMS 558	Operating Systems Security	3	
ITMT 535	Data Center Architecture	3	
ITMT 593	Embedded Systems	3	
Select a minimum of three credit hours from Business Development:			3
ITMD 511	Application Development Methodologies	3	
ITMD 532	UML-Based Software Development	3	
ITMD 534	Human and Computer Interaction	3	
ITMD 535	Human-Computer Interaction Design	3	
ITMM 537	Vendor Management and Service Level Agreements	3	
ITMM 570	Fundamentals of Management for Technology Professionals	3	
ITMM 571	Project Manangement for Information Technology Management	3	
ITMM 574	Information Technology Management Frameworks	3	
ITMM 575	Networking and Telecommunications Management	3	
ITMM 581	Information Technology Entrepreneurship	3	
ITMM 582	Business Innovation	3	
ITMS 578	Cyber Security Management	3	
ITMT 531	Object-Oriented System Analysis, Modeling, and Design	3	
Research Course			**(5-8)**
ITMT 591	Independent Study and Research		5-8
Elective Courses			**(15-18)**
Select 15-18 credit hours from any 500-level ITM, ITMD, ITMM, ITMO, ITMS, ITMT, or TECH courses selected with the student's adviser. [1]			15-18

Minimum degree credits required: 32

[1] Courses from other departments may be selected with adviser approval. Students may select project courses ITMT 594 or ITMT 597 as electives, but a maximum combined total of eight credit hours of ITMT 591, ITMT 594, and ITMT 597 may be applied toward the degree requirements.

Master of Science in Information Technology and Management (Master's Project Option)

Code	Title		Credit Hours
Core Courses			**(9)**
Select a minimum of three credit hours from Software Development:			3
ITMD 510	Object-Oriented Application Development	3	
ITMD 512	Structured and Systems Programming	3	
ITMD 513	Open Source Programming	3	
ITMD 515	Advanced Software Programming	3	
Select a minimum of three credit hours from System Technologies:			3
ITMD 553	Enterprise Intelligent Device Applications	3	
ITMD 554	Mass-Market Intelligent Device Applications	3	
ITMD 555	Open-Source Intelligent Device Applications	3	
ITMD 565		3	
ITMD 566	Service-Oriented Architectures	3	
ITMO 533	Enterprise Server Administration	3	
ITMO 540	Introduction to Data Networks and the Internet	3	
ITMO 553	Open Source System Administration	3	
ITMO 554	Operating Systems Virtualization	3	
ITMO 556	Introduction to Open Source Software	3	
ITMS 548	Cyber Security Technologies	3	
ITMS 558	Operating Systems Security	3	
ITMT 535	Data Center Architecture	3	
ITMT 593	Embedded Systems	3	
Select a minimum of three credit hours from Business Development:			3
ITMD 511	Application Development Methodologies	3	
ITMD 532	UML-Based Software Development	3	
ITMD 534	Human and Computer Interaction	3	
ITMD 535	Human-Computer Interaction Design	3	
ITMM 537	Vendor Management and Service Level Agreements	3	
ITMM 570	Fundamentals of Management for Technology Professionals	3	
ITMM 571	Project Manangement for Information Technology Management	3	
ITMM 574	Information Technology Management Frameworks	3	
ITMM 575	Networking and Telecommunications Management	3	
ITMM 581	Information Technology Entrepreneurship	3	
ITMM 582	Business Innovation	3	
ITMS 578	Cyber Security Management	3	
ITMT 531	Object-Oriented System Analysis, Modeling, and Design	3	
Research Course			**(5-8)**
ITMT 594	Special Projects in Information Technology		5-8
or ITMT 597	Special Problems in Information Technology		
Elective Courses			**(15-18)**
Select 15-18 credit hours from any 500-level ITM, ITMD, ITMM, ITMO, ITMS, ITMT, or TECH courses selected with the student's adviser. [1]			15-18

Minimum degree credits required: 32

[1]   Courses from other departments may be selected with adviser approval.