

# MASTER OF SCIENCE IN INFORMATION TECHNOLOGY AND MANAGEMENT

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

Code	Title	Credit Hours
<b>Core Courses</b>		<b>(9)</b>
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 Management 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
<b>Research Course</b>		<b>(5-8)</b>
ITMT 591	Independent Study and Research	5-8
<b>Elective Courses</b>		<b>(15-18)</b>
Select 15-18 credit hours from any 500-level ITM, ITMD, ITMM, ITMO, ITMS, ITMT, or TECH courses selected with the student's adviser. <sup>1</sup>		15-18

**Minimum degree credits required: 32**

<sup>1</sup> 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
<b>Core Courses</b>		<b>(9)</b>
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 Management 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
<b>Research Course</b>		<b>(5-8)</b>
ITMT 594	Special Projects in Information Technology	5-8
or ITMT 597	Special Problems in Information Technology	
<b>Elective Courses</b>		<b>(15-18)</b>
Select 15-18 credit hours from any 500-level ITM, ITMD, ITMM, ITMO, ITMS, ITMT, or TECH courses selected with the student's adviser. <sup>1</sup>		15-18

Minimum degree credits required: 32

<sup>1</sup> Courses from other departments may be selected with adviser approval.