Information Technology and Management Assessment Plan for Graduate Degrees, 2019-2021 (Version 2)

Assessment plans for 2019-2021 will adhere to the rubric as defined by the IIT Assessment Report Evaluation Rubric. One Program Educational Objective in each degree program will be assessed each term, and all objectives will be assessed twice in each three-year cycle. The full list of Program Educational Objectives to be assessed follows beginning on page 3 below. In addition to the Program Educational Objective, course objectives for each course will be assessed. Separate plans will be used for the undergraduate and graduate programs. This document addresses the courses in the Graduate Program. It was revised in Fall 2019 to reflect inclusion of the Master of Science in Information Technology and Management, but assessment of this degree will not begin until Fall 2020 when the first students in this degree are expected to matriculate.

Spring 2019:
Master of Information Technology and Management (MITM) Objectives Assessed: 3
Master of Cyber Forensics and Security (MCYF) and M.S. in Applied Cybersecurity and Digital Forensics (MSACDF) Program Educational Objectives Assessed: 2
M.S. in Applied Cybersecurity and Digital Forensics (MSACDF) Program Educational Objectives Assessed: 4
Student Artifacts: Survey / April 2019 / Evaluation by ITM Curriculum Committee members
Assignments / May 2019/ Evaluator(s) TBD
Courses assessed:

Curricular Area	***Course***	
Software Development (MITM)	ITMD 510	Object-Oriented Application Development
Security & Forensics (MCYF)	ITMS 583	Digital Evidence
Security Technologies (MSACDF)	ITMS 549	Cyber Security Technologies: Projects & Advanced Methods

Fall 2019:
Master of Information Technology and Management (MITM) Program Educational Objectives Assessed: 1
Master of Cyber Forensics and Security (MCYF) and M.S. in Applied Cybersecurity and Digital Forensics (MSACDF) Program Educational Objectives Assessed: 3
Student Artifacts: Survey / November 2019 / Evaluation by ITM Curriculum Committee
Assignments / December 2019 / Evaluators: Evaluator(s) TBD
Courses assessed:

Curricular Area	***Course***	
System Technologies (MITM)	ITMO 540	Introduction to Data Networks & the Internet
Security Technologies (MCYF and MSACDF)	ITMS 548	Cyber Security Technologies

Spring 2020:
Master of Information Technology and Management (MITM) Program Educational Objectives Assessed: 2
Master of Cyber Forensics and Security (MCYF) and M.S. in Applied Cybersecurity and Digital Forensics (MSACDF) Program Educational Objectives Assessed: 2
Student Artifacts: Survey / April 2020 / Evaluation by ITM Curriculum Committee
Assignments / May 2020 / Evaluator(s) TBD
Courses assessed:

Curricular Area	***Course***	
I.T. Infrastructures (MITM)	ITMO 554	Operating Systems Virtualization
Security Technologies (MCYF and MSACDF)	ITMS 538	Digital Forensics

Fall 2020:
Master of Information Technology and Management (MITM) and Master of Science in Information Technology and Management (MSITM) Program Educational Objectives Assessed: 1
Master of Cyber Forensics and Security (MCYF) and M.S. in Applied Cybersecurity and Digital Forensics (MSACDF) Program Educational Objectives Assessed: 1
M.S. in Applied Cybersecurity and Digital Forensics (MSACDF) and Master of Science in Information Technology and Management (MSITM) Program Educational Objectives Assessed: 4
Student Artifacts: Survey / November 2020 / Evaluation by ITM Curriculum Committee
Assignments / December 2020 / Evaluator(s) TBD
Courses assessed:

Curricular Area	***Course***	
Data Management (MITM)	ITMD 527	Data Analytics
Security Management (MCYF and MSACDF)	ITMS 578	Cyber Security Management
Thesis Research (MSACDF and MSITM)	ITMT 591	Independent Study and Research

Spring 2021:
Master of Information Technology and Management (MITM) and Master of Science in Information Technology and Management (MSITM) Program Educational Objectives Assessed: 3
Master of Cyber Forensics and Security (MCYF) and M.S. in Applied Cybersecurity and Digital Forensics (MSACDF) Program Educational Objectives Assessed: 3
Student Artifacts: Survey / April 2021 / Evaluation by ITM Curriculum Committee
Assignments / May 2021 / Evaluator(s) TBD
Courses assessed:

Curricular Area	***Course***	
Web Design/Development (MITM)	ITMD 565	Rich Internet Applications
Security Technologies (MCYF and MSACDF)	ITMS 543	Vulnerability Analysis and Control

Fall 2021:
Master of Information Technology and Management (MITM) and Master of Science in Information Technology and Management (MSITM) Program Educational Objectives Assessed: 2
Master of Cyber Forensics and Security (MCYF) and M.S. in Applied Cybersecurity and Digital Forensics (MSACDF) Program Educational Objectives Assessed: 1

Fall 2021 (continued):

Student Artifacts: Survey / November 2021 / Evaluation by ITM Curriculum Committee
Assignments / December 2021 / Evaluator(s) TBD

Courses assessed:

Curricular Area	*Course*
I.T. Management (MITM)	ITMM 571 Project Management for ITM
Security Technologies (MCYF and MSACDF)	ITMS 548 Cyber Security Technologies

Program Education Objectives

The following program education objectives will be assessed for HLC accreditation purposes:

Master of Information Technology and Management (MITM) Program Educational Objectives
At the conclusion of their studies, graduates of the Master of Information Technology and Management should be able to:
1. Deliver optimal technical and policy technology solutions for the problems of business, industry, government, non-profit organizations, and individuals in each student's particular area of focus.
2. Work with, lead, and manage teams in an enterprise environment to collaboratively arrive at optimal technology solutions.
3. Manage and deploy information resources applicable to each student's particular area of focus in an enterprise setting.

Master of Cyber Forensics and Security (MCYF) Program Educational Objectives
At the conclusion of their studies, graduates of the Master of Cyber Forensics and Security degree should be able to:
1. Design and implement a comprehensive enterprise security program using both policy and technology to implement technical, operational, and managerial controls.
2. Comprehensively investigate information security incidents and violation of law using computer resources in a manner such that all evidence is admissible in a court of law.
3. Technically secure enterprise information assets and resources to deter, detect, and prevent the success of attacks and intrusions.

Master of Science in Applied Cybersecurity and Digital Forensics (MSACDF) Program Educational Objectives
At the conclusion of their studies, graduates of the Master of Science in Applied Cybersecurity and Digital Forensics degree should be able to:
1. Design and implement a comprehensive enterprise security program using both policy and technology to implement technical, operational, and managerial controls.
2. Comprehensively investigate information security incidents and violation of law using computer resources in a manner such that all evidence is admissible in a court of law.
3. Technically secure enterprise information assets and resources to deter, detect, and prevent the success of attacks and intrusions.
4. Conduct and report on significant research in the areas of cybersecurity and/or digital forensics.

Master of Science in Information Technology and Management (MITM) Program Educational Objectives
At the conclusion of their studies, graduates of the Master of Science in Information Technology and Management should be able to:
1. Deliver optimal technical and policy technology solutions for the problems of business, industry, government, non-profit organizations, and individuals in each student's particular area of focus.
2. Work with, lead, and manage teams in an enterprise environment to collaboratively arrive at optimal technology solutions.
3. Manage and deploy information resources applicable to each student's particular area of focus in an enterprise setting.
4. Apply mathematics and technical skills to research and innovation in the field..

Survey drafting and data collection staff:

Angela Jarka, ITM Department Manager
Ryan Nelson, ITM Admissions and Recruitment Specialist

Assessment Evaluators:

ITM Curriculum Committee

Faculty members of the Curriculum Committee evaluate Survey Artifacts and make recommendations based on evaluations of all assessment artifacts. All full-time faculty members are voting members of the committee should they elect to participate.

Chair: Ray Trygstad, ITM Associate Chair and Industry Professor
Members: Jeremy Hajek, Industry Associate Professor
Maurice E. Dawson, Director of the Center for Cyber Security and Forensics Education and Assistant Professor
Louis F. McHugh IV, SAT Director of IT and Adjunct Industry Professor
Thomas "T.J." Johnson, Adjunct Industry Professor
Dan Kahn, Adjunct Industry Professor
Faculty: C. Robert Carlson, ITM Chair and Professor
Karl Stolley, Associate Professor (joint appointment)
Adarsh Arora, Coleman Entrepreneur-in-Residence and Industry Professor
James Pappademas, Industry Professor
Yong Zheng, Assistant Professor

All full-time faculty members may be appointed as assessment evaluators for Assignment Artifacts. Appointments will be made at the beginning of each term in which assignments will be assessed, and will assigned in the Assessment Plan for that semester.