



Information Technology and Management Assessment Plan Fall 2018

Undergraduate Assessment, Fall 2018:

Based on *Information Technology and Management Assessment Plan for Undergraduate Degrees, 2016-2018 (Revision 4)* [http://itm.iit.edu/faculty/2016-2018ITMUndergraduateAssessmentPlan\(Rev4\).pdf](http://itm.iit.edu/faculty/2016-2018ITMUndergraduateAssessmentPlan(Rev4).pdf) and *Bachelor of Science in Applied Cybersecurity and Information Technology Assessment Plan, 2018-2019 (Revision 1)* <http://itm.iit.edu/faculty/2018-2019BSACITAssessmentPlanRev1.pdf>

Program Educational Objectives Assessed: BITM/BSACIT 2 and BSACIT 3

New Student Outcomes Assessed: BITM/BSACIT (b), (c), (f), and BSACIT (h)

Student Artifacts: Survey / December 2018 / Evaluation by ITM Curriculum Committee

Assignments / December 2018 / Evaluators: Trygstad/Arora/Dawson

Courses assessed:

<i>Curricular Area</i>	<i>Course</i>
Software Development	ITMD 411 Intermediate Software Development
Networking and Communications	ITMO 440 Introduction to Data Networks and the Internet
System/Data Security	ITMS 448 Cyber Security Technologies
Human/Organizational/Societal Security	ITMS 478 Cyber Security Management

The following BITM/BSACIT program education objective will be evaluated:

2. Perform requirements analysis, design and administration of computer and network-based systems conforming to policy and best practices, and monitor and support continuing development of relevant policy and best practices as appropriate.

The following BSACIT program education elective will be evaluated in ITMS courses:

3. Design and implement an enterprise security program using both policy and technology to implement technical, operational, and managerial controls, which will technically secure enterprise information assets and resources to deter, detect, and prevent the success of attacks and intrusions.

The following BITM/BSACIT Student Outcomes will be evaluated in ITMD 411:

BITM/BSACIT graduates should be able to:

- (b) Design, implement, and evaluate a computer-based solution to meet a given set of computing requirements [ABET Computing 2]
- (f) Identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems [ABET IT 6]

The following BITM/BSACIT Student Outcomes will be evaluated in ITMO 440:

BITM/BSACIT graduates should be able to:

- (c) Communicate effectively with a range of audiences about technical information [ABET Computing 3]
- (f) Identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems [ABET IT 6]

The following BITM/BSACIT Student Outcomes will be evaluated in ITMS448 and ITMS 478:

BITM/BSACIT graduates should be able to:

- (c) Communicate effectively with a range of audiences about technical information [ABET Computing 3]

BSACIT graduates should be able to:

- (h) Apply security principles and practices to the environmental, hardware, software, and human components of a system. [ABET Cybersecurity 6]

In addition to the above, course objectives for each course will be assessed.

Student Artifact Assessment: The Department will use Blackboard Outcomes for assessment of undergraduate assignments beginning in the Fall 2018 term. Blackboard Outcomes Assessment will allow us to collect student artifacts from courses in Blackboard Learn, apply a rubric to the student work and generate both detailed and summary reports of the results. This will require that the following steps be taken in each course to be assessed:

1. Identify the course in which we will collect student artifacts. (Done.)
 - a. We will send the necessary information so the IIT Office of Student Learning Assessment can enter the learning goals into Blackboard.
2. Identify the assignment in each course that will provide the student artifacts.
 - a. Faculty members need to select an assignment that *best* allows evaluation of the outcomes being assessed. This selection needs to be made at the time of drafting of the course syllabus.
3. Create the assignment in Blackboard Learn.
4. Align the assignment to the appropriate learning goal (student outcomes).
 - a. This has always been there when we create assignments but we have never been able use it. We will provide all of our student outcomes so that faculty members may elect to make use of this even for courses not being assessed.

Graduate Assessment, Fall 2018:

Based on *Information Technology and Management Assessment Plan for Graduate Degrees, 2016-2018 (Revision 2)* [http://itm.iit.edu/faculty/2016-2018ITMGraduateProgramAssessmentPlan\(Rev.2\).pdf](http://itm.iit.edu/faculty/2016-2018ITMGraduateProgramAssessmentPlan(Rev.2).pdf)

Master of Information Technology and Management (MITM) Program Educational

Objectives Assessed: 3

Master of Cyber Forensics and Security (MCYF) Program Educational Objectives Assessed: 1

Master of Science in Applied Cybersecurity and Digital Forensics (MSASDF) Program Educational

Objectives Assessed: 1

Student Artifacts: Survey / December 2018 / Evaluation by ITM Curriculum Committee

Assignments / December 2018 / Evaluators Trygstad/Arora/Dawson

Courses assessed:

<i>Curricular Area</i>	<i>Course</i>
System Technologies (MITM)	ITMO 556 Introduction Open Source Software
Security Management (MCYF/ MSACDF)	ITMS 578 Cyber Security Management

The following program education objective will be evaluated in ITMO 556:

At the conclusion of their studies, graduates of the Master of Information Technology and Management should be able to:

2. Manage and deploy information resources applicable to each student’s particular area of focus in an enterprise setting..

The following program education objective will be evaluated in ITMS 578:

At the conclusion of their studies, graduates of the Master of Cyber Forensics and Security and the Master of Science in Applied Cybersecurity and Digital Forensics degrees 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.

In addition to the above, course objectives for each course will be assessed.

Survey drafting and data collection staff:

Amber Chatellier, ITM Department Manager
Angela Jarka, ITM Assistant Department Coordinator

Assessment Evaluators:*ITM Curriculum Committee*

The Curriculum Committee evaluates Survey Artifacts and makes 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
Louis F. McHugh IV, SAT Computer Systems Manager and Adjunct Industry Professor
Thomas “T.J.” Johnson, Adjunct Industry Professor
Sheik “Sam” Shamsuddin, Adjunct Industry Professor; College of DuPage
Professor and Computer Information System Program Coordinator
Faculty: C. Robert Carlson, ITM Chair and Professor
Karl Stolley, Associate Professor (joint appointment)
Maurice Dawson, Director, Center for Cyber Security and Forensics Education
and Assistant Professor
Yong Zheng, Assistant Professor
Adarsh Arora, Coleman Entrepreneur-in-Residence and Industry Professor
William Lidinsky, Industry Professor
James Pappademas, Industry Professor

All faculty members may be appointed as assessment evaluators for Assignment Artifacts.