| | | **Program Assessment Plan** |
|---|---|---|
| **level** | *bachelors* | *Bachelor of Information Technology and Management* |
| **program** | *BAC-ITM-2* | *BAC-ITM-2 **AND** BAC-ITMF-2* |
| | if not found, list here: | |
| **AU or program authority** | *ITM* | |
| **constructed by** | *Ray Trygstad* | |
| **date** | *16-Oct-23* | |
| **program assessment coordinator** | *Gurram Gopal* | |
| **email** | gopal@iit.edu | |

| | | |
|---|---|---|
| Learning Objectives | **LO #1** | Problem solve and create innovative answers to provide technology solutions for the problems of business, industry, government, non-profit organizations, and individuals. (Program Educational Objective 1) |
| | **LO #2** | Perform requirements analysis, design, and administration of secure 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. (Program Educational Objective 2) |
| | **LO #3** | Apply current industry, technical, and mathematical concepts and practices in the core information technologies and recognize the need to engage in continuing professional development. (Program Educational Objective 3) |
| | **LO #4** | Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions [ABET Computing 3.1] |
| | **LO #5** | Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline [ABET Computing 3.2] |
| | **LO #6** | Communicate effectively in a variety of professional contexts [ABET Computing 3.3] |
| | **LO #7** | Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles [ABET Computing 3.4] |
| | LO #8 | Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline [ABET Computing 3.5] |
| | LO #9 | Identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems [ABET IT 3.6] |
| | LO #10 | Assist in the creation of an effective project plan[Illinois Tech ITM Dept. only] |

Describe which LOs will be assessed and reported in which year.
If data will be collected but not assessed and reported, say that.
If no activities will be conducted, say that.

All LOs must be assessed in some year for a complete plan

| | Year | |
|---|---|---|
| Yearly Assessment Plans | AY24 | LO #1, LO #3, LO #4, LO #5, LO #6, LO #9, LO #10 |
| | **AY25** | LO #2, LO #4, LO #5, LO #7, LO #9 |
| | AY26 | LO #3, LO #5, LO #7, LO #8, LO #10 |
| | AY27 | LO #1, LO #4, LO #6, LO #9 |
| | AY28 | LO #2, LO #5, LO #7, LO #8, LO #10 |
| | AY29 | LO #1, LO #4, LO #6, LO #9 |
| | AY30 | LO #2, LO #5, LO #7, LO #8, LO #10 |
| | AY31 | LO #1, LO #4, LO #6, LO #9 |

Describe Assessment Report Dissemination and Continuous Improvement Plans

Assessment Reports are disseminated to all full-time faculty and Curriculum Committee members.
Continuous Improvement is the responsibility of the Department of Information Technology and Management Curriculum Committee who will consider the following inputs:
- Assessment Reports
- External reviews of departmental programs
- External curricular recommendations and requirements
  (ACM model curricula, ABET accreditation criteria, NSA/CISA CAE designation requirements,
   NICE and DoD Cybersecurity Workforce Frameworks, etc.)
- Student critiques
- Input from Industry Advisory Boards and program alumni
- Faculty proposals for course revisions, new courses, and curriculum revisions

Based on these inputs the Curriculum Committee will propose necessary course revisions, new courses, curriculum revisions, and new programs.

| | | level | *bachelors* |
|---|---|---|---|
| | | program | ITM |
| | | constructed by | Ray Trygstad |
| | | date | 16-Oct-23 |

# Curriculum Map ver 1.0
*Bachelor of Information Technology and Management*
*enter LOs and required classes,*
*then enter one of the following in table:* **X** *- contributes;* **I** *- introduced;* **D** *- developed;* **A** *- assessed*
*BAC-ITM-2 AND BAC-ITMF-2*

| required classes | LO #1 | LO #2 | LO #3 | LO #4 | LO #5 | LO #6 | LO #7 | LO #8 | LO #9 | LO #10 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Problem solve and create innovative answers to provide technology solutions for the problems of business, industry, government, non-profit organizations, and individuals. (Program Educational Objective 1) | Perform requirements analysis, design, and administration of secure 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. (Program Educational Objective 2) | Apply current industry, technical, and mathematical concepts and practices in the core information technologies and recognize the need to engage in continuing professional development. (Program Educational Objective 3) | Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions [ABET Computing 3.1] | Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline [ABET Computing 3.2] | Communicate effectively in a variety of professional contexts [ABET Computing 3.3] | Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles [ABET Computing 3.4] | Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline [ABET Computing 3.5] | Identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems [ABET IT 3.6] | Assist in the creation of an effective project plan[Illinois Tech ITM Dept. only] |
| ITM 301 | I | | | | I | | I | | | |
| ITM 303 | I | | | | I | | I | | | |
| ITM 311 | | I | | I | I | | | | I | |
| ITM 313 | | | | I | I | | | | | |
| ITMD 321 | D | | I | D | D | | | | I | |
| ITMD 361 | | | I | I | D | I | | | | |
| ITMD 362 | | I | | D | A | D | | | D | |
| ITMD 411 | A | | A | A | A | | | | A | |
| ITMM 471 | | | D | | | D | D | D | D | D |
| ITMO 340 | | I | | D | D | | | | D | |
| ITMO 356 | | I | | | D | | | | D | |
| ITMS 448 | | D | | D | | A | | A | | A |
| ITMT 330 | | | I | | | A | A | I | | I |
| ITMT 430 | A | A | A | A | A | | | A | A | A |

| level | bachelors | **Program Assessment Plan** |
|---|---|---|
| program | BS-ACIT-1 | *Bachelor of Science in Applied Cybersecurity and Information Technology* |
| | **if not found, list here:** | |

| | | |
|---|---|---|
| AU or program authority | *ITM* | |
| constructed by | *Ray Trygstad* | |
| date | *16-Oct-23* | |
| program assessment coordinator | *Gurram Gopal* | |
| email | gopal@iit.edu | |

| | | |
|---|---|---|
| **Learning Objectives** | **LO #1** | Problem solve and create innovative answers to provide technology solutions for the problems of business, industry, government, non-profit organizations, and individuals. (Program Educational Objective 1) |
| | **LO #2** | Perform requirements analysis, design, and administration of secure 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. (Program Educational Objective 2) |
| | **LO #3** | Apply current industry, technical, and mathematical concepts and practices in the core information technologies and recognize the need to engage in continuing professional development. (Program Educational Objective 3) |
| | **LO #4** | Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions [ABET Computing 3.1] |
| | **LO #5** | Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline [ABET Computing 3.2] |
| | **LO #6** | Communicate effectively in a variety of professional contexts [ABET Computing 3.3] |
| | **LO #7** | Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles [ABET Computing 3.4] |
| | **LO #8** | Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline [ABET Computing 3.5] |
| | **LO #9** | Identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems [ABET IT 3.6] |
| | **LO #10** | Assist in the creation of an effective project plan [Illinois Tech ITM Dept. only] |
| | **LO #11** | Design and implement an enterprise security program using policy, technology, and awareness to implement appropriate controls and technically secure enterprise information assets and resources to deter, detect, and prevent the success of attacks and intrusions. (Program Educational Objective 4) |
| | **LO #12** | Investigate information security incidents and violation of law using computer resources in a manner such that all evidence is usable for fault analysis and, when applicable, admissible in a court of law. (Program Educational Objective 5) |
| | **LO #13** | Apply security principles and practices to maintain operations in the presence of risks and threats [ABET CY 3.6] |

Describe which LOs will be assessed and reported in which year.
If data will be collected but not assessed and reported, say that.
If no activities will be conducted, say that.

All LOs must be assessed in some year for a complete plan

| | Year | |
|---|---|---|
| **Yearly Assessment Plans** | AY24 | LO #1, LO #3, LO #4, LO #5, LO #6, LO #9, LO #10, LO #11, LO #12, LO #13 |
| | **AY25** | LO #2, LO #4, LO #5, LO #7, LO #9, LO #11 |
| | AY26 | LO #3, LO #5, LO #7, LO #8, LO #10, LO #12 |
| | AY27 | LO #1, LO #4, LO #6, LO #9, LO #11, LO #13 |
| | AY28 | LO #2, LO #5, LO #7, LO #8, LO #10, LO #12 |
| | AY29 | LO #1, LO #4, LO #6, LO #9, LO #11, LO #13 |
| | AY30 | LO #2, LO #5, LO #7, LO #8, LO #10, LO #12 |
| | AY31 | LO #1, LO #4, LO #6, LO #9, LO #11, LO #13 |

Describe Assessment Report Dissemination and Continuous Improvement Plans

Assessment Reports are disseminated to all full-time faculty and Curriculum Committee members.
Continuous Improvement is the responsibility of the Department of Information Technology and Management Curriculum Committee who will consider the following inputs:
- Assessment Reports
- External reviews of departmental programs
- External curricular recommendations and requirements
  (ACM model curricula, ABET accreditation criteria, NSA/CISA CAE designation requirements,
   NICE and DoD Cybersecurity Workforce Frameworks, etc.)
- Student critiques
- Input from Industry Advisory Boards and program alumni
- Faculty proposals for course revisions, new courses, and curriculum revisions

Based on these inputs the Curriculum Committee will propose necessary course revisions, new courses, curriculum revisions, and new programs.

| | | |
|---|---|---|
| **level** | *bachelors* | |
| **program** | ACIT | |
| **constructed by** | Ray Trygstad | |
| **date** | 16-Oct-23 | |

**Curriculum Map ver 1.0**
*Bachelor of Science in Applied Cybersecurity and Information Technology*
enter LOs and required classes,
then enter one of the following in table: **X** - contributes;  **I** - introduced;  **D** - developed;  **A** - assessed

| required classes | LO #1 | LO #2 | LO #3 | LO #4 | LO #5 | LO #6 | LO #7 | LO #8 | LO #9 | LO #10 | LO #11 | LO #12 | LO #13 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Problem solve and create innovative answers to provide technology solutions for the problems of business, industry, government, non-profit organizations, and individuals. (Program Educational Objective 1) | Perform requirements analysis, design, and administration of secure 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. (Program Educational Objective 2) | Apply current industry, technical, and mathematical concepts and practices in the core information technologies and recognize the need to engage in continuing professional development. (Program Educational Objective 3) | Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions [ABET Computing 3.1] | Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline [ABET Computing 3.2] | Communicate effectively in a variety of professional contexts [ABET Computing 3.3] | Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles [ABET Computing 3.4] | Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline [ABET Computing 3.5] | Identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems [ABET IT 3.6] | Assist in the creation of an effective project plan [Illinois Tech ITM Dept. only] | Design and implement an enterprise security program using policy, technology, and awareness to implement appropriate controls and technically secure enterprise information assets and resources to deter, detect, and prevent the success of attacks and intrusions. (Program Educational Objective 4) | Investigate information security incidents and violation of law using computer resources in a manner such that all evidence is usable for fault analysis and, when applicable, admissible in a court of law. (Program Educational Objective 5) | Apply security principles and practices to maintain operations in the presence of risks and threats [ABET CY 3.6] |
| ITM 301 | I | | | | I | | I | | | | | | I |
| ITM 303 | I | | | | I | | I | | | | | | |
| ITM 311 | | I | | I | I | | | | | I | | | |
| ITM 313 | | | | I | I | | | | | | | | |
| ITMD 321 | D | | I | D | D | | | | I | | | | |
| ITMD 361 | | | I | I | D | I | | | | | | | |
| ITMD 362 | | I | | D | A | D | | | D | | | | |
| ITMD 411 | A | | A | A | A | | | | A | | | | |
| ITMM 471 | | | | | | D | D | D | D | D | | | |
| ITMM 485 | | | | | | | A | D | | | D | | |
| ITMO 340 | | | D | D | | | | | D | | | | |
| ITMO 356 | | | | D | | | | | D | | | | |
| ITMS 418 | | | | | | | | | | | | | D |
| ITMS 438 | | | | | | | | | | | | I | |
| ITMS 443 | | | | | | | | | | | I | | D |
| ITMS 448 | | D | | D | | A | | A | | A | A | | A |
| ITMS 458 | | | | | | | | | | | | | D |
| ITMS 478 | | | | | | | | | | | A | D | A |
| ITMS 483 | | | | | | | | | | | | A | |
| ITMT 330 | | I | | | | A | A | I | | I | | | I |
| ITMT 430 | A | A | A | A | A | | | A | A | A | | | A |

| | | |
|---|---|---|
| **level** | *bachelors* | **Program Assessment Plan** |
| **program** | | *Bachelor of Information Technology* |
| | if not found, list here: | *BAC-ITEC (Coursera)* |
| **AU or program authority** | *ITM* | |
| **constructed by** | *Ray Trygstad* | |
| **date** | *16-Oct-23* | |
| **program assessment coordinator** | *Gurram Gopal* | |
| **email** | gopal@iit.edu | |

| | | |
|---|---|---|
| Learning Objectives | **LO #1** | Problem solve, create, and effectively communicate innovative answers to provide cloud-based technology solutions for the problems of business, industry, government, non-profit organizations, and individuals (Program Educational Objective 1) |
| | **LO #2** | Perform requirements analysis, design and administration of secure cloud-based systems conforming to policy and best practices, and monitor and support continuing development of relevant policy and best practices as appropriate (Program Educational Objective 2) |
| | **LO #3** | Apply current industry, technical, and mathematical concepts and practices in cloud computing and recognize the need to engage in continuing professional development. (Program Educational Objective 3) |

Describe which LOs will be assessed and reported in which year.
If data will be collected but not assessed and reported, say that.
If no activities will be conducted, say that.

All LOs must be assessed in some year for a complete plan

| | Year | |
|---|---|---|
| Yearly Assessment Plans | AY24 | LO #1 |
| | **AY25** | LO #2 |
| | AY26 | LO #3 |
| | AY27 | LO #1 |
| | AY28 | LO #2 |
| | AY29 | LO #1 |
| | AY30 | LO #2 |
| | AY31 | LO #1 |

Describe Assessment Report Dissemination and Continuous Improvement Plans

Assessment Reports are disseminated to all full-time faculty and Curriculum Committee members.
Continuous Improvement is the responsibility of the Department of Information Technology and Management Curriculum Committee who will consider the following inputs:
- Assessment Reports
- External reviews of departmental programs
- External curricular recommendations and requirements
  (ACM model curricula, ABET accreditation criteria, NSA/CISA CAE designation requirements,
   NICE and DoD Cybersecurity Workforce Frameworks, etc.)
- Student critiques
- Input from Industry Advisory Boards and program alumni
- Faculty proposals for course revisions, new courses, and curriculum revisions

Based on these inputs the Curriculum Committee will propose necessary course revisions, new courses, curriculum revisions, and new programs.

| | level | bachelors |
|---|---|---|
| | program | ITM |
| | constructed by | Ray Trygstad |
| | date | 16-Oct-23 |

**Curriculum Map ver 1.0**
*Bachelor of Information Technology and Management*
enter LOs and required classes,
then enter one of the following in table: **X** - contributes; **I** - introduced; **D** - developed; **A** - assessed
*BAC-ITEC (Coursera)*

| required classes | LO #1 | LO #2 | LO #3 |
|---|---|---|---|
| | Problem solve, create, and effectively communicate innovative answers to provide cloud-based technology solutions for the problems of business, industry, government, non-profit organizations, and individuals (Program Educational Objective 1) | Perform requirements analysis, design and administration of secure cloud-based systems conforming to policy and best practices, and monitor and support continuing development of relevant policy and best practices as appropriate (Program Educational Objective 2) | Apply current industry, technical, and mathematical concepts and practices in cloud computing and recognize the need to engage in continuing professional development. (Program Educational Objective 3) |
| ITM 301* | I | I | I |
| ITM 313 | I | I | I |
| ITMD 321 | D | | D |
| ITMD 361 | D | D | D |
| ITMD 413 | A | | A |
| ITMM 471 | | | D |
| ITMO 340 | | I | |
| ITMO 356 | | I | |
| ITMO 444 | | D | D |
| ITMO 454 | D | D | |
| ITMO 463 | D | D | |
| ITMO 464 | D | D | |
| ITMO 465 | D | D | |
| ITMS 448 | | D | |
| ITMS 464 | | A | A |
| ITMT 430 | A | A | A |
| *Delivered as ITM 701, ITM 702, & ITM 703 | | | |

| | | | |
|---|---|---|---|
| **level** | *masters* | | **Program Assessment Plan** |
| **program** | *MAS-ITM-2* | | *Master of Information Technology and Management* |

| | |
|---|---|
| | **if not found, list here:** |
| **AU or program authority** | *ITM* |
| **constructed by** | *Ray Trygstad* |
| **date** | *16-Oct-23* |
| **program assessment coordinator** | *Gurram Gopal* |
| **email** | gopal@iit.edu |

| Learning Objectives | **LO #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. |
|---|---|---|
| | **LO #2** | Work with, lead, and manage teams in an enterprise environment to collaboratively arrive at optimal technology solutions. |
| | **LO #3** | Manage and deploy information resources applicable to each student's particular area of focus in an enterprise setting. |

Describe which LOs will be assessed and reported in which year.
If data will be collected but not assessed and reported, say that.
If no activities will be conducted, say that.

All LOs must be assessed in some year for a complete plan

| | Year | |
|---|---|---|
| Yearly Assessment Plans | AY24 | LO #1, LO #3 |
| | AY25 | LO #2 |
| | AY26 | LO #1 |
| | AY27 | LO #2 |
| | AY28 | LO #3 |
| | AY29 | LO #1 |
| | AY30 | LO #2 |
| | AY31 | LO #3 |

Describe Assessment Report Dissemination and Continuous Improvement Plans

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- Student critiques
- Input from Industry Advisory Boards and program alumni
- Faculty proposals for course revisions, new courses, and curriculum revisions

Based on these inputs the Curriculum Committee will propose necessary course revisions, new courses, curriculum revisions, and new programs.

| | level | *masters* | | **Curriculum Map ver 1.0** | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | program | *MAS-ITM-2* | | *Master of Information Technology and Management* | | | | |
| | constructed by | *Ray Trygstad* | | *enter LOs and required classes,* | | | | |
| | date | *10/16/2023* | | *then enter one of the following in table:* **X** *- contributes;* **I** *- introduced;* **D** *- developed;* **A** *- assessed* | | | | |

| **Representative required classes** (Each of 9 specializations has 3 to 6 required courses, but all required courses from all specializations are shown) | **LO #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. | **LO #2** Work with, lead, and manage teams in an enterprise environment to collaboratively arrive at optimal technology solutions. | **LO #3** Manage and deploy information resources applicable to each student's particular area of focus in an enterprise setting. | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ITMD 510 (6)* | D | | D | | | | |
| ITMD 511 | D | | D | | | | |
| ITMD 514 | D | | D | | | | |
| ITMD 515 | A | | A | | | | |
| ITMD 521 | D | | D | | | | |
| ITMD 522 | A | | A | | | | |
| ITMD 523 (2)* | D | | D | | | | |
| ITMD 526 | D | | D | | | | |
| ITMD 534 (3)* | A | A | A | | | | |
| ITMD 536 (2)* | A | | A | | | | |
| ITMD 541 (2)* | D | | D | | | | |
| ITMD 542 | D | | D | | | | |
| ITMD 547 | A | | A | | | | |
| ITMD 556 | D | | D | | | | |
| ITMD 566 | D | | D | | | | |
| ITMM 570 | I | I | | | | | |
| ITMM 571 | | A | D | | | | |
| ITMM 572 | D | | | | | | |
| ITMM 574 | A | | A | | | | |
| ITMM 581 | D | D | | | | | |
| ITMM 582 (3)* | A | A | | | | | |
| ITMO 540 (2)* | I | | I | | | | |
| ITMO 556 (3)* | I | | I | | | | |
| ITMS 514 | D | | D | | | | |
| ITMS 528 | D | | D | | | | |
| ITMS 548 | A | | A | | | | |
| ITMS 578 | A | A | A | | | | |
| ITMT 531 (2)* | D | | | | | | |
| ITMT 593 | A | | A | | | | |

\* This course appears in multiple specializations with that number shown in perens.

|  |  |  |
|---|---|---|
| **level** | *masters* | **Program Assessment Plan** |
| **program** | *MAS-CYF-1* | *Master of Cyber Forensics and Security* |
|  | **if not found, list here:** |  |
| **AU or program authority** | *ITM* |  |
| **constructed by** | *Ray Trygstad* |  |
| **date** | *16-Oct-23* |  |
| **program assessment coordinator** | *Gurram Gopal* |  |
| **email** | gopal@iit.edu |  |

| Learning Objectives | **LO #1** | Design and implement a comprehensive enterprise security program using both policy and technology to implement technical, operational, and managerial controls. |
|---|---|---|
|  | **LO #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. |
|  | **LO #3** | Technically secure enterprise information assets and resources to deter, detect, and prevent the success of attacks and intrusions. |

Describe which LOs will be assessed and reported in which year.
If data will be collected but not assessed and reported, say that.
If no activities will be conducted, say that.

All LOs must be assessed in some year for a complete plan

| Yearly Assessment Plans | Year |  |
|---|---|---|
|  | AY24 | LO #1, LO #3 |
|  | AY25 | LO #2 |
|  | AY26 | LO #1 |
|  | AY27 | LO #2 |
|  | AY28 | LO #3 |
|  | AY29 | LO #1 |
|  | AY30 | LO #2 |
|  | AY31 | LO #3 |

Describe Assessment Report Dissemination and Continuous Improvement Plans

Assessment Reports are disseminated to all full-time faculty and Curriculum Committee members.

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- Assessment Reports
- External reviews of departmental programs
- External curricular recommendations and requirements (ACM model curricula, ABET accreditation criteria, NSA/CISA CAE designation requirements, NICE and DoD Cybersecurity Workforce Frameworks, etc.)
- Student critiques
- Input from Industry Advisory Boards and program alumni
- Faculty proposals for course revisions, new courses, and curriculum revisions

Based on these inputs the Curriculum Committee will propose necessary course revisions, new courses, curriculum revisions, and new programs.

| | | level | masters |
| | | program | MAS-CYF-1 |
| | | constructed by | Ray Trygstad |
| | | date | 10/16/2023 |

**Curriculum Map ver 1.0**

*Master of Cyber Forensics and Security*

*enter LOs and required classes,*
*then enter one of the following in table:* **X** *- contributes;* **I** *- introduced;* **D** *- developed;* **A** *- assessed*

| required classes and other required program elements (exams etc) | LO #1 | LO #2 | LO #3 | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Design and implement a comprehensive enterprise security program using both policy and technology to implement technical, operational, and managerial controls. | 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. | Technically secure enterprise information assets and resources to deter, detect, and prevent the success of attacks and intrusions. | | | | | |
| ITMM 585 | D | | | | | | | |
| ITMS 538 | I | I | I | | | | | |
| ITMS 543 | I | | I | | | | | |
| ITMS 548 | A | D | A | | | | | |
| ITMS 578 | A | D | D | | | | | |
| ITMS 583 | D | A | | | | | | |

| | | |
|---|---|---|
| **level** | *masters* | |
| **program** | *MS-ITM-1* | |
| | **if not found, list here:** | |
| **AU or program authority** | *ITM* | |
| **constructed by** | *Ray Trygstad* | |
| **date** | *16-Oct-23* | |
| **program assessment coordinator** | *Gurram Gopal* | |
| **email** | gopal@iit.edu | |

<div align="center">

**Program Assessment Plan**
*Master of Science in Information Technology and Management*

</div>

| | | |
|---|---|---|
| Learning Objectives | **LO #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. |
| | **LO #2** | Work with, lead, and manage teams in an enterprise environment to collaboratively arrive at optimal technology solutions. |
| | **LO #3** | Manage and deploy information resources applicable to each student's particular area of focus in an enterprise setting. |
| | **LO #4** | Apply mathematics and technical skills to research and innovation in the field. |

<div align="center">

Describe which LOs will be assessed and reported in which year.
If data will be collected but not assessed and reported, say that.
If no activities will be conducted, say that.

All LOs must be assessed in some year for a complete plan

</div>

| | Year | |
|---|---|---|
| Yearly Assessment Plans | AY24 | LO #1, LO #3, LO #4 |
| | AY25 | LO #2 |
| | AY26 | LO #1 |
| | AY27 | LO #2, LO #4 |
| | AY28 | LO #3 |
| | AY29 | LO #1 |
| | AY30 | LO #2, LO #4 |
| | AY31 | LO #3 |

<div align="center">

Describe Assessment Report Dissemination and Continuous Improvement Plans

</div>

Assessment Reports are disseminated to all full-time faculty and Curriculum Committee members.

Continuous Improvement is the responsibility of the Department of Information Technology and Management Curriculum Committee who will consider the following inputs:
- Assessment Reports
- External reviews of departmental programs
- External curricular recommendations and requirements (ACM model curricula, ABET accreditation criteria, NSA/CISA CAE designation requirements, NICE and DoD Cybersecurity Workforce Frameworks, etc.)
- Student critiques
- Input from Industry Advisory Boards and program alumni
- Faculty proposals for course revisions, new courses, and curriculum revisions

Based on these inputs the Curriculum Committee will propose necessary course revisions, new courses, curriculum revisions, and new programs.

| | | | | | | |
|---|---|---|---|---|---|---|
| **level** | *masters* | | | **Curriculum Map ver 1.0** | | |
| **program** | *MS-ITM-1* | | | *Master of Science in Information Technology and Management* | | |
| **constructed by** | *Ray Trygstad* | | | *enter LOs and required classes,* | | |
| **date** | *10/16/2023* | | | *then enter one of the following in table: **X** - contributes; **I** - introduced; **D** - developed; **A** - assessed* | | |

| Representative required classes (Students select one Core Course each from Software Development, System Technologies, and Business Development) | LO #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. | LO #2 Work with, lead, and manage teams in an enterprise environment to collaboratively arrive at optimal technology solutions. | LO #3 Manage and deploy information resources applicable to each student's particular area of focus in an enterprise setting. | LO #4 Apply mathematics and technical skills to research and innovation in the field. | | |
|---|---|---|---|---|---|---|
| ITMD 515 (Software Development) | A | | A | | | |
| ITMD 534 (Software Development) | A | A | A | | | |
| ITMM 571 (Business Development) | | A | D | | | |
| ITMM 574 (Business Development) | A | | A | | | |
| ITMM 582 (Business Development) | A | A | | A | | |
| ITMS 548 (System Technologies) | | | | | | |
| ITMS 578 (Business Development) | A | A | A | | | |
| ITMT 593 (System Technologies) | A | | A | | | |

Courses assessed in the Master of Information Technology and Management program are shown above as these would be the Core Courses assessed in this degree as well. Otherwise this Curriculum Map would show 31 courses from which students select 3.

| ITMT 591 or ITMT 594 or ITMT 597 (Research or Project) | | | | A | | |
|---|---|---|---|---|---|---|

| | | |
|---|---|---|
| **level** | *masters* | |
| **program** | *MS-ACDF-1* | |
| | **if not found, list here:** | |
| **AU or program authority** | *ITM* | |
| **constructed by** | *Ray Trygstad* | |
| **date** | *16-Oct-23* | |
| **program assessment coordinator** | *Gurram Gopal* | |
| **email** | gopal@iit.edu | |

<div align="center">

**Program Assessment Plan**
*Master of Science in Applied Cybersecurity and Digital Forensics*

</div>

| | | |
|---|---|---|
| Learning Objectives | **LO #1** | Design and implement a comprehensive enterprise security program using both policy and technology to implement technical, operational, and managerial controls. |
| | **LO #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. |
| | **LO #3** | Technically secure enterprise information assets and resources to deter, detect, and prevent the success of attacks and intrusions. |
| | **LO #4** | Conduct and report on significant research in the areas of cybersecurity and/or digital forensics. |

<div align="center">

Describe which LOs will be assessed and reported in which year.
If data will be collected but not assessed and reported, say that.
If no activities will be conducted, say that.

All LOs must be assessed in some year for a complete plan

</div>

| | Year | |
|---|---|---|
| Yearly Assessment Plans | AY24 | LO #1, LO #3 |
| | AY25 | LO #2, LO #4 |
| | AY26 | LO #1 |
| | AY27 | LO #2, LO #4 |
| | AY28 | LO #3 |
| | AY29 | LO #1 |
| | AY30 | LO #2, LO #4 |
| | AY31 | LO #3 |

<div align="center">

Describe Assessment Report Dissemination and Continuous Improvement Plans

</div>

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- Student critiques
- Input from Industry Advisory Boards and program alumni
- Faculty proposals for course revisions, new courses, and curriculum revisions

Based on these inputs the Curriculum Committee will propose necessary course revisions, new courses, curriculum revisions, and new programs.

| | | | | |
|---|---|---|---|---|
| **level** | *masters* | | **Curriculum Map ver 1.0** | |
| **program** | *MS-ACDF-1* | | *Master of Science in Applied Cybersecurity and Digital Forensics* | |
| **constructed by** | *Ray Trygstad* | | *enter LOs and required classes,* | |
| **date** | *10/16/2023* | | *then enter one of the following in table:* **X** *- contributes;* **I** *- introduced;* **D** *- developed;* **A** *- assessed* | |

| required classes and other required program elements (exams etc) | LO #1 Design and implement a comprehensive enterprise security program using both policy and technology to implement technical, operational, and managerial controls. | LO #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. | LO #3 Technically secure enterprise information assets and resources to deter, detect, and prevent the success of attacks and intrusions. | LO #4 Conduct and report on significant research in the areas of cybersecurity and/or digital forensics. | | | | |
|---|---|---|---|---|---|---|---|---|
| ITMS 538 | I | I | I | | | | | |
| ITMS 539 or ITMS 549 (Master's Project Option only) | | | | I | | | | |
| ITMS 543 | I | | I | | | | | |
| ITMS 548 | A | D | A | | | | | |
| ITMS 578 | A | D | D | | | | | |
| LAW 273 (not our course) | | A | | | | | | |
| ITMT 591 or ITMT 594 or ITMT 597 | | | | A | | | | |
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| | | Program Assessment Plan |
|---|---|---|
| **level** | *masters* | **Program Assessment Plan** |
| **program** | | *Bachelor of Information Technology* |
| | *if not found, list here:* | *MAS-ITEC (Coursera)* |
| **AU or program authority** | *ITM* | |
| **constructed by** | *Ray Trygstad* | |
| **date** | *16-Oct-23* | |
| **program assessment coordinator** | *Gurram Gopal* | |
| **email** | gopal@iit.edu | |

| | | |
|---|---|---|
| Learning Objectives | **LO #1** | Deliver optimal technical and policy cloud computing solutions for the problems of business, industry, government, non-profit organizations, and individuals |
| | **LO #2** | Manage and deploy secure cloud-based information resources in an enterprise setting |
| | **LO #3** | Pursue a diverse range of careers in cloud computing |

Describe which LOs will be assessed and reported in which year.
If data will be collected but not assessed and reported, say that.
If no activities will be conducted, say that.

All LOs must be assessed in some year for a complete plan

| | Year | |
|---|---|---|
| | AY24 | LO #1 |
| | **AY25** | LO #2 |
| | AY26 | LO #3 |
| Yearly Assessment Plans | AY27 | LO #1 |
| | AY28 | LO #2 |
| | AY29 | LO #1 |
| | AY30 | LO #2 |
| | AY31 | LO #1 |

Describe Assessment Report Dissemination and Continuous Improvement Plans

Assessment Reports are disseminated to all full-time faculty and Curriculum Committee members. Continuous Improvement is the responsibility of the Department of Information Technology and Management Curriculum Committee who will consider the following inputs:
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  (ACM model curricula, ABET accreditation criteria, NSA/CISA CAE designation requirements, NICE and DoD Cybersecurity Workforce Frameworks, etc.)
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Based on these inputs the Curriculum Committee will propose necessary course revisions, new courses, curriculum revisions, and new programs.

| | | | |
|---|---|---|---|
| **level** *masters* | | **Curriculum Map ver 1.0** | |
| **program** ITM | | *Bachelor of Information Technology and Management* | |
| **constructed by** Ray Trygstad | | *enter LOs and required classes,* | |
| **date** 16-Oct-23 | | *then enter one of the following in table:* **X** *- contributes;* **I** *- introduced;* **D** *- developed;* **A** *- assessed* | |
| | | *MAS-ITEC (Coursera)* | |

| required classes | LO #1 | LO #2 | LO #3 |
|---|---|---|---|
| | Deliver optimal technical and policy cloud computing solutions for the problems of business, industry, government, non-profit organizations, and individuals | Manage and deploy secure cloud-based information resources in an enterprise setting | Pursue a diverse range of careers in cloud computing |
| ITMO 503* | I | I | I |
| ITMD 504 | I | I | I |
| ITMD 513 | A | | A |
| ITMO 540 | | I | |
| ITMO 556 | | I | |
| ITMO 544 | | D | D |
| ITMO 554 | D | D | |
| Select 2 of the following 3 courses | | | |
| ITMO 563 | D | D | |
| ITMO 564 | D | D | |
| ITMO 565 | D | D | |
| ITMS 564 | | A | A |
| *Delivered as ITM 705, ITM 706, & ITM 707 | | | |