COVID-19 Disclaimer: Policy, conditions, and practices described here may vary due to contingencies related to the COVID-19 pandemic.

**ILLINOIS TECH | College of Computing**

**ITM Graduate Student Information**

**Fall 2021**

**Department of Information Technology & Management Master’s Degrees**

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**Information Technology & Management Mission**

Educate and inform students to prepare them to assume technical and managerial leadership in the information technology field.

**About the Department of Information Technology & Management**

Courses from our department are available at Illinois Tech’s Chicago Mies Campus live or via videoconferencing, at remote locations via IITV and the Internet, and on rare occasions at our Rice Campus in Wheaton. Courses are offered on a semester basis with the fall semester beginning in late August and the Spring semester beginning in mid-January. Because of the strong hands-on emphasis of these programs, many courses will include a laboratory or laboratory exercises. Lecture courses normally will meet two days a week for 75 minutes each session, or once a week for 150 minutes. Lab courses normally will meet two days a week for 100 minutes each session, or once a week for 200 minutes. We have many adjunct faculty members who work each day in the discipline they are teaching, so many course offerings are in the evening or on Saturday morning when they are available to teach. To meet the needs of full-time students, we offer as many daytime classes as possible, and in most cases these courses will be available online for part-time students. Lecture-only evening courses normally run 6:25pm to 9:05pm one day each week. Evening courses with laboratories will normally run from 5:35pm to 9:05pm one day each week. This may vary in response to the COVID-19 pandemic.

**Course Philosophy**

Information Technology & Management courses are a careful blend of theory and practical application.

- **Applications**: A core goal of the Department of Information Technology & Management is to teach you practical, hands-on, applied knowledge that can lead to immediate employment in the information technology field. To this end, ITM courses will teach the latest applications and tools used in the field, maximizing your opportunities to make hands-on use of these application and tools. In many instances courses will be tracked to existing industry certification requirements, giving immediate employment credibility to course content. Course tracking will be to vendor-neutral certifications to the greatest extent possible but this does not preclude the teaching of vendor-specific material when appropriate.

- **Theory**: While the stress of courses in the Department of Information Technology & Management is principally practical, given the scope and rapidity of change within the information technology industry a solid grounding in theory is necessary to equip you to cope with the emergence of new technologies and to advance in your career in the field. A good grounding in theory is necessary to meet the goals of a university education, equipping you with critical thinking skills and the ability to see beyond “plug-and-chug” solutions all too commonly found in information technology training courses. This allows you to reason out solutions to problems rather than relying on canned solutions and blind adherence to procedure.

**Program Objectives**

**Master of Information Technology & Management Objectives**

At the conclusion of their studies, graduates of this degree should be able to:

- 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.
- Work with, lead, and manage teams in an enterprise environment to collaboratively arrive at optimal technology solutions.
- Manage and deploy information resources applicable to each student’s particular area of focus in an enterprise setting.
**Master of Cyber Forensics and Security Objectives**
At the conclusion of their studies, graduates of this degree should be able to:
- 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.

**Master of Science in Applied Cybersecurity and Digital Forensics Objectives**
At the conclusion of their studies, graduates of this degree should be able to:
- 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.
- Conduct and report on significant research in the areas of cybersecurity and/or digital forensics.

**Master of Science in Information Technology & Management Objectives**
At the conclusion of their studies, graduates of this degree should be able to:
- 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.
- Work with, lead, and manage teams in an enterprise environment to collaboratively arrive at optimal technology solutions.
- Manage and deploy information resources applicable to each student’s particular area of focus in an enterprise setting.
- Conduct and report on significant research in the field of information technology.

**Graduate Bulletin**
The specific requirements for completion of your degree are in the applicable university bulletin. In most cases the bulletin in force in the year you entered the program governs your curriculum. Illinois Tech bulletins are published annually online only at [http://bulletin.iit.edu/](http://bulletin.iit.edu/). The following links will take you to the section of the Graduate Bulletin relevant to your degree and situation.

- **Master of Information Technology and Management**
  - Degree requirements: [http://bulletin.iit.edu/graduate/colleges/computing/information-technology-management/master-information-technology-management/#programrequirementstext](http://bulletin.iit.edu/graduate/colleges/computing/information-technology-management/master-information-technology-management/#programrequirementstext)
  - Specializations: [http://bulletin.iit.edu/graduate/colleges/computing/information-technology-management/master-information-technology-management/#specializationstext](http://bulletin.iit.edu/graduate/colleges/computing/information-technology-management/master-information-technology-management/#specializationstext)

- **Master of Cyber Forensics and Security**
  - Degree requirements: [http://bulletin.iit.edu/graduate/colleges/computing/information-technology-management/master-cyber-forensics-security/#programrequirementstext](http://bulletin.iit.edu/graduate/colleges/computing/information-technology-management/master-cyber-forensics-security/#programrequirementstext)

- **Master of Science in Information Technology and Management**
  - Degree requirements: [http://bulletin.iit.edu/graduate/colleges/computing/information-technology-management/ms-information-technology-management/#programrequirementstext](http://bulletin.iit.edu/graduate/colleges/computing/information-technology-management/ms-information-technology-management/#programrequirementstext)

- **Master of Science in Applied Cybersecurity and Digital Forensics**
  - Degree requirements: [http://graduate/colleges/computing/information-technology-management/ms-applied-cybersecurity-digital-forensics/#programrequirementstext](http://graduate/colleges/computing/information-technology-management/ms-applied-cybersecurity-digital-forensics/#programrequirementstext)

**More Details:** The Graduate Bulletin lists all of the graduate courses in the university with a brief course description for each. If you want more details for ITM courses, we are now posting a [Departmental Syllabus](http://bulletin.iit.edu/graduate/colleges/computing/information-technology-management/) for every ITM course, which offers much more information about what you will study in each course. The [ITM Departmental Syllabi](http://www.itm.iit.edu/faculty/itmdepartmentsyllabus.html) are available at [http://www.itm.iit.edu/faculty/itmdepartmentsyllabus.html](http://www.itm.iit.edu/faculty/itmdepartmentsyllabus.html). Currently only undergraduate courses are listed but we soon hope to have graduate courses listed as well.

**Graduate Course Differentiation**
When courses are offered with both undergraduate and graduate students enrolled in common lecture and/or lab meetings, course expectations, outcomes, assignments, and grading standards will be differentiated within the courses to reflect the higher level of achievement expected of graduate students. In accordance with expectations of our university accrediting agency, there must be a clear differentiation between undergraduate and graduate work in these cross-listed courses as described below.

- **Effort Expected of Graduate Students:** Graduate students are expected to demonstrate a substantively higher level of accomplishment than is expected of undergraduates. For valid academic reasons we have courses in our curricula which place both undergraduate and graduate students in the same classroom with the same lectures and other instructional material delivered to them.

- **Course Numbering:** Some courses are offered with both undergraduate and graduate sections sharing the same classroom instruction and instructor; this is reflected by the fact that the course will have both a 3xx or 4XX and a corresponding 5XX section numbers. As an example, ITMO 340 has a corresponding ITMO 540 course offering. Graduate students may not enroll in any course not a 5XX course except as a prerequisite.
Faculty Office Hours
Faculty members will be available to you outside of class. (During the COVID-19 contingency, this may be online only.)

- **Full-Time Faculty**: Full-time ITM faculty members and adjunct faculty members who are full-time Illinois Tech employees will establish and publish/post reasonable office hours. Office hours and location must be given on any course web sites or Blackboard and office hours should be posted prominently on the faculty members’ office door. The location and times of office hours should match the location (Rice Campus or Mies Campus) and times (day or evening) of the course. Faculty members should be present in their office for all posted office hours. When teaching a course that includes part-time students, faculty members should accommodate them by having some office hours on evenings and/or weekends. Additionally, faculty members must be available via email or other electronic means. During COVID-19 contingency operations, faculty members may only be available online.

- **Adjunct Faculty**: In normal circumstances, ITM adjunct faculty members should maintain one to two hours of physical presence office hours if possible, and must be available via email, chat, video conference, or other electronic means. They may keep virtual office hours via a chat application or instant messaging, but must ensure all students understand clearly how to contact them if this is their office hour method. Adjunct faculty members who are Illinois Tech staff members may elect to hold office hours in the office assigned to them for their staff position.

Communications
The Department of Information Technology and Management has several paths to communicate with students.

- **Illinois Tech Email**: Your official hawk.iit.edu email address is the primary method of communication between the ITM Department and you. It is important that you check your email often, and any requests from you to advisers or faculty members should come from your university email address. If we receive email from you from another address, you can expect that any response will go to your iit.edu email address, or that faculty members may not respond.

- **ITM Loopback Blog**: Important announcements, news and calendar events from the ITM Department will be published in our weekly newsletter which will be sent to your iit.edu email every Friday during the fall and spring semesters, and occasionally during the spring term.

- **ITM Loopback Blog**: Important announcements, news and calendar events from the ITM Department will be published in our weekly newsletter which will be sent to your iit.edu email every Friday during the fall and spring semesters, and occasionally during the summer term.

- **ITM Loopback Blog**: Important announcements, news and calendar events from the ITM Department will be published in our weekly newsletter which will be sent to your iit.edu email every Friday during the fall and spring semesters, and occasionally during the summer term.

- **The ITM Facebook Group**: https://www.facebook.com/ITMatIIT/.

Academic Honesty
Each student must read and ensure that you understand both the Code of Academic Honesty in the The Illinois Institute of Technology Student Handbook at https://web.iit.edu/student-affairs/handbook/fine-print/code-academic-honesty and the Information Technology and Management Policy on Academic Honesty Violations below. By ITM Department Policy, if you commit an Academic Honesty Violation at a minimum you will be assigned a grade of zero for the assignment; if it is a second offense you will be given a failing grade for the class and lose our approval for participation in Curricular Practical Training (CPT) and/or Co-op/Internship programs. On a third offense, we will recommend that you be expelled from the university.

INFORMATION TECHNOLOGY AND MANAGEMENT POLICY ON ACADEMIC HONESTY VIOLATIONS
Sanctions for Information Technology and Management students
When an Information Technology and Management student is found to be in violation of the academic honesty standards of the university, the faculty member involved should take the following steps:

1. **Identical or Substantively Identical Work**: If duplicate work is encountered when grading an item, assign a grade of zero for the assignment, quiz or exam on which the violation has occurred until the situation has been discussed with the students involved.
a. Discuss the situation with all students involved.
   b. If one student admits to having copied the work, or if there is clear evidence who is guilty, assign the guilty
      student a grade of zero and grant full credit to student who did the work.
   c. If no one admits to the offense or a reasonable determination of guilt cannot be made, assign each student
      involved a grade of zero.

2. Plagiarism: If a submitted item contains unattributed material that is not a student’s own work, assign a grade of
   zero for the assignment, quiz or exam on which the violation has occurred.

3. Sharing of Completed Work Online: This will automatically be treated with the same sanctions as a second
   Academic Honesty Violation.

4. In any case, submit an Academic Honesty Violation Report to the ITM Program Manager, Kayla Botica, PH 223,
   kbotica1@iit.edu, 312.567.5927.

5. If notified by the ITM Associate Chair that the violation is a second offense, expel the student from the course
   and assign a punitive failing grade.

When the ITM Program Manager is notified of a student violation of the academic honesty standards of the university,
the Program Manager will take the following steps:

1. Determine if the violation is a first, second or third offense by consulting the student’s ITM Department file
   and notify the ITM Associate Chair for undergraduate students.

2. If the violation is a first offense, the ITM Associate Chair will notify the Dean of the College of Computing and
   the Provost or the Provost’s designated deputy, and place a notation of the violation in the student’s ITM
   Department file.

3. If the violation is a second offense or is sharing of completed course work online, the ITM Associate Chair will
   notify the Dean of the College of Computing and the Provost or the Provost’s designated deputy; notify the
   faculty member who should expel the student from the course and assign a punitive failing grade; notify the
   Career Management Center and the International Office that the Department of Information Technology and
   Management’s approval for the student’s participation in Curricular Practical Training (CPT) and/or Co-op/Internship
   programs has been withdrawn for the current and next semesters; and place a notation of the violation in the
   student’s ITM Department file.

4. If the violation is a third offense, the ITM Associate Chair will perform the same steps as for a second offense
   and notify the Dean of the College of Computing that this is a third offense. The Dean will then recommend to
   the Provost or the Provost’s designated deputy that the student be expelled from the university.

Program and Course Prerequisites

Prerequisites for courses and degree programs may be fulfilled though prior college course work, industry
 certifications or experience, or credit by examination.

- **Graduate Prerequisite:** Although a bachelor’s degree is required for admission to the graduate degree program,
courses equivalent to the required prerequisite courses for the program, ITM 301, ITM 311 or 313, ITMD 361, and
ITMD 321 may be completed at many community colleges prior to enrollment in the degree program. Check with
an adviser to ensure that the course you have selected meets the equivalent ITM requirement.

- **Prerequisites for the Master of Cyber Forensics and Security and the Master of Science in Applied Cybersecurity and Digital Forensics:** These degrees require extensive prerequisites which may add an additional semester of study to the curriculum for students who have not fulfilled these requirements prior to enrolling. See the Graduate Bulletin for full details.

- **Waiver of Prerequisites Based on Certification or Experience:** Program or course prerequisites may be waived based on industry certifications or significant experience. This waiver can be granted for courses by advisers, course instructors of the course the prerequisite is required for, or the ITM Associate Chair, Ray Trygstad. See below for credit by examination information.

Credit by Examination

Credit by examination may be granted for any course as per current university policy as found in the Graduate Bulletin
at [https://bulletinnext.iit.edu/graduate/academic-policies-procedures/academic-progress/credit-by-examination/](https://bulletinnext.iit.edu/graduate/academic-policies-procedures/academic-progress/credit-by-examination/). Credit by examination is limited to nine credit hours with grades of “A” or “B” and is subject to the limitations for transfer credit in a
degree program. ITM Department policy on credit by examination is below.

- **Credit by Examination and Industry Certifications:** Industry certifications may be used as the examination for credit by examination, but this credit will not normally be granted after the end of the first semester of studies in a degree. Many industry certifications may fulfill course requirements; while we recognize their value and applaud students who hold them, we cannot at this time grant course credit for Cisco certifications. If you have industry certifications that you believe may fulfill course requirements, contact the ITM Associate Chair, Ray Trygstad (trygstad@iit.edu or 630.447.9009), for evaluation of your certification.

- **Administration of Examinations for Credit by Examination:** A student desiring to complete a course through credit by examination will complete the Credit by Examination form by logging into MyIIT to access the form at [https://pws.iit.edu/system/files/registrar/credit-proficiency_exam_form-1622743978.pdf](https://pws.iit.edu/system/files/registrar/credit-proficiency_exam_form-1622743978.pdf), make their payment, and bring the form to the instructor for the applicable course. The form states that you should “obtain the signature of the Director of Student Accounting” but if you have paid the fee online, please attach a copy of the receipt reflecting payment. The instructor may administer the midterm (if applicable) and final examinations from the most recent offering of the class, or may administer an oral examination, to verify that the student possesses an adequate level of knowledge to complete the course. Upon completion of the examination, the instructor will assign a grade on the form; if the student does not possess the necessary level of knowledge a failing grade will be assigned. After assigning the grade and signing the form
the instructor must return the form in person to Kayla Botica in the ITM Department office. Once a student hands the instructor the form, the student may not possess or handle the form again.

- **Credit for Proficiency for Continuing Education Unit (CEU) awarded coursework:** Credit by Proficiency may be granted for coursework in the IT or INT courses of the Information Technology and International Certificate Programs as outlined in Grading of CEU Students below, requiring a grade of “B” or better for graduate credit in graduate level courses, based on the final letter grade recorded by OPD for the CEU coursework. If a particular section of a course is offered at both undergraduate and graduate levels, students must complete the graduate level coursework to receive graduate credit. Meeting with your program manager of the Office of Professional Development (OPD) at the beginning of each semester will help ensure proper level selection in coursework. The Credit by Proficiency process also begins with the student meeting with the appropriate program manager of OPD.

Successful completion of courses in IT or INT may always be considered as credential for admission even if no academic credit may be awarded. Credit by Proficiency cannot be awarded for English as a Second Language courses.

**Placement Examinations**
Students entering the Master of Information Technology and Management degree program may be required or may elect to take placement examinations based on an evaluation of their background and undergraduate degree program.

- **Subject Placement Examinations:** Students entering the Master of Information Technology and Management degree program who desire to have a prerequisite or core course waived based on previous coursework or significant experience may be required to complete a placement examination in that subject area. The determination for the necessity of a placement exam will be made by the student’s Graduate Adviser. Application development course waivers require a placement examination ensuring students can use a contemporary object-oriented programming language; students will be requested to complete a representative set of basic programming tasks and will have a choice of programming languages in which to complete the tasks, but Visual Basic is not an acceptable language for this purpose. For all exams, references may be consulted, but each test is timed such that knowledge and experience in the subject area is necessary. Students who cannot satisfactorily complete the exam will be expected to complete the applicable prerequisite or program core course. When directed to take a placement examination, students will contact the ITM Program Manager, Kayla Botica, PH 223, kbotica1@iit.edu, 312.567.5927 to arrange for administration and grading of the examination.

**English Proficiency**
Good written and spoken English skills are essential for students completing our degrees. If you find you are seriously deficient in either area, please seek help, as we have a lot of resources available to assist you. If we were to allow you to complete our degree with unacceptable language skills, we would be doing you a disservice. We have great infrastructure to assist non-native speaking students with their English skills through our English Language Services office (https://appliedtech.iit.edu/english-language-services), but we have to know you are having difficulty to help you. Native English speakers with seriously deficient skills are much harder to assist and we need to identify your issues very early on if we are going to help you.

- Students who have low scores on the Test of English as a Foreign Language (TOEFL), those who are not required to complete the TOEFL but do not have English as their first language, or who have very weak scores on the GRE Verbal may be required to complete an English assessment examination. Based on the outcome of the assessment, students may be required to enroll in and successfully complete one or more Proficiency of English as a Second Language (PESL) courses.

- Assistance is available for written and oral assignments at the Illinois Tech Writing Center, located in Siegel Hall, Rooms 232–233. Tutors are available during the fall and spring semesters to assist all Illinois Tech students, free of charge. The Writing Center provides individual, 30-minute meetings for students. They can assist you with any stage in the writing process, from brainstorming and outlining to rough drafts and reference sheets, as well as issues such as grammar, punctuation, and spelling. Faculty members who see that you are having difficulty may refer you using their referral form at https://humansciences.iit.edu/sites/humanscience/files/elements/humanities/pdfs/iit_writing_center.pdf. For more information, please see https://humansciences.iit.edu/humanities/writing-center.

**Syllabus**
Instructors must provide a detailed syllabus for students delineating the objectives and outcomes of the course. The content and objectives must substantially match those found in the official course outline or departmental syllabus if one has been provided by the ITM Department. A detailed syllabus with clearly stated student outcomes is a necessity for the ongoing success and academic validity of our program. (Instructors should also detailed specific learning objectives for each lesson.)

- **Syllabus Content:** You can expect a course syllabus will cover expected course and student outcomes for the course; topics covered in the class; homework assignments; projects; exams; grading policies; and a clear policy on handling late assignments/projects and academic irregularities.

  - The syllabus is a contract between your instructor and you, and must be treated as such. If your instructor changes the topics in your course, or your assignments, or any other significant facet of the course, they should issue a revised syllabus reflecting these changes. **You are expected to know and understand what is in the syllabus.**

  - The syllabus must include a grading discussion which must address two things: a breakdown of how letter grades relate to percentage grades or points, and how much weight is carried by each category of graded material. It is required that both of these be in writing and be included in the syllabus. This protects both you and your instructor from ambiguity.

  - All grading in the ITM Department, to the maximum extent possible, must be evidence-based grading. This means wherever possible, you instructor should provide you with a rubric clearly spelling out what aspects of an assignment will be graded and what standards will be applied to each graded area to determine if the work is excellent, good, adequate, poor or unsatisfactory.
Grading

Suggested (not required) grading standards for graduate and graduate-level CEU students:

- **A** Outstanding work reflecting substantial effort .................................................. 90-100%
- **B** Adequate work fully meeting that expected of a graduate student .......................... 80-89.99%
- **C** Weak but marginally satisfactory work not meeting expectations ....................... 65-79.99%
- **D** Unsatisfactory work (Fail) .................................................................................. 0-64.99%

International students must attain a grade of **B** to pass ELP (English Language Program) courses but otherwise are graded as above.

- **Assignments:** Assignment in this context includes all work submitted by students to fulfill course requirements except for exams, and typically includes lab reports, research papers, projects, programs, homework and quizzes. Every course must include a minimum of one graded assignment with grades returned to students before the final day to withdraw from the course. Multiple assignments for a course must be reasonably spread over the course of a semester and each must have a due date and a final late acceptance date; these may be the same date. In-class reviews of assignments may not be held until after the final late acceptance date. No course may have all course assignments due at the end of the semester. In order to better facilitate the use of rubrics and other tools for assessment, all assignment submissions should be via Blackboard. Submissions may be a link to a code repository such as Github, or to a web location, but should still be submitted via Blackboard for record purposes.

- **Examinations:** Every course must have a final examination. Examinations may be in class or take-home; in-class examinations may be open- or closed-book. For courses where it is appropriate, the final examination may be a final project or research paper presentation. However, all instructors must give one closed-book, closed-note exam each term unless specifically waived by the department; this exam may be a mid-term rather than a final, and distance learning students must have this exam proctored by arrangement with the Illinois Tech Office of Digital Learning. Final examinations that are not “take-home” exams must be completed in a single, uninterrupted two hour increment, even if administered online. It is the policy of both the university (implicit) and the department (explicit) that in-class final examinations may not be administered before the scheduled time and date. If you are in an online section, you should schedule exam proctoring with the Office of Digital Learning, but do not expect the exam to be administered before the scheduled time and date.

- **Submission of Grades:** Your instructors will submit grades for all courses online; the exact day and time for grade submission will vary as per the Illinois Tech Academic Calendar. Your grade will normally appear on your unofficial transcript in MyIIT within a few minutes of posting, but should appear no later than 24 hours after posting. At that time, official transcripts including the P(ass)/F(ail) grades which award CEUs may be ordered.

- **Grading of Continuing Education Unit (CEU) students:** The actual grades submitted online for CEU students will be either a **P** for “passing” or an **F** for “failing,” or **NA** for “not attending.” Actual letter grades for all CEU students will be submitted to the Office of Professional Development (OPD) to keep on record to be used for credit by proficiency (see information on Credit by Proficiency above). CEU students must complete all class assignments and examinations to receive a letter grade. If a letter grade of **C** or better for undergraduates or **B** or better for graduate students is not received, the course may not be transferred into a degree program at Illinois Institute of Technology through Credit by Proficiency. CEU students who attend at least 80% of classes, participate actively in the classroom, and who submit a course evaluation, will be assigned a grade of **P** if all course requirements are completed and a minimum letter grade of **D** is earned.

- **Attendance:** Class attendance is expected of all students enrolled in live (i.e. not online) sections of a class. At the instructor’s discretion, students in live sections who do not attend class may be penalized in a class participation component of the course grade; this should be explained explicitly in the course syllabus. Faculty members are required to take attendance in all 100- and 200-level courses and may always elect to take attendance in any course. CEU students are required to attend course sessions unless specifically notified by the Office of Professional Development that online attendance is sufficient; at least 80% of classes must be attended live.

- **Extensions for Completion of Courses:** Students may be assigned a grade of **I** (incomplete) if the student requests it, all requirements for assignment of an **I** are met, in the instructor’s opinion there is a valid reason for an extension of time
to complete their coursework, and the Department grants approval. A grade of I will be assigned only in case of illness or for unusual or unforeseeable circumstances that prevent the student from completing the course requirements by the end of the term. You must apply to the instructor in writing for a grade of incomplete, using the request form at https://www.itm.iit.edu/incomplete/. You may not seek an incomplete before the last day to withdraw from the course and must request a grade of incomplete prior to final examination week. If the instructor approves it, your request will be forwarded to the Registrar’s Office for final approval. You must meet the university Academic and Department Regulations requirement that students have “substantial equity” in the course and the written agreement between the you and the instructor must detail the remaining requirements to complete the course. Grades of I will automatically lapse to E on the published deadline of the subsequent term. Please bear in mind that the only acceptable reasons for an I are either illness or unusual/unforeseeable circumstances. The fact that you may have fallen behind in course work when neither of these situations exists is NOT adequate cause to award an incomplete. In these cases you can expect to be awarded the grade you have earned in the class. In the case of CEU students, no letter grade will be submitted until the course is completed. Instructors must grant CEU students extensions for course completion when directed by the Office of Professional Development, and may grant extensions for other reasons as well with permission of the Office of Professional Development. If CEU students have completed the requirements for a P grade they should be assigned that grade even if the letter grade is otherwise an I.

- **Withdrawal from a Course:** If you determine that you will be unable to complete a course with a passing grade, it is advisable to withdraw from the course rather than have the failing grade appear on your transcript, and your instructor may advise you to do so. The deadline for withdrawal is normally six weeks prior to the end of the term; consult the academic calendar (https://web.iit.edu/registrar/academic-calendar) for the current term for the exact date. A grade of W will appear for the course on your transcript. This grade does not apply toward your GPA and no credit is awarded for the course. If you are a part time student, **payment is still required for the course**. If you are a full-time student and you drop below twelve credit hours for the term or withdraw, you will be on academic probation the following term due to failure to make adequate academic progress; generally this is still preferable to receiving a failing grade in a course. If you have been ill or have other mitigating circumstances that have prevented you from submitting your work in the final few weeks of the course, please discuss this with the instructor before you withdraw; if you present a good case, at the instructor’s discretion you may be granted an extension with assignment of a grade of I (incomplete) to complete the course (see above).

- **Not Attending:** If you stop attending class, at the mid-term you may be assigned a grade of NA (not attending). If you receive a grade of NA, you should discuss the situation with your instructor to determine if you can successfully complete the course with a passing grade. If you cannot, you should withdraw from the course (see above). If you continue to fail to attend, at the end of the term you will be assigned a failing grade of E.

- **Extra Credit:** If a faculty member desires to allow you to earn extra credit in a course, the extra credit must be applied to your grade after the final grade calculations for the term have been made. This is to prevent extra credit points from “skewing the curve” or otherwise penalizing students who elected not to do the extra credit assignment(s). Policies for awarding of extra credit should be explicitly stated in the course syllabus. If there is no policy for extra credit included in the course syllabus, you cannot expect an instructor to grant extra credit.

- **Retention of Graded Examinations:** Faculty members may elect to retain your examinations after they have been submitted and graded, or they may return them to you, but in all cases they must allow you an opportunity to review your graded examination upon request. If faculty members elect to retain graded examinations, they must then retain them for three years following the completion of the course. See the discussion on Student Intellectual Property below for a discussion of other retention of coursework.

- **Appeal of Final Grades:** Grades you have earned based on your work in a course are final. If the minimum score to earn a grade of A in a course is 90% and you have earned a score of 89.97%, your grade is a B. If you are unhappy with the grade you have earned at the end of the term, pleading with the instructor will be a waste of both your time and the instructor’s time. You cannot do additional work after a grade has been submitted to change your grade. University policy on grade appeals is in the Student Handbook, section IV. Academic and Department Regulations, paragraph R at https://web.iit.edu/student-affairs/handbook/fine-print/academic-and-department-regulations. If you want to appeal a letter grade assigned in a course, you should first confer directly with your course instructor. If you and the instructor cannot come to an agreement, you should contact the Associate Chair of the Department. If necessary, you can appeal to the Dean of the College of Computing. Appeal of a final course grade should be initiated within two weeks of the end of the term.

**Classroom Conduct**

You must conduct yourself in a professional manner showing courtesy to the instructor & your fellow students.

- Professional conduct includes participation in group activities and discussions. Making an active, positive contribution may help a class participation grade and will improve not only your experience, but also the experience of the entire group. Students refusing to participate in group projects should expect to receive a failing grade for the project.

- Unless required to accommodate a student disability, please turn off cell phone ringers and other distracting electronic devices and leave them off while class is in session. If the instructor requests that you not use notebook PCs, tablets, or smartphones while in class, you need to respect that request and comply. Failure to comply may be reflected in your class participation grade.

- You may use voice or video recording devices in lectures as long as their use does not disrupt class proceedings.

- If you are late to class, please enter the classroom and take a seat as quietly as possible.

- You should not engage in conversations while an instructor, lecturer, or fellow student is speaking.

- If a class exceeds seventy-five minutes, there will generally be a break in the middle of each meeting of the class; please return from the break promptly and be in your seat at the appointed time.

- Please use restraint and good judgment when bringing food and drink items into the classroom.
Course Evaluations

Your evaluations of our courses are considered to be a critical component in the continuous improvement of our program offerings. Course evaluation results are reviewed by senior academic administration as well as the departmental staff as just one component of the normal administrative review of instructor performance. The evaluation data and comments will also be available for review by each instructor (after grades have been submitted) to help improve the course. Evaluations are completely anonymous and confidential; evaluation results and comments are available to the instructor only without identifying information.

◆ Submission of ITM course evaluations: Course evaluations are made available under your Academics tab in the MyIIT portal. Evaluations are conducted the last two weeks prior to the exam week of each academic semester, and you won’t be able to access evaluations after Sunday night prior to exams. Constructive feedback from you is very important to us, both positive and negative, and your submission will be completely anonymous and confidential. Please complete your evaluations to help us improve our program; they really are important to us.

◆ Submission of CEU student course evaluations: CEU students will not be awarded Continuing Education Units (CEUs) without submitting a properly completed course evaluation. Evaluations will be completed during the last two weeks of the course prior to any final examination. The Office of Professional Development will provide you with specific instructions as to how to complete and submit your evaluations. If you have questions about course evaluations for CEU students, please contact the Office of Professional Development at 312.567.5282.

Course Assessments

In order to ensure that you, our students, are attaining the outcomes that we have established for our degrees and for each course that we offer towards your degree, we have established a formal assessment process. Assessments may be conducted by evaluating assignment of outcomes using a rubric; by surveys of the students in the course; and by surveys of the faculty member teaching the course. Between three and seven courses are assessed each term. Assessments create a baseline that we can measure against for evidence of improvement, and allow us to identify flaws, shortcomings, and issues with courses to support a process of continuous improvement. Assessments and the process of continuous improvement they facilitate are an important facet of ITM program accreditation by the Computing Accreditation Commission of ABET and university accreditation by the Higher Learning Commission.

◆ Course Assessment Surveys: These surveys are conducted by ITM Department staff during the final weeks of each course being assessed. The surveys ask you to evaluate how well you have achieved each of the course and program outcomes covered in the course. Please take the surveys seriously as they are very important to the ongoing process of improving what we do to ensure we are delivering the best possible education to you our students. Please ensure that you are present in class for the surveys.

Student Intellectual Property

The intellectual property discussion here is supplemental to policy in the university Student Handbook, Chapter III, Policies and Procedures, paragraph Q at https://web.iit.edu/student-affairs/handbook/fine-print/policies-regulations-and-procedures. As a general rule, intellectual property created and submitted in fulfillment of assignments in Information Technology and Management degrees remains the intellectual property of the student; if no license is granted, assignments are copyrighted under the Berne Copyright Convention and distribution is subject to international and national copyright law, and students may patent intellectual property resulting from assignments that falls into the category of inventions. For copyrighted material, this means that there may be no redistribution or re-use of the material submitted in fulfillment of assignments without the express consent of the copyright owner—the student. Because it is necessary to maintain files of student work for normal administrative and pedagogical purposes, such as accreditation requirements, the Department of Information Technology and Management hereby gives notice of its desire to secure a non-exclusive, perpetual, royalty-free license solely to use, at its discretion, student-created work produced in all courses offered by the department, with appropriate attribution, for its own non-commercial and educational purposes, including to promote the programs of the academic unit. Unless the student submits a written notice to the Dean of the College of Computing indicating that he or she does not agree to grant such a license by the last regularly scheduled day of any specific course, then the student shall be deemed to have granted the foregoing described license. The university owns both questions and answers on tests and examinations, unless otherwise indicated by the course instructor. There are too many possible variations on how intellectual property may be handled for full inclusion here—but in general the following policies will apply.

◆ Requests for Assignments of Rights: As many student projects are ongoing from term to term, faculty members may request an assignment of rights for re-use or redistribution of student work from students, but students are not expected or required to assign any rights, and the refusal to assign rights may not be prejudicial to the student in any way. To ensure any consent granted for re-use or redistribution of any student work is clearly unequivocal, such rights must be granted in writing by the copyright owner. Suggested formats for assignments of rights may be found at http://www.itm.iit.edu/resources/licensing.php.

◆ Software Licensing: While it is not required, students are strongly encouraged to license academic programming assignments under an applicable Open Source license. This is in line with the academic traditions of openness and sharing that have created Linux and the Internet. The preferred license for ITM student use is the MIT License. Alternative licenses could be the GNU General Public License (GPL) or any one of a variety of other Open Source licenses. Suggested formats for software licensing may be found at http://www.itm.iit.edu/resources/licensing.php.

◆ Other Intellectual Property Licensing: Again, while it is not required, students are strongly encouraged to license research papers and other academic coursework under licenses that allow some sharing of the material such as a Creative Commons license. With a Creative Commons license, you keep your copyright but allow people to copy and distribute your work provided they give you credit—and only under specific conditions that you specify. For detail on licensing under Creative Commons, see http://creativecommons.org/license/.
Degree Specializations

The Master of Information Technology and Management offers nine specializations intended to prepare you for particular roles in the IT working world. The curriculum is structured with the expectation that students will elect complete a specialization; but you can elect to tailor a course of study that meets your specific needs within the bounds allowed by the degree core course requirements. To complete a specialization, you must complete a sequence of courses within the specialization as outlined in the Graduate Bulletin at [http://bulletin.iit.edu/graduate[colleges/computing/department-information-technology-management/master-information-technology-management/specializations](http://bulletin.iit.edu/graduate[colleges/computing/department-information-technology-management/master-information-technology-management/specializations)]. Your adviser will ultimately determine if you have completed a specialization and will also authorize any substitution of courses. Completion of a specialization should be indicated by an annotation on your transcript and upon request will be recognized by a document issued by the Department of Information Technology and Management. If you are completing the Information Technology Infrastructure specialization, there are three tracks defined by the department: Data Center Operations and Management, Voice and Data Communication Technology, and System Administration. See the Bulletin Supplement on page 21 of this Handbook for details. Cybersecurity and Master of Science degrees do not offer defined specializations.

Advising and Registration

Each student enrolled in our program is assigned an academic adviser. The role of your adviser is to assist you in monitoring progress toward graduation by fulfilling degree requirements; helping you select courses that meet your individual goals and career objectives. Graduate ITM faculty or staff members. Selected faculty members serve as academic advisers and assist in initial (first semester) advising. You cannot enroll in courses in your first semester until you have met with an adviser and received your Alternate PIN; in subsequent terms your Alternate PIN will be listed under your Academics tab in the MyIIT portal, but you may have to meet with your adviser to clear your advising hold.

- **Prerequisite and Core Courses**: Your adviser will determine if any of the prerequisite or core courses may be waived, based on your placement exam and/or your previous studies, certifications, and industry experience. If any one or two cores courses is/are waived, Master of Information Technology and Management students must still complete nine hours of core course content. Appropriate core course substitutions will be made for students who have completed a Bachelor’s degree in the Information Technology and Management Department at Illinois Tech.

- **Specializations**: During your first semester of study you must submit your concentration (which is the same as what the Graduate Bulletin calls a “specialization”) for approval through the eForms feature of Graduate DegreeWorks, found in the Academics tab of the MyIIT portal. Your adviser will determine allowable course substitutions for the specialization; any course substitutions must be submitted through eForms as well. If you register for and complete a course that is not in your specialization, has not been approved as a course substitution prior to commencing the course, and is not a valid elective, that course will not be counted toward your degree. It is your responsibility, and not your adviser’s, to ensure that each course you take will apply to your degree.

- **Graduate Adviser Assignments**: The primary academic adviser for Master of Information Technology and Management and Master of Cyber Forensics and Security students is Ryan Nelson, 312.567.5192, IIT, nelson@iit.edu. The ITM Program Manager will assign a secondary academic adviser based on the student’s indicated interest in a specialization. These advisers will assist students with specific course selection when the knowledge and experience of a faculty member is necessary. Secondary Graduate Adviser assignments are generally as follows:

  - Computer & Information Security: Maurice Dawson – mdawson2@iit.edu or 312.567.5242
  - IT Management & Entrepreneurship: Adarsh Aurora – aurora12@iit.edu
  - Data Management and Analytics: Yong Zheng – yzheng66@iit.edu or 312.567.3575
  - Web Development & Electronic Commerce: Karl Stolley – kstolley@iit.edu or 312.567.3465
  - Software Development: James Papademas – jppadem@iit.edu
  - IT Infrastructure: Ray Trygstad – trygstad@iit.edu or 630.447.9009
  - Systems Analysis: Ray Trygstad – trygstad@iit.edu or 630.447.9009
  - Management Information Systems: Ray Trygstad – trygstad@iit.edu or 630.447.9009
  - Digital Systems Technology: Ray Trygstad – trygstad@iit.edu or 630.447.9009
  - Graduates of the ITM Bachelor’s Program: Jeremy Hajek – hajek@iit.edu or 630.296.4012
  - Co-Terminal Degree Students: Ryan Nelson or any full-time ITM faculty member

- **Exceptions for University Employment**: Ownership in intellectual property will not belong to students if they are being paid by either a grant or a stipend as a research assistant. If students receive monies from Illinois Tech to perform work, the university owns the intellectual property. Any royalties resulting from patenting and licensing of Illinois Tech-owned intellectual property will be distributed pursuant to the Patent and Copyright Policy in the *Faculty Handbook* Appendix X ([https://web.iit.edu/general-counsel/faculty-handbook](https://web.iit.edu/general-counsel/faculty-handbook)) and in accordance with the relative contribution as documented on the Invention Disclosure submitted to the Office of Technology Development. If the student was working on a grant in which they were paid, Illinois Tech owns any IP resulting from the grant. Other contract agreements may also govern the student intellectual property situation in situations such as corporate sponsored IPROs.

- **Patent Assistance**: Student inventors are encouraged to seek advice and help from the [Chicago-Kent Patent Hub](https://www.kentlaw.iit.edu/seeking-legal-help/illinois-patent-pro-bono). The Chicago-Kent Patent Hub is readily available to assist Illinois Tech student entrepreneurs and inventors with their IP questions and needs!
Advising Notes

**Program Approvals:** You must have your adviser’s specific approval in each semester in order to:
- Register for a course from another college or department within the university
- Register for an Interprofessional Project (IPRO) course
- Register for more than 15 hours
- Register for any course for which a prerequisite is waived
- Engage in Curricular Practical Training (CPT – internships for International Students)

- **Course Registration:** You register for your classes by selecting the **Registration Dashboard** on the Welcome tab of the my.iit.edu portal. You must have PIN and you may have an advising hold that needs to be lifted by your adviser before you register. You must register for your courses yourself; your adviser not able to register you for classes. Full details of how to register are at [https://web.iit.edu/registrar/registration/how-register](https://web.iit.edu/registrar/registration/how-register). A step-by-step registration tutorial—including how to waitlist—is available at [https://web.iit.edu/sites/web/files/departments/registrar/pdfs/student_registration_guide.pdf](https://web.iit.edu/sites/web/files/departments/registrar/pdfs/student_registration_guide.pdf).
- **Waitlisting:** If a course section is full, the registration interface will still allow you to add the course, and then select the Waitlist option from the drop-down menu. You should generally always do that. The ITM Department will make every attempt to clear the waitlist for each course before the term begins, and to inform students if it will not be possible. Please be aware that waitlists for courses that require a live lab generally can only be cleared if someone registered for the course drops the course, because enrollment in these courses is constrained by the seating capacity of the lab.

**Advising Notes**

- **Term Planning:** For planning purposes, the following courses are normally offered only in the term indicated, however this is subject to change without notice:
  - **Fall:** ITMD 562, ITMD 563, ITMD 535, ITMO 517, ITMO 544, ITMS 528, ITMS 543, ITMS 555, ITMS 583, ITMT 531, ITMT 535
  - **Spring:** ITMD 532, ITMD 564, ITMD 567, ITMO 541, ITMO 554, ITMM 570, ITMM 572, ITMM 576, ITMM 585, ITMS 538, ITMS 539, ITMS 549.
- **Overloading:** Graduate students may register for a maximum of 15 credit hours per semester. To register for more than 15 credit hours, you must request permission to overload by submitting a G701 form to the Office of Graduate Academic Affairs via your Adviser ([http://web.iit.edu/sites/web/files/departments/academic-affairs/Graduate%20Academic%20Affairs/G701%20-%20Student_Petition.pdf](http://web.iit.edu/sites/web/files/departments/academic-affairs/Graduate%20Academic%20Affairs/G701%20-%20Student_Petition.pdf)).
- **Registration Hold:** Advisers cannot remove registration holds, but they can tell you who placed the hold and how to contact to have it lifted.
- **Co-Terminal Degrees:** For information on co-terminal degree student advising, please see the **ITM Undergraduate Student Information** publication.
- **Advisee Responsibilities:** Your responsibilities as an advisee include:
  - **Know and Interface with your Adviser:** Familiarize yourself with your primary and secondary adviser. Meet with your adviser on a regular basis, once a semester if possible, to discuss courses and career plans.
  - **Take Control:** As much as possible, take control of your education by learning about, understanding and complying with your program's and specialization's requirements. Be familiar with program resources such as the Graduate Bulletin and Degreeworks. Once the course schedule is published, investigate and know what courses will be offered in the next term. And remember, it is ultimately your responsibility to ensure that each course you take will apply to your degree.
  - **Tell Us Who You Are:** Always include both your name and your [Campus-Wide Identification Number (A#)](http://web.iit.edu/sites/web/files/departments/academic-affairs/Graduate%20Academic%20Affairs/G701%20-%20Student_Petition.pdf) when communicating with your adviser or any faculty member by email. This should help you get a quicker response and will certainly make their job easier. Many email addresses are pretty obscure and we have no idea of who whangdoodle387@yahoo.com is. Also, please remember that you are required to use your hawk.iit.edu email to communicate with us officially. If you forward your IIT email to a personal email account, set up a “send as” in your account to send email from your iit.edu address. You are studying to be an IT professional; you should be able to figure out how to do this.
  - **Give Us Some Time:** When you contact your adviser, they will try to respond to you within 24 hours if possible, but they have 48 hours (2 days) to respond. You are very important to us as a student, but please remember that your adviser may have as many as 200 other students they are advising, and normally have major administrative responsibilities over and above their advising duties. Please be patient!
  - **Keep It Together:** If you have multiple issues to discuss with your adviser, do it all at once! Ten emails or visits on ten different questions or topics is going to make your adviser’s job much harder than it needs to be, and will probably annoy them after about the fourth or fifth contact. Please cover all of your current issues and/or questions in a single email or visit.
  - **Recognize That We Are Not Your Mother:** You are a college student, and this is not high school. You are responsible for making your own decisions about what you will study based on your own career aspirations and interests. Although we will recommend courses, it is NOT your adviser’s job to tell you what elective courses to take. Adviser means we will give you advice based on what you tell us about what you would like to accomplish in your studies and we are happy to do this, but some decisions must be yours. And by the way, don’t ask us sign any form that you have not filled out completely!
Proposals and Outcomes:

- **597, or a thesis through enrollment in ITMT 591.** Students must complete either a project through enrollment in ITMS 539, ITMS 549, ITMT 594, ITMT 596, and/or ITMT 597. Special Problems in Information Technology, or ITMT 591, Independent Study and Research, for between one and six hours of study as applicable. Full-time faculty may schedule students for ITM 597 or ITMT 591 as the faculty member's schedule allows. Faculty members receive no additional compensation for independent study or research, so adjunct faculty members are under no obligation to do so and their participation is entirely voluntary. Master of Science students must complete either a project through enrollment in ITMS 539, ITMS 549, ITMT 594, ITMT 596, and/or ITMT 597, or a thesis through enrollment in ITMT 591.

- **M.S. Thesis Requirements:** Full steps for completion of a thesis can be found at http://bulletin.iit.edu/graduate/graduate-education/synthesis-graduate-studies/. Thesis option students should also read the Thesis Examination FAQs at https://web.iit.edu/gaa/thesis-examination-faq and the Thesis Examiner information at https://web.iit.edu/gaa/thesis. Please read this content carefully and completely as we are not permitted to provide any more specific written information. ITM Department Policies for Master of Science Thesis or Research Project submission can be found in the ITM Research Paper Guidelines and Policies at http://itm.iit.edu/data/ITMResearchPaperGuidelinesAndPolicies.pdf

- **Proposals and Outcomes:** Students must have a permit to register for research or independent study issued by the faculty member. You must prepare and submit a written research prospectus, proposal, or abstract of material to be studied to the faculty member before they issue you a permit to register. The prospectus, proposal, or abstract must include clearly defined objectives and learning outcomes. The faculty member will work with the student as necessary to refine this document to their mutual satisfaction. Outcomes of ITMS 539, ITMS 549, ITMT 594, ITMT 596, or ITMT 597 should include a formal project or presentation of research results and a paper suitable for publication. Outcomes of ITMT 591 include a published thesis and a thesis defense.

Recognition of Academic Achievement

- **Annual Student Awards:** Since Spring 2017, annual awards are given to recognize achievement by graduating students and selected continuing students.

  **Gamma Nu Eta (TNE):** ITM graduate students who have completed fifteen semester hours of study with a GPA of 3.8 or greater and who are in the top 15% of their class may be elected to the Beta Chapter of the National Information Technology Honor Society, Gamma Nu Eta (TNE). Membership is based on three primary criteria: academic excellence, community service activities, and leadership in the field of Information Technology. The executive board of the chapter are responsible for electing candidates for induction each semester. Candidates will be notified of their election with an invitation to pledge at the beginning of each term. Inducted members receive a pin and a certificate.

  Students who continue their membership and active participation in the chapter are recognized with honor ropes and/or stoles in the Society's colors to be worn with the cap and gown at commencement. For more information on Gamma Nu Eta, see the Beta Chapter website at http://www.itm.iit.edu/gammanueta/ or contact Beta Chapter Advisor Ray Trygstad, trygstad@iit.edu.

  **Upsilon Pi Epsilon (UPE):** UPE is an honors society for the computing and information disciplines whose aim is to support high-performing students and academics in computing fields and encourage them to contribute to the advancement of computing science. Graduate students who have completed eighteen hours of study at Illinois Tech and have a cumulative GPA of 3.6 or greater are eligible for induction into Upsilon Pi Epsilon. In their Spring 2019 induction, 17 ITM students were inducted into the Illinois Tech chapter. UPE has received endorsements from the two largest computer organizations in the world, the Association for Computing Machinery and the IEEE Computer Society. See https://www.facebook.com/uepeit/; https://upe.cs.iit.edu/; or contact faculty rep Professor Ioan Raicu, iraicu@iit.edu for more information.

  **TruAccolades:** TruAccolades is a system created by an ITM faculty member that allows students to earn authentic badges and highlight their business & soft skills in ways that grades cannot. Students can collect feedback from their teachers, professors, and other supervisors on their coursework and the skills you’ve gained. This will help you identify their core strengths and choose career paths that complement them. You can embed your earned accolades to existing professional profiles and resumes and be on a road to success. You can request feedback from faculty members and learn more about your strengths by just simply filling out a form. See https://www.truaccolades.com/ for full details.
The ITM Department has been a major contributor of papers the Association of Computing Machinery (ACM) Research in Information Technology Conference, and had papers named “Best Paper” in three of the last five years. If you complete research that represents new and original thought, please consider preparing a paper for submission to this conference. It is now a track of the ACM Special Interest Group in I.T. Education (SIGITE) Conference each fall, usually in October. The SIGITE Call for Publication will be forwarded to all faculty members each year when it is released. Watch the ITM weekly Newsletter or the ITM Loopback Blog for more information.

Chicago Cyber Con (formerly ForenSecure): Students have an opportunity to present research at our Cyber Security & Forensics Conference, presented every spring by our Center for Cyber Security and Forensics Education (CSAFE). This is an industry-focused conference with multiple tracks. It attracts 200+ professionals for an intensive one- and a half-day schedule that includes discussion and debate over forensics, security, data/information governance, cyber crime and security, cyber security legislation and legal issues, ethical hacking, eDiscovery, cloud forensics, steganography, policy and compliance, privacy, wireless security, cloud computing, identity theft, and more. Watch the weekly ITM Newsletter for more information.

CRC Press Information Security Management Handbook: We have more student-authored papers than any other institution published as chapters in the CRC Press Information Security Management Handbook. If you believe you have completed work suitable for publication in any of the areas of the CISSP Body of Knowledge, you can submit your paper to Bonnie A. Goins, Adjunct Industry Professor, at bgoins@iit.edu or 630.387.9496.

White Papers: Papers of particular industry interest may also be published as a College of Computing White Paper. CoC White Papers featured on the Web site of the Chicago-based Technology Executives Club have consistently been the most downloaded papers on the site, so this represents a significant opportunity for professional exposure for our students. To nominate your paper for publication, please submit it to ITM Associate Chair Ray Trygstad, trygstad@iit.edu or 630.447.9009.

ITM Student Organizations

Gamma Nu Era (TNH): See “Recognition of Academic Achievement” above.

Information Technology and Management Organization (ITMO): The purpose of ITMO is to increase recognition for the ITM Major by making resources available for all ITM students. ITMO members organize, promote, and manage this organization to assist their peers in the ITM Department. ITMO also holds events, fundraisers, socials, and other functions; they also do community work and invite guest speakers. ITMO wants to serve as an umbrella for multiple partnerships, affiliations, and organizations that members will have options to join. Watch the weekly ITM Newsletter for meeting information. For more information email itmo@iit.edu.

The High Technology Crime Investigation Association (HTCIA) Illinois Tech Student Chapter: HTCIA was formed to provide education and collaboration to global members for the prevention and investigation of high tech crimes. The purpose of our student chapter is to foster, promote, and encourage the study of criminal investigations involving advanced technologies and security by the academic community. It is limited to undergraduate or graduate students in information technology and management, computer science, cybersecurity, law, accounting, auditing, or similar programs of study.

Association for Computing Machinery (ACM): ACM is the oldest and best established professional and academic association in the computing disciplines. Illinois Tech ACM values are competition, education, mentorship, collaboration, and recruitment. Many of your ITM faculty are ACM members and some are officers at the National level. For more information on Illinois Tech’s ACM chapter email acm@iit.edu.

ACM-W: ACM-W supports, celebrates, and advocates internationally for the full engagement of women in all aspects of the computing field, providing a wide range of programs and services to ACM members and working in the larger community to advance the contributions of technical women. ACM-W also welcomes male allies committed to helping ensure more diverse voices in computing are heard and respected. Illinois Tech has a very active ACM-W chapter; to find out more go to https://www.facebook.com/acmw.iit/ or email acmw@iit.edu.

Women in Cybersecurity (WiCyS): The mission of the WiCyS Student Chapter is to build a community within Illinois Institute of Technology that promotes women’s education, participation, and leadership in the field of cybersecurity. WiCyS also assists students who wish to attend the WiCyS Conference each spring (the ITM Department hosted the 2018 Conference). Membership is open to all Illinois Tech students. Watch the weekly ITM Newsletter for meeting information. For more information contact the President, Jamie Mandolini at jmandolini@hawk.iit.edu.

Funding: Scholarships, Internships, Coops, Job Placement, and Student Employment

Scholarships: Graduate students can apply for a limited number of merit scholarships as part of the admission process. These are quite competitive; students wishing to be considered should apply by February 15 for the next academic year. If there are scholarship funds left, they may be awarded to later applicants, including those starting in the spring term. However, students need to recognize that funds are limited and they are not likely to receive funding later than July. There are also externally funded scholarships that require application through the department.

Department of Defense Cybersecurity Scholarship: The Secretary of Defense for Networks and Information Integration annually announces a Department of Defense (DoD) Cybersecurity Scholarship Program grant and scholarship competition. Recipients are required to serve a period of obligated service in DoD as a civilian employee or a member of one of the armed forces. Recipients receive full tuition, books, and stipends of $22,500 for undergraduate students and $34,000 for graduate students. Applicants must be U.S. citizens or permanent residents and must be enrolled in a program with a cybersecurity focus. Applications for this grant will be actively solicited by the department as soon as the announcement is received from the DoD, and will normally be due in mid-May. While awarded annually, the scholarships are renewable but will require a new application each year.

Department of Defense SMART (Science, Mathematics, and Research for Transformation) Scholarship-for-Service: The SMART scholarship-for-service program provides academic funding in exchange for completing a period of full-time civilian employment with the Department of Defense (DoD). Recipients receive full tuition, books, and a stipend ranging from...
$25,000 to $38,000 per year depending on degree level. Awards may be made for up to five years of studies. Recipients are required to serve a period of obligated service in the Department of the Army as a civilian employee for one year for each year of scholarship support received. Applicants must be U.S. citizens or permanent residents and must be enrolled in a STEM (science, technology, engineering, math) program. Applications for this grant are online and are open each year from August 1 to December 1 at https://www.smartscholarship.org.

- **Foreign Affairs Information Technology Fellowship**: Awarded by the U.S. Department of State, this two-year Fellowship program is a path to a career in the Foreign Service by providing academic funding for an IT-related degree, internships, professional development and mentorship – culminating in an appointment in the Foreign Service as an Information Technology Management Specialist (IMS). Students funded by the program agree to serve a five year commitment with the Foreign Service upon graduation. Foreign Affairs IT Fellows will receive up to $37,500 annually (for two years) in academic funding for tuition, room and board, books, mandatory fees and some travel expense, for the junior and senior years of undergraduate study, OR a two-year master’s degree program in an IT-related field, as well as stipends, housing and travel allowances for two summer internships. Applicants must be U.S. citizens or permanent residents and must be enrolled in an information technology curriculum. The number of Fellows is very small, but Illinois Tech has had more students selected for this fellowship than any other university. Full details and the application can be found at https://www.faitfellowship.org/

- **CyberCorps® Scholarship for Service**: This U.S. government program provides scholarships that fully fund the typical costs incurred by full-time students in or entering cybersecurity curricula, including tuition and education and related fees, for up to three years. Additionally, recipients receive stipends of $22,500 for undergraduate students and $34,000 for graduate students. The scholarships are funded through grants awarded by the National Science Foundation, and require one year of Federal service for each year of scholarship received. Applicants must be U.S. citizens or permanent residents. Our application to award these scholarships is pending, and we will make an announcement if we are awarded this grant.

**Internships, Coops, and Job Placement**: Illinois Tech Career Services (http://web.iit.edu/career-services/) is the organization within the university that supports and facilitates student internships, cooperative education (coops) and job placement efforts. They also conduct university-wide Job Fairs once each semester as well as regular seminars covering topics such as résumé preparation. Please see their Web site for full details and descriptions of how to use their services. In addition, the ITM Department has frequent opportunities to assist students seeking internships, co-ops, or employment.

- **Direct Offers to ITM Students**: Occasionally the ITM Department will receive direct solicitations for internships, coops and employment. In most cases, these will be listed in the weekly ITM Newsletter. In the case of internships and coops, even if a direct solicitation is received, all arrangements for the internship or coop must be made via Career Services. Occasionally, employers ask faculty members to select students to apply for jobs, and those requests are forwarded to faculty members exclusively who will contact students they are recommending individually.

- **Employer Showcase sessions**: Prospective employers in all areas of information technology will present opportunities offered by their companies in lunchtime sessions throughout the year. They usually buy lunch—not often pizza—and after their presentation will have an opportunity for questions. Past events have included a diverse set of employers including Google, Red Sky Technologies, and University of Chicago Medicine. Watch the weekly ITM Newsletter for announcements of these Employer Showcase sessions.

- **Other Opportunities for Employment**: The opportunity to present at workshops, conferences and student colloquia sponsored by the College of Computing has proven to be fertile ground for employment for many ITM students. At any of these events, there may be (and usually are!) prospective employers evaluating students as they present results of their research and projects. Students have received direct job offers as a result of the quality of their participation in these events; in some cases offers have been made immediately following the conclusion of the student’s presentation. Direct job offers are also often sent via faculty and staff members of ITM and are either emailed to students directly, or are featured in the weekly ITM Newsletter.

- **LinkedIn**: linkedin.com is the leading professional networking social media site for the information technology profession. The ITM Department urges every student embarking on a search for internships or employment to complete and maintain a full profile on LinkedIn. Students in the department have been offered interview opportunities by firms whose web sites can be found on the strength of their profile and this is the first place IT professionals look for information on fellow professionals. Your profile should include a professional portrait photograph, and Career Services will do free student headshots at least once each semester so there’s no reason not to have one. (One of the companies who has invited students to interview based on their LinkedIn profiles is Google!)

**ITM Department Student Employment**: The following student employment positions in the Office of Technology Services (OTS), the College of Computing (CoC), and the ITM Department are available to ITM undergraduate students:

- **Teaching Assistantships**: This is a 20 hour/week position, reporting to one or more faculty members to grade student-submitted course materials and in some instances to support curriculum-specific laboratories. Teaching Assistants (TAs) must apply every term and may or may not be appointed each term. TAs normally receive a stipend, which is paid monthly, and tuition for three credit hours each semester of appointment. Full-time faculty members will nominate their preferred candidates for their Teaching Assistanceships so the most reliable path is to make a positive impression on a professor in class so that they will request you as a TA. Some faculty members require their TA to have completed all courses they are teaching that term with a minimum grade of ‘A’. Students should understand that if you have not been offered a teaching assistantship by the department, appointments as a TA without a specific faculty request are rare. Apply for Teaching Assistanceships at http://itm.iit.edu/ta/.

- **Research Assistantships**: This is a 20 hour/week position, reporting to one or more faculty members to support research. These positions will be offered to students by faculty members who have them available. They are often funded through grants or contracts and will be semester-by-semester. They are generally only available to students enrolled in a research degree.

- **Administrative Staff Members**: Students in these positions perform administrative tasks in the ITM Department office in Perlstein Hall at the Mies Campus and are paid hourly up to 20 hours/week. Contact the ITM Program Manager, Kayla Botica, at 312.567.6372 for information on applying for these positions.
Online Course Policies

Most non-laboratory courses in our programs are offered on the Internet via IIT Online. Online course lectures can be accessed via Blackboard. Online course content is available to all students registered for the course, including those students in the live classroom sections of the course.

- **Online Course Policies for International Students on F1 Visas:**
  - Only one online course may be taken per semester. This is a government requirement & cannot be waived.
  - In their first semester in the program, F1 Visa students cannot enroll in online sections of any course. This is intended to encourage the student in learning process so that they are not distracted from their studies.

- **Online Course Policies for Students Enrolled in Live Sections:**
  - For students in live sections, actual classroom attendance is expected and online content may not serve as a substitute for live classroom attendance. Students in live sections who do not attend class may be penalized in the class participation component of their course grade. This is at the instructor’s discretion and may vary.
  - If a course has an online component, live students who miss a class session due to illness or other authorized absence are expected to view the lecture they have missed online.

- **Online Course Policies for All Students:**
  - Graduate students living outside the Chicago area who are taking their degree program as a distance learner are not required to take live courses.
  - Students living outside the Chicago area who have shown that they are successful students and thus qualify to be on an internship or cooperative may take one or more courses online.
  - Online students are responsible for all assignments announced in class. Failure to watch the lecture is never an acceptable excuse for failure to submit assignments on the due date.
  - Some students fail to keep up with the on-line lectures and only skim over the material. As a result they miss critical information and fail to hand in assignments on time because they are not prepared when the assignment is due. Often they try to review all the lectures at the last moment to prepare themselves for an assignment, with bad results. Live students sometime use the Blackboard facilities as a substitute for attending class regularly, thus depriving themselves of the best option available to them, which is the live class. As a result, instructors may require that no more than the last three lectures be available at any point in the semester, which will force students to stay on schedule with lectures and course assignments. If this is the class policy, instructors may have all lectures made available online two weeks prior to the final exam for review purposes.

**Computers and Computer Labs**

Computer accounts and laboratories are essential to our academic programs. Computer labs for use by ITM/IT students are provided by the Rice Campus, the College of Computing and by Illinois Tech's Office of Technology Services (OTS). Portal and email accounts are provided for students and faculty by OTS located on our Mies Campus.

The ITM Department does not issue computers to students.
Software & Supplemental Educational Material Available for ITM/IT Students

- **Microsoft Software**: The College of Computing is a subscriber to Microsoft Azure Dev Tools for Teaching software under terms of the licensing agreement which permits academic use of this site by faculty and students. The files include most current Microsoft operating systems, servers, and application development tools, and include packages such as Windows 8.1, Windows 10, Windows Server, Access, Project, Visio, and Visual Studio. Our subscription does not include any Microsoft Office tools except Access (for Office, see below). You can download this Microsoft software from your Azure Dev Tools for Teaching account. Product keys for the software are provided at the time of download so we suggest that you save a copy of the page. To access our Microsoft webstore see [https://azurefordeducation.microsoft.com/devtools](https://azurefordeducation.microsoft.com/devtools). You will need to register a Microsoft account using your hawk.iit.edu email account to make use of this site. Microsoft Azure Dev Tools for Teaching membership benefits information is at [https://azure.microsoft.com/en-us/education/institutions/devtools-for-teaching-faq/](https://azure.microsoft.com/en-us/education/institutions/devtools-for-teaching-faq/). This subscription also includes training tools from Microsoft and $100 credit toward Azure for Students.

- **Microsoft Office**: You can subscribe to Office 365 for Education at [https://www.microsoft.com/en-us/education/products/office](https://www.microsoft.com/en-us/education/products/office). For College of Computing students the Office 365 A3 level is provided at no cost. This level includes 5 desktop installations of Office. Office 365 and Microsoft Office are not available through our Microsoft Azure Dev Tools for Teaching account. An alternative is to use free and open-source LibreOffice; we recommend you download it with an installer at [ninite.com](http://ninite.com). This publication was prepared using LibreOffice.

- **VMware**: Software available to students and faculty through the VMWare Academic Program can be downloaded through your ITM Software account managed by Kivuto Solutions. This account will give you access to VMware products—for free—as well as a token allowing you to enroll in VMware eLearning Courses online. You are entitled to one free copy of each product, with licenses good for 1 year. Unlike the Microsoft Imagine account, we CAN-NOT authorize additional downloads (i.e. more than one license) of these products, but according to the site you can redownload the software as necessary. More importantly, license keys are issued to you on the Web page at the time of download, and we cannot get you additional or replacement keys, so we suggest that you save a copy of any keys issued to you on the site.

- **IBM Academic Initiative**: As an IBM Academic Affiliate, IBM developer and analytics software is available to students and faculty. Go to [https://ibm.biz/academic](https://ibm.biz/academic) to register and access software and educational materials.

- **Oracle**: The ITM Department is an Oracle Academy which makes Oracle software available to faculty and students. Contact the Oracle Academy manager for access to software: Professor Louis McHugh, IIT Tower room 14C3-2 or lmchugh@iit.edu.

- **Autodesk**: Free software for students from Autodesk including AutoCad and Maya is available at [http://www.autodesk.com/education/free-software/featured](http://www.autodesk.com/education/free-software/featured)

- **Google G Suite for Education**

- **Other Free Widows Software**: We used to maintain a download page with links to recommended software, but instead we recommend that you use [https://ninite.com/](https://ninite.com/). Ninite will create an installer for all the free and open source soft-
ware you have selected from the Ninite website, which when run will install the correct version for your OS with no toolbars or other crapware. To update the software, just run the installer again. OTS uses Ninite Pro to configure College of Computing computer lab systems. Students may also want to consider use of Windows package managers such as Microsoft’s winget (https://docs.microsoft.com/en-us/windows/package-manager/winget/) or Chocolaty (https://chocolatey.org/) which allow command line software package installations in a manner similar to Linux.

**ITM Licensed Software**: Commercial software licensed for Illinois Tech use may be available under the Training and Support tab in MyIIT and may include applications such as Mathmatica and McAfee Virus Scan anti-virus products.

**Writing Research Papers**
The ability to write cogently, concisely and clearly in an acceptable academic format and to present the results of your research orally are skills you must develop to be a success in your studies in the Department of Information Technology and Management. At the same time, you will be learning skills essential to success in your working life after graduation, as the ability to communicate clearly in written and spoken English is one the most important elements to success in business. You will regularly be expected to submit research papers and project reports as you progress through our program. Specific ITM Department guidance for the preparation of research papers is available at http://itm.iit.edu/data/ITMResearchPaperGuidelinesAndPolicies.pdf. Please consult and follow these guidelines in the event that more specific guidance is not provided by your professor. This publication also provides additional information about the ITI Writing Center and optimal use of Illinois Tech’s Galvin Library.

**Accessing IIT Rice Campus**
Courses in our programs are offered at two physical locations:

The Illinois Tech Mies Campus along State Street between 31st and 35th Streets in Chicago, Illinois
The Daniel F. and Ada L. Rice Campus at 201 East Loop Road in Wheaton, Illinois

**Mies Campus to Rice Campus Public Transportation**: Mies Campus students can take a train from the Ogilvie Transportation Center (commonly known as Northwestern Station) on the Metra Union Pacific West Line to Wheaton or College Avenue, and from Wheaton or College Avenue back to Chicago. To get to the Ogilvie Transportation Center, take the CTA Green Line train to Clinton and walk two blocks south. Metra round-trip train fare to Wheaton/College Avenue is $13.50. The Pace Bus system, which provides bus transportation for suburban Chicago, operates Pace Bus Route #714 from the Metra Stations at Wheaton and College Avenue to the Rice Campus. Your Student Ventra Card is accepted on Pace Buses, and Pace Bus #714 to the Rice Campus runs Monday through Friday, 6:30am to 6pm. Pace Bus fare in cash is $2.25. A shared Lyft or Uber ride from the Rice Campus to either Wheaton Metra station after evening classes should be $8-10 per person. We strongly suggest you use the public transportation option in Google Maps to map out any travel by public transportation in the Chicago metropolitan area. Please note that bus and train schedules are subject to change without notice, and that Illinois Tech has no control and very little influence over Chicago Transit Authority, Metra or Pace transportation services.

**Important Illinois Tech Student Resources**

- **Student Handbook**: http://www.iit.edu/student_affairs/handbook/
- **Graduate Bulletin**: http://bulletin.iit.edu/graduate/
- **Undergraduate Bulletin**: http://bulletin.iit.edu/undergraduate/
- **Academic Calendar**: https://web.iit.edu/registrar/academic-calendar
- **Information Technology Resources**: https://ots.iit.edu/getting-started/current-students
- **Late Registration**: https://web.iit.edu/registrar/registration/late-registration-request
- **Bookstore Online**: http://iit.bncollege.com/
- **IPRO Course Listing**: https://ipro.iit.edu/courses/.

**Important Information Technology and Management Student Resources**

- **ITM Student Resource Page**: https://www.iit.edu/itm/student-resources
  (Includes links to ITM Undergraduate and Graduate Student Information)
- **ITM Loopback (ITM Department blog)**: http://blogs.iit.edu/itm_loopback/
- **Link to software provided under Microsoft Azure Dev Tools for Teaching and the VMware Academic Program**: http://www.iit.edu/software/
- **ITM Departmental Syllabi for undergraduate courses**: http://www.itm.iit.edu/faculty/itmdepartmentalsyllabus.html
- **ITM Graduate Job Roles**: Possible job titles for program graduates at http://www.itm.iit.edu/data/itjobroles.html
Information Technology & Management Notebook Computer Specifications

Students enrolled in Information Technology & Management (ITM) degrees after Spring 2016 are required to own a notebook computer. The standards below reflect specifications for notebook computers for use by ITM students; each category is broken down into recommended, minimum and, where applicable, optional specifications. Your system may run any operating system but must be able to run Microsoft Windows 8.1 Professional as the primary operating system or as a secondary (dual-boot) operating system or as a virtual machine using virtualization software. These are specifications you must meet if you are purchasing a notebook computer for use in our program. If you have questions about these specifications, please contact Ray Trygstad, trygstad@iit.edu or 630.447.9009.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>RECOMMENDED</th>
<th>MINIMUM</th>
<th>OPTIONAL/OPTIMAL</th>
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<tbody>
<tr>
<td>Processor (CPU)</td>
<td>Intel Core i7 / AMD Ryzen 5 / A8</td>
<td>7th Gen Intel Core i5 / AMD A4</td>
<td>Intel Core i9 or 8th Gen i7 / AMD Ryzen 7 / A10</td>
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<td>You may not be able to run virtualization software adequately without VT or AMD-V technology, not found in older CPUs.</td>
<td>New 2020 MacBook with the Apple-designed M-1 chip are not acceptable; MacBooks used in our program must have Intel processors.</td>
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<tr>
<td>RAM Memory</td>
<td>8GB or greater</td>
<td>8GB</td>
<td>16GB RAM optimal to run Windows 8.1/10 &amp; virtualization</td>
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<td></td>
<td>16GB or more of RAM is highly desirable.</td>
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</tr>
<tr>
<td>Operating System</td>
<td>Microsoft Windows 10 Education (64 bit)</td>
<td>Microsoft Windows 8.1 Professional (64 bit)</td>
<td>Linux or BSD Unix version Macintosh OS/X / MacOS</td>
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<td>MacBooks must have BootCamp, Oracle VirtualBox, Parallels Desktop or VMware Fusion installed allowing running of Microsoft operating systems. New 2020 MacBook with the Apple-designed M-1 chip are not acceptable; MacBooks for our program must have Intel processors.</td>
<td>New 2020 MacBook with the Apple-designed M-1 chip are not acceptable; MacBooks for our program must have Intel processors.</td>
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<td>Linux or Solaris notebooks must have Oracle VirtualBox, Xen, KVM, or VMware Workstation installed allowing running of Microsoft operating systems.</td>
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<td></td>
<td>Oracle VirtualBox, our recommended desktop virtualization solution, is available for free at <a href="http://www.virtualbox.org/">http://www.virtualbox.org/</a>. Depending on your course you may also be able to run Microsoft Hyper-V, which is why Windows Professional or Education is required.</td>
<td>Oracle VirtualBox, our recommended desktop virtualization solution, is available for free at <a href="http://www.virtualbox.org/">http://www.virtualbox.org/</a>. Depending on your course you may also be able to run Microsoft Hyper-V, which is why Windows Professional or Education is required.</td>
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<td></td>
<td>Microsoft and Linux software is available at no cost to all ITM students but you should purchase a system that will support Windows 8.1 Professional as a minimum standard. Windows 10 Education is available free to all ITM students and is the most complete version of Windows. Windows Home versions will not support all software or OS functions you will need in our curriculum.</td>
<td>Microsoft and Linux software is available at no cost to all ITM students but you should purchase a system that will support Windows 8.1 Professional as a minimum standard. Windows 10 Education is available free to all ITM students and is the most complete version of Windows. Windows Home versions will not support all software or OS functions you will need in our curriculum.</td>
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<td>Ubuntu and Ubuntu variants Kubuntu, Linux Mint, and Pinguy, as well as OpenSUSE are recommended Linux distributions.</td>
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<tr>
<td>Hard Drive</td>
<td>1TB</td>
<td>500GB</td>
<td>SSD – 512GB or 1TB 7200 RPM hard drive(s)</td>
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<tr>
<td>Optical drive (May be external)</td>
<td>24-48x CD-RW/DVD-R</td>
<td>24x CD-RW/DVD-R</td>
<td>Blu-Ray / Blu-Ray-R</td>
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<td>3 USB-3 / USB-2; eSATA</td>
<td>1 USB-2 / 2 USB-C; HDMI video connector or Display Port video connector or USB-C video connector</td>
<td>Blu-Ray / Blu-Ray-R / External drive for Surface or Air</td>
</tr>
<tr>
<td>Floppy drive</td>
<td>Neither required or expected</td>
<td>3.5 inch 1.44MB</td>
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<tr>
<td>Graphics card</td>
<td>1GB or greater, 24-bit color</td>
<td>256MB 24-bit color</td>
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<tr>
<td>Display resolution</td>
<td>1600x1200 UXGA or greater</td>
<td>1280x1024 XGA</td>
<td>1440x900 WXGA+</td>
</tr>
<tr>
<td>Wireless Network</td>
<td>IEEE 802.11ac (WPA2-Enterprise support required)</td>
<td>IEEE 802.11g/n</td>
<td>4G Wireless</td>
</tr>
<tr>
<td>Network Port</td>
<td>1000Base-T ethernet</td>
<td>100Base-T ethernet</td>
<td>(USB Adapter is OK)</td>
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<td>Virtually all notebook PCs sold today include a gigabit (1000Base-T) ethernet port as standard items.</td>
<td>Virtually all notebook PCs sold today include a gigabit (1000Base-T) ethernet port as standard items.</td>
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<tr>
<td>Peripheral Ports</td>
<td>2 USB-3 / 1 USB-2 or USB-C; HDMI video connector or Display Port video connector or USB-C video connector</td>
<td>1 USB-2; RGB video connector</td>
<td>IEEE 1394 (FireWire) 3 USB-3 / USB-3.1 eSATA</td>
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<tr>
<td>Office Software</td>
<td>LibreOffice</td>
<td>LibreOffice</td>
<td>Microsoft Office 2010 or newer</td>
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<td>A trial subscription to Microsoft Office 365 which includes Microsoft Office for Windows or OSX may be available to our students with an iit.edu email address at <a href="https://www.microsoft.com/en-us/education/products/office">https://www.microsoft.com/en-us/education/products/office</a>. It is not supported by ITM or Illinois Tech OTS.</td>
<td>A trial subscription to Microsoft Office 365 which includes Microsoft Office for Windows or OSX may be available to our students with an iit.edu email address at <a href="https://www.microsoft.com/en-us/education/products/office">https://www.microsoft.com/en-us/education/products/office</a>. It is not supported by ITM or Illinois Tech OTS.</td>
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<tr>
<td>Anti-Virus Software</td>
<td>including all current updates</td>
<td>Optional on Mac/Linux</td>
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<td>Illinois Tech provides a licensed version of McAfee VirusScan for use by for all students, faculty &amp; staff, Microsoft Security Essentials—which is free from Microsoft—is also recommended. You may not operate any version of Microsoft Windows on Illinois Tech networks without installed anti-virus software.</td>
<td>Illinois Tech provides a licensed version of McAfee VirusScan for use by for all students, faculty &amp; staff, Microsoft Security Essentials—which is free from Microsoft—is also recommended. You may not operate any version of Microsoft Windows on Illinois Tech networks without installed anti-virus software.</td>
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</tbody>
</table>

Convertible or “2-in-1” systems such as the Microsoft Surface, Dell Inspiron or Dell Latitude, Lenovo Thinkpad Yoga or Lenovo Yoga, Acer Aspire, or Toshiba Satellite Radius that comply with these specifications are acceptable. Students should have a flash/thumb drive for lab use; 64GB minimum is recommended. See the ITM Student Information publication or https://blogs.iit.edu/itm_loopback/software/ for software available at no cost to ITM students.

Links to special pricing on Dell and Apple computer hardware is available to Illinois Tech students at https://ots.iit.edu/pc-mac/student-pcs-macs.
Tracks within the Information Technology Infrastructure Specialization

Tracks within the Information Technology Infrastructure are defined by selection of 12 hours of elective courses in the specialization. The Department makes no guarantee that all courses required for completion of a track will be available during the time a student is completing courses for the degree.

Voice and Data Communication Technology Track 12

Track Required Courses: 6
- ITMD 545 Web Real-Time Communications 3
- ITMO 546 Telecommunications Over Data Networks 3

Select a minimum of 6 credit hours from the following: 6
- ITMO 541 Network Administration and Operations 3
- ITMO 542 Wireless Technologies and Applications 3
- ITMO 544 Cloud Computing Technologies 3
- ITMO 547 Telecommunications Over Data Networks: Projects and Advanced Methods 3

System Administration Track 12

Track Required Courses: 3
- ITMO 541 Network Administration and Operations 3

Select a minimum of 6 credit hours from the following: 6
- ITMO 533 Enterprise Server Administration 3
- ITMO 550 Enterprise End-User System Administration 3
- ITMO 553 Open Source System Administration 3

Select a minimum of 3 credit hours from the following: 3
- ITMO 517 Shell Scripting for System Administration 3
- ITMO 533 Enterprise Server Administration 3
- ITMO 544 Cloud Computing Technologies 3
- ITMO 550 Enterprise End-User System Administration 3
- ITMO 553 Open Source System Administration 3
- ITMO 554 Operating Systems Virtualization 3
- ITMO 557 Storage Technologies 3
- ITMS 558 Operating Systems Security 3

Data Center Operations and Management Track 12

Track Required Courses: 9
- ITMO 554 Operating Systems Virtualization 3
- ITMM 576 Data Center Management 3
- ITMT 535 Data Center Architecture 3

Select 3 credit hours from the following: 3
- ITMD 526 Data Warehousing 3
- ITMM 574 Information Technology Management Frameworks 3
- ITMO 544 Cloud Computing Technologies 3
- ITMO 557 Storage Technologies 3
- ITMS 588 Incident Response, Disaster Recovery, and Business Continuity 3

Students electing to complete a track must inform their adviser and list applicable courses from the track on their Graduate Plan of Study. Students completing a track are urged to select one or both of their degree electives from the electives listed for the track they have selected.

Completion of a track within the Information Technology Infrastructure specialization will be recognized by a letter from the Department of Information Technology and Management.
Information Technology & Management Graduate Student Information Fall 2021

The first location given is the primary office location. The number given is the office room number. Location addresses are:

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**Perlstein:** Illinois Tech Mies Campus, Perlstein Hall, 10 West 33rd Street, Chicago, Illinois 60616  Phone Prefix: 312.567

Phone numbers not starting with the prefixes above are mobile, personal or multi-location numbers. Adjunct faculty may provide additional information to their students & their phone numbers may be available upon request from the ITM Program Manager, Kayla Botica.

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Information Technology & Management (ITM) Faculty & Staff Directory (continued)

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</table>

Key to awards:
- ⭐ = Educational Excellence Award (School of Applied Technology Dean’s Award)
- 🌟 = Jeffrey Kimont Memorial Teaching Award (ITM Department Outstanding Adjunct Faculty)
- ❤️ = The Angela Jarka Service Award (ITM Department Service)
- 🏤 = Excellence in Teaching Award (School of Applied Technology or College of Computing University Award)

Office of Professional Development Staff Directory

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