

Graduate Certificate Programs in Information Technology and Management

Certificate programs offer working professionals an opportunity to increase their knowledge and skills in the specific areas of information technology. A certificate representing proven academic performance is presented after the required coursework is completed with a GPA of 3.0/4.0. All courses may be later applied toward the Master of Information Technology and Management degree for those who apply and are accepted to the degree program. Applicants should have a bachelor's degree from an accredited college or university; the degree need not be in an information technology or computer related field. In some cases prerequisites may be required for courses included in a certificate; these prerequisites will not be applied to the certificate.

Computer and Network Security Technologies Certificate

This program is designed for students seeking knowledge that will prepare them for careers in computer and network security technologies and to deal with the challenging computer and network security problems facing society.

Complete the following two courses:

ITM 543 Vulnerability Analysis and Control
ITM 548 System and Network Security

And any two of the following six courses:

ITM 518 Coding Security
ITM 528 Database Security
ITM 538 Computer & Network Forensics
ITM 539 Steganography
ITM 549 System and Network Security: Projects & Advanced Methods
ITM 558 Operating System Security

Information Security Management Certificate

This program is designed for students seeking knowledge that will prepare them for careers in the management of information security.

Complete the following two courses:

ITM 548 System and Network Security
ITM 578 Information System Security Management

And any two of the following four courses:

ITM 543 Vulnerability Analysis and Control
ITM 579 Topics in Information Security
ITM 586 Information Technology Auditing
ITM 588 Incident Response, Disaster Recovery & Business Continuity
ITM 579 Topics in Information Security may be applied to this certificate twice.

Digital Voice and Data Communication Technologies Certificate

This program is designed for students seeking knowledge that will prepare them for careers in digital voice and data communications with a strong focus on Voice over IP (VoIP).

Complete the following three courses:

ITM 540 Introduction to Data Networks and the Internet
ITM 545 Telecommunications Technology
ITM 546 Voice Communications Over Data Networks

And select any one of the following three courses:

ITM 541 Network Administration and Operations
ITM 547 Voice Communications Over Data Networks: Projects & Advanced Methods
ITM 575 Networking & Telecommunications Management

Students who have already completed coursework, training, or certification equivalent to ITM 540 may substitute a fourth course from the above list.

Information Technology Innovation, Leadership and Entrepreneurship Certificate

This program is designed for students seeking knowledge that will prepare them to be leaders, innovators and entrepreneurs in the field of information technology.

Complete the following three courses:

ITM 571 Project Management for Information Technology Management
ITM 581 IT Entrepreneurship
ITM 582 Business Innovation

And select any one of the following eleven courses :

ITM 572 Process Engineering for Information Technology Managers
ITM 573 Building & Leading Effective Teams
ITM 574 Information Technology Management Frameworks

ITM 575 Networking and Telecommunications Management
ITM 578 Information Systems Security Management
ITM 585 Legal and Ethical Issues in Information Technology
INTM 511 Industrial Leadership
INTM 515 Advanced Project Management
INTM 522 Computers in Industry
INTM 534 Resource Management
INTM 543 Purchasing

Students who have already completed coursework, training, or certification equivalent to ITM 571 may substitute a fourth course from the above list; only one INTM course may be applied to the certificate.

Data Management and Business Analytics Certificate

This program is designed for students seeking knowledge that will prepare them for careers in data management and business analytics.

Complete the following three courses:

ITM 421 Data Modeling and Applications
ITM 422 Advanced Database Management
ITM 527 Data Analytics

And any one of the following four course:

ITM 526 Data Warehousing
ITM 528 Database Security
ITM 529 Advanced Data Analytics
ITM 531 Object Oriented System Analysis, Modeling and Design

Students who have already completed coursework, training, or certification equivalent to ITM 421 may substitute a fourth course from the above list.

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Data Center Operations and Management Certificate

This program is designed for students seeking knowledge that will prepare them for a career in data center operations.

Complete the following four courses:

- ITM 535 Data Center Architecture
- ITM 540 Introduction to Data Networks and the Internet
- ITM 554 Operating System Virtualization
- ITM 576 Data Center Management

Students who have already completed coursework, training, or certification equivalent to ITM 540 may substitute a fourth course from the list below.

- ITM 544 Cloud Computing Technologies
- ITM 548 System and Network Security
- ITM 588 Incident Response, Disaster Recovery and Business Continuity

System Administration Certificate

This program is designed for students seeking knowledge that will prepare them for a career as a systems administrator.

Complete one of the following two six-credit-hour courses:

- ITM 551 Distributed Workstation System Administration
- ITM 552 Client-Server System Administration

And select any two of the following five courses:

- ITM 456 Introduction to Open Source Operating Systems
- ITM 544 Cloud Computing Technologies
- ITM 554 Operating System Virtualization
- ITM 558 Operating System Security
- ITM 571 Project Management for Information Technology Management

Web Design and Application Development Certificate

This program is designed for students seeking knowledge that will prepare them for careers in Web design and application development.

Complete the following two courses:

- ITM 461 Internet Technologies & Web Design
- ITM 562 Web Application Development

And select any two of the following seven courses:

- ITM 534 Human Computer Interaction

- ITM 564 Advanced Web Application Development
- ITM 565 Rich Internet Applications
- ITM 566 Service-Oriented Architectures
- ITM 569 Topics in Application Development
- ITM 571 Project Management for Information Technology Management

COM 525 Research and Usability Testing

Students who have already completed coursework, training, or certification equivalent to ITM 461 may substitute a fourth course from the above list.

Systems Analysis Certificate

This program is designed for students seeking knowledge that will prepare them for a career as a systems analyst.

Complete the following three courses:

- ITM 531 Object Oriented System Analysis, Modeling and Design
- ITM 571 Project Management for Information Technology
- ITM 572 Process Engineering for Information Technology Managers

And select any one of the following five courses:

- ITM 511 Application Development Methodologies
- ITM 532 UML Based Software Development
- ITM 534 Human Computer Interaction
- ITM 536 Software Testing and Maintenance
- INTM 522 Computers in Industry

Students who have already completed coursework, training, or certification equivalent to ITM 571 may substitute a fourth course from the above list

Advanced Software Development Certificate

This program is designed for students seeking knowledge that will enhance their skills as a software developer.

Complete the following two courses:

- ITM 515 Advanced Software Development
- ITM 571 Project Management for Information Technology Management

And select any two of the following seven courses:

- ITM 511 Application Development Methodologies

- ITM 513 Open Source Programming
- ITM 518 Coding Security
- ITM 519 Topics in Software Development
- ITM 532 UML Based Software Development
- ITM 534 Human Computer Interaction
- ITM 536 Software Testing and Maintenance

Students who have already completed coursework, training, or certification equivalent to ITM 571 may substitute a fourth course from the above list.

About Illinois Institute of Technology's School of Applied Technology

Illinois Institute of Technology's School of Applied Technology offers hands-on, project-based technology-oriented education and training for both full-time students and working professionals. Courses are taught by IIT professors and industry professionals with significant working, teaching and research experience in their fields. The School of Applied Technology offers degree, non-degree, certificate, credit, non-credit programs, corporate training, short courses and seminars ranging from a few hours to several days in length. Both Bachelors and Masters Degrees are offered in Information Technology & Management and Industrial Technology & Management, as well as Undergraduate Certificates in Industrial Technology & Management, Graduate Certificates in Information Technology & Management topics and adult education/CEU courses in all fields. Our Information Technology & Management curriculum is supported by extensive dedicated laboratory facilities.

Illinois Institute of Technology (IIT) is a private, Ph.D. granting university founded in Chicago in 1890, offering programs in engineering, science, technology, architecture, design, psychology, public administration, technical communication, business and law.