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.

Cyber 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:
ITMS 543 Vulnerability Analysis and Control
ITMS 548 Cyber Security Technologies

AND two of the following:
ITMS 518 Coding Security
ITMS 528 Database Security
ITMS 538 Computer & Network Forensics
ITMS 539 Steganography
ITMS 549 Cyber Security Technologies: Projects & Advanced Methods
ITMS 558 Operating System Security

Cyber 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:
ITMS 548 Cyber Security Technologies
ITMS 578 Cyber Security Management

AND two of the following:
ITMS 543 Vulnerability Analysis and Control
ITMS 579 Topics in Information Security
ITMS 586 Information Technology Auditing
ITMS 588 Incident Response, Disaster Recovery & Business Continuity
ITMS 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:
ITMO 540 Introduction to Data Networks and the Internet
ITMO 545 Telecommunications Technology
ITMO 546 Voice Communications Over Data Networks

AND one of the following:
ITMO 541 Network Administration and Operations
ITMO 547 Voice Communications Over Data Networks: Projects & Advanced Methods
ITMM 575 Networking & Telecommunications Management

Students who have already completed coursework, training, or certification equivalent to ITMO 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:
ITMM 571 Project Management for Information Technology Management
ITMM 581 IT Entrepreneurship
ITMM 582 Business Innovation

AND one of the following:
ITMM 572 Process Engineering for Information Technology Managers
ITMM 573 Building & Leading Effective Teams
ITMM 574 Information Technology Management Frameworks

ITMM 575 Networking and Telecommunications Management
ITMS 578 Cyber Security Management
ITMM 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 ITMM 571 may substitute a fourth course from the above list; only one INTM course may be applied to the certificate.

Data Management and Analytics Certificate

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

Complete the following three courses:
ITMD 421 Data Modeling and Applications
ITMD 422 Advanced Database Management
ITMD 527 Data Analytics

And one of the following:
ITMD 526   Data Warehousing
ITMS 528   Database Security
ITMD 529   Advanced Data Analytics
ITMT 531   Object Oriented System Analysis, Modeling and Design

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

Graduate Certificate Programs in Information Technology and Management

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:

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

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

ITMO 544 Cloud Computing Technologies
ITMS 548 Cyber Security Management
ITMS 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 six-credit-hour courses:

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

And two of the following:

ITMO 456 Introduction to Open Source Operating Systems
ITMO 544 Cloud Computing Technologies
ITMO 554 Operating System Virtualization
ITMS 558 Operating System Security
ITMM 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:

ITMD 461 Internet Technologies & Web Design
ITMD 562 Web Application Development

And two of the following:

ITMD 534 Human Computer Interaction

ITMD 564 Advanced Web Application Development
ITMD 565 Rich Internet Applications
ITMD 566 Service-Oriented Architectures
ITMD 569 Topics in Application Development
ITMM 571 Project Management for Information Technology Management
COM 525   Research and Usability Testing

Students who have already completed coursework, training, or certification equivalent to ITMD 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:

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

And one of the following:

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

Students who have already completed coursework, training, or certification equivalent to ITMM 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:

ITMD 515 Advanced Software Development
ITMM 571 Project Management for Information Technology Management

And two of the following:

ITMD 511 Application Development Methodologies

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

Students who have already completed coursework, training, or certification equivalent to ITMM 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 Graduate Certificates in Information Technology & Management topics and adult education/CEU courses in all fields. Graduate degrees are offered in Food Safety & Technology and Food Process Engineering. Our Information Technology & Management and Food Safety & Technology curricula are supported by extensive dedicated laboratory and research 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.