

INFORMATION TECHNOLOGY MS

http://www.rit.edu/programs/program_detail.php?id=427

PROGRAM OVERVIEW FOR EMPLOYERS

Information technology is a continually evolving mixture of computer platforms, operating systems, information media, data repositories, communication technologies, and delivery methodologies. For technology to be successfully deployed and adopted, we need computing professionals who can not only evaluate and select appropriate technologies, but can design integrated solutions with an understanding of how - we as human beings - can best utilize them. This interdisciplinary mix is the basis of the Master of Science in Information Technology degree at RIT.

Degree(s) Awarded

Master of Science

Enrollment

Approximately 100 students enrolled

Cooperative Education Component

Graduate students have the option of completing up to a maximum of six months of work experience in either two (2) three-month assignments or one (1) six-month assignment.

Salary Information (Avg/Range)

Co-op:	\$17.85	\$10.00 - \$33.00
MS:	\$65,000	\$50,000 - \$94,000

Equipment & Facilities

The curriculum is supported by a mixture of hardware platforms (PC and Mac) and operating systems (Windows, Linux, Mac OS). In addition to classrooms that support general-purpose education, specialty classrooms and labs are available including:

- Active Learning classrooms – provide an interactive hands-on computing environment for educational use during class sessions.
- Database labs – client-server benches with Windows and Linux machines in a multi-DBMS environment that includes the Oracle RDBMS.
- Multimedia, Streaming Media and Sound labs in the college – support Web design, interactive multimedia, audio, video and interface design curriculum.
- Usability Testing Labs - support human-computer interaction and software usability curriculum.

- Networking, System Administration, Security and specialized networking labs in the college – support courses in networking at the physical, data-link, and transport layers; network management, application-layer (server-access) and security courses.
- RIT provides broadband network access both on campus and to the Internet. Details of the connectivity of the campus are available at <http://www.rit.edu/its/services/tele/>.

Student Skills & Capabilities

Information Technology students learn a systematic approach to the design of secure integrated technology solutions for business, industry, and education. Students can select from areas of study that include application development and management, website design and interactive multimedia, networking, computer-based learning and performance, and interface design and human-computer interaction theory. Students will be able to create information solutions utilizing current hardware and software technology. Depending upon the areas of study selected, students will be able to:

- Develop and manage integrated application and/or web-based software solutions.
- Design and develop interactive, multimedia applications, including a specialization in two and three-dimension solutions animated interactive applications.
- Apply cognitive and organizational theories to the design of information technology applications and systems.
- Develop strategic network and communication systems solutions.

Information Technology MS

Course Sequence MS degree

Core: Current Themes in Information Technology

Concentrations: The student develops an individual plan of study that combines coursework from two of the following concentration areas:

- Web & Interactive Design & Development
 - Web Development
 - XML Data Management
 - Multimedia Application Development
 - Media & Interaction
- Bioinformatics
- Learning & Performance Technology¹
- Networking¹
- Human-Computer Interaction¹
- System Administration¹
- Geographic Information Science & Technology
- System Survivability (security)¹
- Application Development¹
- Special Topics
Can be used to design a 3-course concentration from other graduate courses within the Information Sciences & Technologies department, other departments at RIT, or other universities.
- Software Project Management¹
- Database Theory & Practice

¹ Indicates concentration areas that are either entirely or partially available in online learning format.

One (1) elective and a capstone experience (MS project or thesis) completes this program of study.

Employers of Information Technology MS Co-op and Graduating Students:

Blue Cross/Blue Shield of Western NY, Carestream Health, Cisco Systems, Eastman Kodak Company, ITT-Advanced Engineering & Sciences, JPMorganChase, Leo Burnett USA Inc/Arc Worldwide, Paychex, Railcomm, SAP America Inc, Synacor, Inc., Thomson Reuters, Vicor Corp.

Contact Us:

We appreciate your interest in hiring RIT co-op, graduating students or alumni. We will make every effort to make your recruiting endeavor a success. Call our office and ask to speak with James Bondi, the program coordinator who works with the Information Technology MS program. For your convenience, you can access information and services through our website at <http://www.rit.edu/recruit>.

James T. Bondi

Assistant Director

Office of Cooperative Education and Career Services

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