INFORMATION TECHNOLOGY MANAGEMENT DEGREE TRACKS

Students seeking a professional focus in the Master of Science in Information Technology Management program may choose to follow a specific set of courses referred to as a “track,” that focuses on a particular area of interest. These tracks are informal and intended to help students customize their education by selecting specific core and elective courses which closely align with their professional goals.

There are 4 IT Management Degree Tracks:

1. Managing Health Information
2. Securing IT Assets
3. Enterprise Technology Management
4. Software Design and Development
5. Virtual Management

Students should work closely with their designated student advisor to outline course sequence and scheduling.

Ten courses are required to receive a Master of Science in Information Technology Management degree. The required core courses are:

- RCOM 102 Professional Communications
- RGMT 102 Strategic Information Technology: Operational Strategy
- RGMT 103 Strategic Information Technology: Organizational Strategy
- RGMT 110 Organizational Leadership and Decision Making
- RVTM 110 Management of Virtual and Global Teams*
- RGMT 101 Perspectives On Information Technology Or RPJM 101 Foundations Of Project Management

*With permission, RVTM-120 Organizational Systems and Communications may be taken instead of RVTM-110

The four tracks that follow involve selections of electives in different focus areas.

1. MANAGING HEALTH INFORMATION

This track is designed to educate health care and management professionals with knowledge and expertise that is essential to the delivery of high-quality, cost-effective health services, and critical in the design, analysis and evaluation of health care information systems. This track offers those transitioning into the field an opportunity to build solid foundational knowledge.

Some of the potential positions available with this track include health information management department director, health information systems manager, chief privacy officer, healthcare data
analyst, health information application developer, information technologist. Potential workplaces include: HMO administrative office, health care clinic, hospital, insurance provider, hospitals, software and IT vendor firms, consulting firms and government agencies.

The following courses are recommended for this area (select four):

- RHIN 110 Perspectives on Health/Medical Information Systems
- RHIN 115 Health Data and Electronic Health Records (EHRs)
- RHIN 120 Health/Medical Information Systems Security
- RHIN 125 Data Analysis and Decision Support for Health Informatics
- RHIN 160 Legal Issues in Health and Medical Informatics
- RHIN 170 Clinical Business Issues in Health Informatics

2. SECURING IT ASSETS

The goal of the Securing IT Assets track is to provide a knowledge base for managers and technology professionals concerned with the protection of an organization's information assets. The track provides students with a practical understanding of the principles of data protection, network security, and computer forensics. The track also introduces students to the ethical, legal, and policy issues associated with information security. Courses from the Information Assurance program have been certified by the Committee on National System Security (CNSS)

Common jobs titles for those within this program include: data security analyst, director of information technology, information security manager, IT auditor, security engineer or network security administrator.

The following courses are recommended for this area (select four):

- RIAS 101 Foundations of Information Security
- RIAS 102 Foundations of Information Security Management
- RIAS 115 Information Technology Forensics and Investigations
- RIAS 125 Principles of Incident Response and Disaster Recovery
- RIAS 150 Principles of Risk Management
- RMGT 175 IT Security and Compliance

3. ENTERPRISE TECHNOLOGY MANAGEMENT

With the expanded use of information technology in all facets of global organizations, skilled professionals who possess both information technology and management expertise are in high demand. The Enterprise Technology Management track prepares students to meet the information needs of users by utilizing leadership skills and demonstrating an understanding of management of information services and organizations. The skills offered in these courses will enable our students to plan strategy, marshal and deploy technology resources, optimally allocate those resources.

Common jobs titles for those within this program include chief information officer, chief technology officer, information technology auditor, information technology manager/director, sourcing manager or technology manager. Potential workplaces include banking/finance, global technology firm, information technology company, insurance firm or software company.
The following courses are recommended for this area (select four):

- **RMGT 115** Decision and Knowledge Management
- **RMGT 120** Legal and Ethical Practices in IT
- **RSAN 110** Business Intelligence, Analytics and Decision Making
- **RMGT 175** IT Security and Compliance
- **RMGT 180** Principles of Business Continuity Planning
- **RVTM 120** Organizational Systems and Communications

4. **SOFTWARE DEVELOPMENT/ENGINEERING MANAGEMENT**

The focus of this track is to provide students with the background needed for managing a team of highly skilled software development professionals and to be responsible for the achievement of specific engineering goals and objectives. Those in these positions need technical expertise and leadership skills, including the ability to effectively motivate, develop and manage a team of technical professionals as well as the ability to influence others within the organization.

Common jobs titles for those within this program include: software development leader, software team leader, software development manager, information technology manager/director.

The following courses are recommended for those who already have some software development and programming background (select four):

- **RSEG 120** Software Development Methodologies
- **RSEG 125** Foundations of Software Quality Assurance
- **RSEG 126** Release Engineering and Configuration Management
- **RSEG 131** Software Testing Techniques
- **RSEG 167** Service Oriented Architecture
- **RSEG 170** Database Management

For those with minimal programming experience, the following courses are suggested:

- **RSEG 120** Software Development Methodologies
- **RSEG 102** Advanced Programming in Java OR **RSEG 103** Advanced Programming in C++ OR **RSEG 180** Advanced Programming in C#
- **RSEG 109** Object Oriented Design OR **RSEG 126** Release Engineering and Configuration Management
- **RSEG 167** Service Oriented Architecture

5. **VIRTUAL MANAGEMENT**

This track is targeted for information technology team members, team leaders and managers working in virtual and globally distributed teams. The courses in this track provide students with a knowledge base and skills to understand and manage the development and direction of IT teams at distance, the dynamic of communication within an organization, the impacts of distance and diversity on business practices and activity, and culturally diverse business habits and practices in a worldwide environment.
Common job titles in this area are: IT team leader, IT development manager, IT business analyst, IT developer, information technology architect, and other management, leadership and technology positions in IT that work with geographically distributed team members.

The following courses are recommended for this area (select four):

- **RVTM 101** Foundations of Virtual Management across Cultures and Geographies
- **RVTM 110** Management of Virtual and Global Teams
- **RVTM 115** Social Media and Collaboration Technology in Organizations
- **RVTM 120** Organizational Behavior
- **RVTM 125** Virtual Teams in Worldwide Environments
- **RVTM 140** Enterprise Content Management