

# School of Computer Science Information Systems

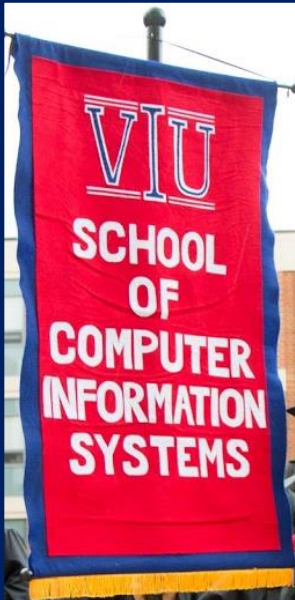
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DREAM . DISCOVER . ACCOMPLISH .

# MISSION

Our mission is to prepare graduates to serve as leading practitioners in the field of computing in a global context and to enable them to realize their dreams through academic excellence. The school provides a world-class education in the computing discipline from diverse faculty who are experts in the fields of computer science, information systems, and information technology.

For more information visit [www.viu.edu/scis](http://www.viu.edu/scis)



# PROGRAMS OFFERED

- MS in Information Systems (MIS)
  - MS in Computer Science (MCS)
  - MS in Information Systems Management (MISM)
  - MS in Information Technology (MIT)
  - MS in Software Engineering (MSE)
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- Bachelor of Science in Computer Science (BCS)
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- Graduate Certificate in Business Intelligence
  - Graduate Certificate in Information Systems
  - Graduate Certificate in Information Systems Management Graduate Certificate in Information Technology Audit and Compliance

# MASTER OF SCIENCE IN COMPUTER SCIENCE (MCS)

Aims to equip students with the knowledge and skills to:

- Analyze and solve problems with critical thinking skills
- Develop oral communication skills
- Develop a macro-vision understanding that the world is a set of related systems and that problem solving contexts do not exist in isolation
- Contribute to cross-functional teams, including geographically dispersed teams



## Seven specializations:

- Networking
- Data Management
- Software Engineering
- Cybersecurity
- Intelligent Systems
- Computer Animation & Gaming
- Software Applications Development

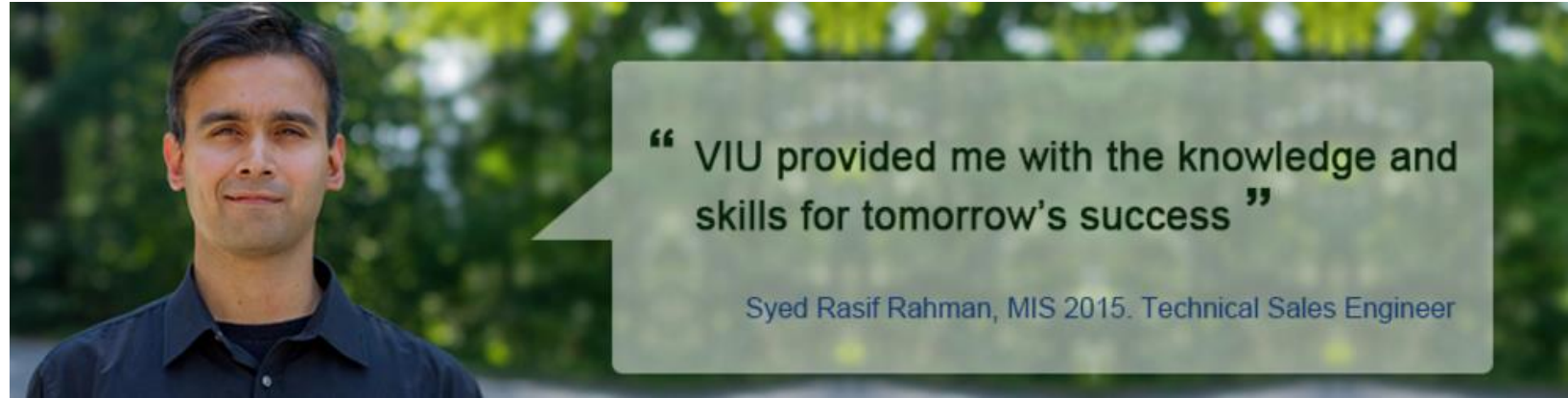
## Potential career paths include

- System programmer
- Application developer
- Data analyst
- Software systems architect
- Computer engineer
- Web developer
- Network engineer
- Security engineer
- Chief technology officer
- Network administrator
- Network manager
- Network architect
- IT manager
- Data administrator
- Network and security engineer
- Integration engineer
- Network and systems administrator
- Software engineer
- Solutions architect
- Programmer
- Technical systems analyst
- Software quality assurance engineer
- Applications coordinator
- Software architect
- Software and applications developer

# MASTER OF SCIENCE IN INFORMATION SYSTEMS (MIS)

Equips students with the knowledge that enables them to

- Data Administration
- Managing Sourcing and Global project
- Cybersecurity Specialists
- Research and Development of Information Technologies and related products and services
- Systems integration
- IT project management
- IT consultant
- Networking, telecom and infrastructure
- Analyst in information systems development projects
- Instructor at a college or university teaching information systems-related courses



## Specializations

- Knowledge Management
- Data Management
- Business Intelligence & Data Analytics
- Cybersecurity
- Enterprise Project Management
- Information Assurance
- Health Informatics

# MASTER OF SCIENCE IN INFORMATION TECHNOLOGY (MIT)

Provides knowledge and skills across range of topics including: systems engineering, decision-making for IT, ethics and law, computer networking, database technologies, IT governance and strategy, Web development, and information assurance.



## Potential career paths include

- Network Administrator
- Network Architect
- IT Manager
- Chief Technology Officer
- Network and Security Engineer
- Web Developer, Integration Engineer
- Network and Systems Administration

# MASTER OF SCIENCE IN SOFTWARE ENGINEERING (MSE)

Teaches students to apply computer science, engineering and mathematical principles to design, develop and test software.

The program is centered on learning how to make professional judgments by developing essential critical thinking skills.

## Potential career paths include

- Software Engineer
- Solutions Architect
- Programmer
- Technical Systems Analyst
- Software Quality Assurance Engineer
- Applications Coordinator
- Software Architect
- Software and Applications Developer





# BACHELOR OF SCIENCE IN COMPUTER SCIENCE (BCS)

The curriculum for the Bachelor of Science in Computer Science degree is designed to give students a state-of-the-art education in both the theory and practice of computer science.

- Upper-level courses involve students in team projects that emphasize industrial applications and best practices.
- The program provides a blend of theory and applications, preparing students for a variety of computer science careers in industry, government, and academia while developing the foundation for continuing education and growth in the field of computer science.

## GRADUATE CERTIFICATE PROGRAMS

### **Graduate Certificate in Business Intelligence (GCBI)**

- Designed to meet the overwhelming need of the industry to turn raw data into practical business knowledge that can be used to drive efficiency, maximize the technology, investment and strengthen customer relationships

### **Graduate Certificate in Information Systems (GCIS)**

- Focused on gaining a better understanding of the use of information systems to enhance business processes and decision-making process

### **Graduate Certificate in Information Systems Management (GCISM)**

- Curriculum focuses on the concepts, methods and practical applications of information systems in the global workplace.

### **Graduate Certificate in Information Technology Audit and Compliance (GCITAC)**

- Courses enables students to learn security concepts and how IT related risks can be minimized through security control measures