

DEPARTMENT OF INFORMATION SCIENCES AND TECHNOLOGY

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Information Sciences and Technology offers undergraduate and graduate programs to develop expertise in applying information technology to support business applications. The programs emphasize problem-solving, communication, technical, and leadership skills.

Undergraduate

The BS in Information Technology (<https://catalog.gmu.edu/colleges-schools/engineering-computing/school-computing/information-sciences-technology/information-technology-bs/>) program aims to meet the existing and emerging needs of industry by educating students in current principles and practices in the application of information technology (IT). The program focuses on equipping graduates with effective skills for interacting at the management level as well as the technical level. Graduates are hired in positions that focus on the application of IT in an increasing number of emerging sub-disciplines, including network administration and telecommunications, information security, web development and multimedia, database technology and programming, and health information technology.

Graduate

MS in Applied Information Technology

The MS in Applied Information Technology (<https://catalog.gmu.edu/colleges-schools/engineering-computing/school-computing/information-sciences-technology/applied-information-technology-ms/>) is the very best graduate education in IT for high-potential leaders, especially those working on IT solutions that affect the federal government, industry or non-profit. Its objective is to graduate individuals of competence and character who can lead multidisciplinary teams in the design, justification, development, management, and sustainment of mega-systems from data to decision in the private and federal sectors. The MS in AIT provides a high quality curricula for students seeking to pursue their careers in the leading IT areas including Cyber Security, Big Data Analytics, Knowledge Mining, Data Analytics in Social Media, and Cyber-Human Interaction.

MS in Information Systems

Information Sciences and Technology also offers the MS in Information Systems (<https://catalog.gmu.edu/colleges-schools/engineering-computing/school-computing/information-sciences-technology/information-systems-ms/>). The mission of the MS-INFs program is to enable students of diverse baccalaureate and professional backgrounds to obtain a high-quality MS degree that:

- Provides the theoretical knowledge and hands-on project experience needed to analyze, design, build, deploy, maintain, manage and promote effective organizational use of modern information systems.
- Allows students to specialize in high demand concentration areas including human-centered computing, and cloud-based information systems.
- Prepares students for careers in information systems in large and small organizations in both industry and government.
 - Career paths open to graduates include database application developer, web- and cloud-based information systems designer

and developer, systems analyst, database administrator, information architect, systems architect, decision support analyst, data warehouse administrator, information engineer, knowledge engineer, human-computer interaction engineer, machine learning engineer, chief information officer, chief knowledge officer, chief privacy officer, and project manager.

PhD in Information Technology

At the doctoral level, the department offers a concentration in the College of Engineering and Computing's PhD in INFT (<https://catalog.gmu.edu/colleges-schools/engineering-computing/information-technology-phd/>) program.

Faculty

Department Faculty

Professors

Adamus, Albanese (Associate Chair for Research), Foxwell, Hashem, Islam (Associate Chair for Undergraduate Studies), Johri, Rytikova (Associate Chair for Graduate Studies), Sanghera, Sun, Wang, Uzuner (Chair)

Associate Professors

Ahmadi, Boicu, Foxwell, Hashmi, Hashemi, Hassan, Liao, Motti, Pan, Purohit, Rezazad, Shuman, Yan (Associate Chair for Graduate Studies)

Assistant Professors

Agada, Alvarez, Ciftci, Das, Garrison, Guo, Hong, Kabir, Kamal, Lee, Lybarger, Marasco, McDonald, Sultana, Torabi, Yang, Zampieri

Instructors

Akhtari, Azamy, Lewis, Lyons, McLaughlin, Therrien

Adjunct Professors

Agbariah, Bahceci, Barevadia, Behr, Bondra, Brown, Butu, Caldwell, Camacho Gonzalez, Carneiro, Chandramouli, Choudhury, Costa, Darquea, Duan, Fennell, Ferreras-Perez, Freas, Gang, Garcia, Gomez, Goyal, Gurram, Hemayati, Hine, Holdener, Hong, Hope, Hussein, Jalinous, Juarez, Kabli, Kaler, Kapfer, Karkehabadi, Kelley, Kelly, Kolagotla, Kord, Levine, Lin, Lopez, Lord, Lynch, Mahmood, Mallampati, McCallam, Michak, Mohammad, Monahan, Nelson, Nelson, Nguyen, Novak, Oladele, Omid, Pavlenko, Phung, Pollard, Radcliffe, Rasheed, Rezadoost, Sarfaraz, Sargent, Shah, Smith, Sniegowski, Taheri, Terlecki, Tharp, Therrien, Tofighi, Usman, Uyar, Vanbellegheem, Webb, Winston, Zaheer, Zhang

Emeritus Faculty

Gantz

Programs

- Applied Cyber Security Graduate Certificate
- Applied Information Technology, MS
- Digital Media and Web Design Minor (CEC)
- Information Sciences Graduate Certificate
- Information Systems, MS (IST)

- Information Technology Minor
- Information Technology Undergraduate Certificate
- Information Technology, BS