Naveen Jindal School of Management

Master of Science in Information Technology and Management

36 semester credit hours minimum

Faculty


Professor Emeritus: Dale Osborne


Visiting Clinical Professor: Kyle Edgington

Associate Professors: Nina Baranchuk, Norris Bruce, Huseyin Cavusoglu, Jianqing Chen, Zhonglan Dai, Rebecca Files, Xianjun Geng, J. Richard Harrison, Dorothée Honhon, Kyle Hyndman, Surya N. Janakiraman, Robert L. Kieschnick Jr., Lívia Markóczy, Syam Menon, Toyah Miller, Alp Muharremoglu, Ramachandran (Ram) Natarajan, Valery Polkovnichenko, Orlando C. Richard, Young U. Ryu, Gil Sadka, Jane Salk, Harpreet Singh, David J. Springate, Upender Subramanian, Kelsey D. Wei, Jun Xia, Ying Xie, Yexiao Xu, Alejandro Zentner, Yuan Zhang, Feng Zhao, Yibin Zhou

Clinical Associate Professors: Sonia Leach, Carolyn Reichert, Avanti P. Sethi, Kelly Slaughter, James Szot, Mark Thouin, John McClain Watson

Assistant Professors: Mehmet Ayvaci, Emily Choi, Bernhard Ganglmair, Atanu Lahiri, Sheen Levine, Bin Li, Jun Li, Meng Li, Ningzhong Li, Xiaolin Li, Naim Bugra Ozel, Arzu Ozoguz, Anyan Qi, Alejandro Rivera Mesias, Alessio Saretto, Serdar Simsek, Gonca P. Soysal, Shaojie Tang, Christian Von-Drathen, Malcolm Wardlaw, Han (Victor) Xia, Steven Xiao, Shengqi Ye, Nir Yehuda, Jieying Zhang,
Degree Requirements

The Master of Science in Information Technology Management (MS ITM) degree requires a minimum of 36 semester credit hours, consisting of business core courses, IT core courses, IT elective courses, and free electives. The business core courses are designed to provide incoming students with the context to better appreciate and understand the complex issues that occur at the interface between IT and business.

The IT core courses cover the essentials of IT knowledge and the IT elective courses provide in-depth knowledge of the technology and technology management issues. In addition, students may choose approved electives that maximize their individual educational and professional goals. The program also offers opportunities for students to concentrate in specific tracks such as Enterprise Systems, Business Intelligence and Analytics, IT Consulting and Services Management, Healthcare Systems, and Cybersecurity Management, depending on their interests. Students can contact the advising office for the recommended courses for these tracks.

Students must maintain a 3.0 grade-point average (GPA) in both business core courses and in aggregate courses to qualify for the MS degree.

Course Requirements

Business Core Courses: minimum of 9 semester credit hours from the following

- **ACCT 6305** Accounting for Managers
- **FIN 6301** Financial Management
- **MECO 6303** Business Economics
- **MKT 6301** Marketing Management
OPRE 6301  Quantitative Introduction to Risk and Uncertainty in Business
OPRE 6302  Operations Management
OB 6301  Organizational Behavior

IT Core Courses: 12 semester credit hours

MIS 6316  Data Communications
MIS 6323  Object Oriented Programming
MIS 6326  Data Management
MIS 6308  Systems Analysis and Project Management

IT Electives: 9 semester credit hours

Choose 9 semester credit hours from the following list of courses that have an MIS prefix, excluding MIS 6204 and MIS 6320.

MIS 6302  Information Technology Strategy and Management
MIS 6309  Business Data Warehousing
MIS 6311  Cybersecurity Fundamentals
MIS 6317  Healthcare Informatics
MIS 6319  Enterprise Resource Planning
MIS 6324  Business Analytics with SAS
MIS 6330  Information Technology Security
MIS 6332  Advanced ERP: Configurations
MIS 6334  Advanced Business Analytics with SAS
MIS 6338  Accounting Systems Integration and Configuration
MIS 6344  Web Analytics
MIS 6345  High Performance Analytics
MIS 6346  Big Data Analytics
MIS 6356  Business Analytics with R
MIS 6357  Advanced Business Analytics with R
MIS 6360  Agile Project Management
MIS 6363  Cloud Computing
MIS 6364  Enterprise IT Architecture
MIS 6369 Supply Chain Software
MIS 6372 IT Services Management
MIS 6373 Social Media and Business
MIS 6378 Enterprise Systems and CRM
MIS 6380 Data Visualization
MIS 6V98 Information Systems Internship

Free Electives: 6 semester credit hours
Any course from the set of IT electives may be used as a free elective. In addition, any course from the set of business core courses, or any other graduate level business course, except MIS 6204 and MIS 6320 may be used as a free elective.

Graduate Certificate in Healthcare Information Technology
9 semester credit hours

Faculty
Professor: Indranil R. Bardhan
Assistant Professor: Mehmet Ayvaci

Overview
The Graduate Certificate in Health Information Technology emphasizes practical concepts in healthcare IT and hands on experience gained using electronic medical records (EMR) software. The focus will be on identification and understanding the key information required for managing and working with healthcare information systems. It also demonstrates the use of analytics and software tools related to healthcare information to develop sound healthcare decisions, particularly the core functionalities of the EMR software platform, including how to support clinical information workflows in a paperless environment, and the interconnectivity with other clinical and business systems.

Courses required for graduate certificate in health information technology (9 semester credit hours)

HMGT 6323 Health Informatics
HMGT 6327 Electronic Health Records
HMGT 6334 Healthcare Analytics
Graduate Certificate in Enterprise Systems

9 semester credit hours

Faculty

Assistant Professor: Atanu Lahiri
Clinical Assistant Professor: Judd Bradbury
Senior Lecturers: Eugene (Gene) Deluke, Mary Beth Goodrich, Luell (Lou) Thompson

Overview

The Graduate Certificate in Enterprise Systems emphasizes theoretical concepts in enterprise resource planning and hands on experience using SAP software. It provides broad exposure to various SAP functional modules such as sales and distribution, supply chain management, customer relationship management, procurement, human capital management, accounting, and data warehousing. Furthermore, the certificate program provides students with an opportunity to get an in-depth knowledge of two of these modules.

The Graduate Certificate in Enterprise Systems is awarded after completion of MIS 6319 Enterprise Resource Planning, and two of the courses listed below.

- **MIS 6309** Business Data Warehousing
- **MIS 6332** Advanced ERP: Configurations
- **MIS 6338** Accounting Systems Integration and Configuration
- **MIS 6369** Supply Chain Software
- **MIS 6378** Enterprise Systems and CRM

Graduate Certificate in Business Intelligence and Data Mining

12 semester credit hours

Faculty

Professors: John J. Wiorkowski, Zhiqiang (Eric) Zheng
Clinical Professors: Kutsal Dogan, Radha Mookerjee
Associate Professors: Huseyin Cavusoglu, Jianqing Chen, Xianjun Geng, Syam Menon
Clinical Associate Professor: Sonia Leach, Avanti P. Sethi
Assistant Professors: Atanu Lahiri, Zhe (James) Zhang

Clinical Assistant Professor: Judd Bradbury, Nassim Sohaee

Senior Lecturers: Monica E. Brussolo, Carol Flannery

Overview

The Graduate Certificate in Business Intelligence and Data Mining provides students with an understanding of how to analyze large complex data sets in order to solve business problems. It emphasizes theoretical concepts and clinical knowledge associated with the design, delivery and use of business intelligence and data mining techniques in organizations.

Required courses: 12 semester credit hours

- **MIS 6309** Business Data Warehousing (ITM Majors Only)
  - or **MIS 6320** Database Foundations (non-ITM Majors Only)
- **MIS 6324** Business Analytics with SAS
- **MIS 6334** Advanced Business Intelligence with SAS
- **OPRE 6301** Quantitative Introduction to Risk and Uncertainty in Business

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