Naveen Jindal School of Management

Information Technology and Systems (BS)

Bachelor of Science in Information Technology and Systems

Degree Requirements (120 semester credit hours)

Faculty


**Professor Emeritus:** Dale Osborne


**Associate Professors:** Nina Baranchuk, Norris Bruce, Huseyin Cavusoglu, Jianqing Chen, Zhonglan Dai, Xianjun Geng, Umit G. Gurun, J. Richard Harrison, Surya N. Janakiraman, Robert L. Kieschnick Jr., Nanda Kumar, Seung-Hyun Lee, Lívia Markóczy, Syam Menon, Toyah Miller, Alp Muhtarremoglu, Ramachandran (Ram) Natarajan, Valery Polkovnichenko, Ashutosh Prasad, Orlando C. Richard, Young U. Ryu, Gil Sadka, Jane Salk, David J. Springate, Kelsey D. Wei, Jun Xia, Ying Xie, Yexiao Xu, Alejandro Zentner, Yuan Zhang, Feng Zhao, Zhiqiang (Eric) Zheng, Yibin Zhou

**Clinical Associate Professors:** Sonia Leach, Carolyn Reichert, Kelly Slaughter, Mark Thouin, John McClain Watson

**Assistant Professors:** Mehmet Ayvaci, Emily Choi, Rebecca Files, Bernhard Ganglmair, Dorothée Honhon, Elisabeth Honka, Kyle Hyndman, Atanu Lahiri, Sheen Levine, Bin Li, Jun Li, Meng Li, Ningzhong Li, Virginie Lopez-Kidwell, Arzu Ozoguz, Anyan Qi, Alessio Saretto, Harpreet Singh, Gonca P. Soysal, Upender Subramanian, Shaojie Tang, Christian Von-Draathen, Malcolm Wardlaw, Han (Victor) Xia, Shengqi Ye, Nir Yehuda, Jiyuing Zhang, Xiaofei Zhao

**Clinical Assistant Professors:** Hans-Joachim Adler, Shawn Alborz, Athena Alimizraei, Moran Bluestein, John Gamino, Ayfer Gurun, Vance Lewis, Liping Ma, Dawn Owens, Anastasia V. Shcherbakova

**Senior Lecturers:** Arthur M. Agulnek, Semiramis Amirpour, Frank Anderson, Anindita Bardhan, Ronald
I. Core Curriculum Requirements: 42 semester credit hours

**Communication:** 6 semester credit hours

- **COMM 1311** Survey of Oral and Technology-based Communication
- **RHET 1302** Rhetoric

**Mathematics:** 3 semester credit hours

- **MATH 1325** Applied Calculus I

**Life and Physical Sciences:** 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences core courses (see advisor and degree requirements)

**Language, Philosophy and Culture:** 3 semester credit hours

Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

**Creative Arts:** 3 semester credit hours

Select any 3 semester credit hours from Creative Arts core courses (see advisor)

**American History:** 6 semester credit hours

Select any 6 semester credit hours from American History core courses (see advisor)

**Government / Political Science:** 6 semester credit hours

- **GOVT 2305** American National Government
- **GOVT 2306** State and Local Government

**Social and Behavioral Sciences:** 3 semester credit hours

- **ECON 2301** Principles of Macroeconomics

**Component Area Option:** 6 semester credit hours
II. Major Requirements: 75 semester credit hours

Major Preparatory Courses: 15 semester credit hours beyond Core Curriculum

- **ACCT 2301** Introductory Financial Accounting\(^3\)
- **ACCT 2302** Introductory Management Accounting\(^3\)
- **BLAW 2301** Business and Public Law\(^3\)
- **ECON 2301** Principles of Macroeconomics\(^3, 4\)
- **ECON 2302** Principles of Microeconomics\(^3, 4\)
- **MATH 1325** Applied Calculus I\(^3, 4, 5\)
- **MATH 1326** Applied Calculus II\(^3, 4, 5\)
- **OPRE 3333** Quantitative Business Analysis\(^3\)
  - or **MATH 2333** Matrices, Vectors, and Their Application\(^3, 6\)
- **STAT 3360** Probability and Statistics for Management and Economics
  - or **OPRE 3360** Managerial Methods in Decision Making Under Uncertainty

Major Core Courses: 25 semester credit hours

- **ITSS 3100** Professional Development
- **BCOM 3310** Business Communication
- **BCOM 4350** Advanced Business Communication
- **FIN 3320** Business Finance
- **ITSS 3300** Information Technology for Business
- **OPRE 3310** Operations Management
- **OBHR 3310** Organizational Behavior
- **MKT 3300** Principles of Marketing
- **IMS 3310** International Business

Major Related Courses: 23 semester credit hours

- **ITSS 3211** Introduction to Programming
- **ITSS 3312** Object-Oriented Programming
- **ITSS 4300** Database Fundamentals
ITSS 4330 Systems Analysis and Design
ITSS 4360 Network and Information Security
ITSS 4351 Foundations of Business Intelligence
ITSS 4370 Information Technology Management
ITSS 4390 Information Systems Capstone

Guided Electives: 12 semester credit hours (by selecting one track)

A. Business Intelligence and Analytics Track
   ITSS 4353 Business Analytics
   ITSS 4352 Introduction to Web Analytics
   ITSS 4354 Managing Big Data
   ITSS 4355 Data Visualization

B. Enterprise Systems Track
   ITSS 4340 Enterprise Resource Planning
   ITSS 4353 Business Analytics
   ITSS 4343 Integrated SCM Information Systems
   ACCT 4342 Analysis and Design of Accounting Systems

III. Elective Requirements: 3 semester credit hours

Free Electives: 3 semester credit hours

Both lower- and upper-division courses may count as electives but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

JSOM freshmen are required to take BA 1100 Business Basics.

Each student is expected to complete a minimum of 160 hours of business-related work to fulfill the JSOM professional practicum requirement.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. Indicates a prerequisite class to be completed before enrolling for upper-division classes.
4. A required Major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

5. Students may elect to substitute MATH 2413 and MATH 2414 or MATH 2417 and MATH 2419.

6. Students may substitute MATH 2418 or CS 2305.