Naveen Jindal School of Management

Information Technology and Systems (BS)

Bachelor of Science in Information Technology and Systems

**Degree Requirements** *(120 semester credit hours)*

*View an Example of Degree Requirements by Semester*

Faculty


**Professor Emeritus:** Dale Osborne

**Clinical Professors:** John Barden, Britt Berrett, Abhijit Biswas, Ranavir Bose, Pamela Foster Brady, Shawn Carraher, Larry Chasteen, Paul Convery, David Cordell, Kutsal Dogan, Howard Dover, Forney Fleming III, John Gamino, Randall S. Guttery, Charles Hazzard, William Hefley, Robert Hicks, Gerald (Jerry) Hoag, Marilyn Kaplan, Ching-Chung Kuo, Sonia Leach, Peter Lewin, Jeffrey Manzi, John F. McCracken, Dennis McCuistion, Diane S. McNulty, Divakar Rajamani, Daniel Rajaratnam, David Ritchey, Rajiv Shah, Mark Thouin, Keith Thurgood, Jeff Weekley, Habte Woldu, Fang Wu, Laurie L. Ziegler

**Associate Professors:** Mehmet Ayvaci, Nina Baranchuk, Norris Bruce, Jianqing Chen, Zhonglan Dai, Rebecca Files, Xianjun Geng, J. Richard Harrison, Dorothée Honhon, Kyle Hyndman, Surya N. Janakiraman, Robert L. Kieschnick Jr., Atanu Lahir, Jun Li, Ningzhong Li, Lívia Markóczy, Amit Mehra, Toyah Miller, Ramachandran (Ram) Natarajan, Naim Bugra Ozel, H. Dennis Park, Valery Polkovichenko, Cuili Qian, Orlando C. Richard, Young U. Ryu, Gil Sadka, Jane Salk, Harpreet Singh, David J. Springate, Upender Subramanian, Kelsey D. Wei, Han (Victor) Xia, Jun Xia, Ying Xie, Yexiao Xu, Alejandro Zentner, Jiaying Zhang, Yuan Zhang, Feng Zhao, Yibin Zhou

**Clinical Associate Professors:** Shawn Alborz, Steven Guengerich, Lale Guler, Dawn Owens, David Parks, Carolyn Reichert, Avanti P. Sethi, Kelly Slaughter, Jeanne Sluder, James Szot, McClain Watson

**Assistant Professors:** Qi (George) Chen, Khai Chiong, Emily Choi, Bernhard Ganglmair, Nathan Goldman, Ying Huang, Sora Jun, Sheen Levine, Meng Li, Xiaolin Li, Maria Loumioti, Jean-Marie Meier, Radha Mookerjee, Anyan Qi, Alejandro Rivera Mesias, Alessio Saretto, Simon Siegenthaler, Serdar
I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours

**COMM 1315** Public Speaking

or **COMM 1311** Survey of Oral and Technology-based Communication

**RHET 1302** Rhetoric

Mathematics: 3 semester credit hours

**MATH 1325** Applied Calculus

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**

Choose one of the following:

- **BA 1310** Making Choices in Free Market Systems\(^3\), \(^4\)
- **BA 1320** Business in a Global World\(^3\), \(^4\)
- **ECON 2301** Principles of Macroeconomics\(^3\), \(^4\)
- **ECON 2302** Principles of Microeconomics\(^3\), \(^4\)

**Component Area Option: 6 semester credit hours**

- **MATH 1326** Applied Calculus II\(^3\), \(^4\), \(^5\)

And one of the following:

- **BA 1310** Making Choices in Free Market Systems\(^3\), \(^4\)
- **BA 1320** Business in a Global World\(^3\), \(^4\)
- **ECON 2301** Principles of Macroeconomics\(^3\), \(^4\)
- **ECON 2302** Principles of Microeconomics\(^3\), \(^4\)

II. Major Requirements: 77 semester credit hours

**Major Preparatory Courses: 21 semester credit hours beyond Core Curriculum**

- **ACCT 2301** Introductory Financial Accounting\(^3\)
- **ACCT 2302** Introductory Management Accounting\(^3\)
- **BLAW 2301** Business and Public Law\(^3\)
- **BA 1310** Making Choices in Free Market Systems\(^3\), \(^4\)
  - or **ECON 2302** Principles of Microeconomics\(^3\), \(^4\)
- **BA 1320** Business in a Global World\(^3\), \(^4\)
  - or **ECON 2301** Principles of Macroeconomics\(^3\), \(^4\)
- **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\(^3\), \(^7\)
- **STAT 3360** Probability and Statistics for Management and Economics
  - or **OPRE 3360** Managerial Methods in Decision Making Under Uncertainty
ITSS 3311 Introduction to Programming
ITSS 3312 Object-Oriented Programming

Major Core Courses: 26 semester credit hours

BA 1100 Business Basics and ITSS 3100 Professional Development
  or ITSS 3200 Introduction to Business and 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
  or OBHR 3330 Introduction to Human Resource Management

MKT 3300 Principles of Marketing
IMS 3310 International Business

Major Related Courses: 18 semester credit hours

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 Infrastructure
ITSS 4390 Information Systems Capstone

Guided Electives: 12 semester credit hours

A practicum experience is required; the student has the option of zero to 3 semester credit hours, depending on the particular internship, and preference for additional electives.

ITSS 4V90 ITSS Internship
ITSS 4090 Information Technology and Systems Internship

A community engagement experience is required; the student has the option of zero or 3 semester credit hours, depending on the particular experience, and preference for additional electives.

IMS 4335 Social Sector Entrepreneurship and Community Engagement
  or ENTP 4340 Social Sector Entrepreneurship and Community Engagement
Choose from the following to fulfill remaining Guided Elective semester credit hours:

**Students may choose one of the following tracks:**

A. Business Intelligence and Analytics Track
   - **ITSS 4353** Business Analytics
   - **ITSS 4352** Introduction to Web Analytics
   - **ITSS 4354** Advanced Big Data Analytics
   - **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** or **ITSS 4342** Analysis and Design of Accounting Systems

C. General Track
   - Any ITSS upper level course, excluding **ITSS 4301** Database Systems, that is not part of the BS INTS major preparatory or major related courses may be used to satisfy the 12 hours of guided elective credit.

   **All prerequisites must be met.**

### III. Elective Requirements: 1 semester credit hours

**Free Electives: 1 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.

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. Certain courses listed are prerequisites for major core (e.g., BA 1320 or ECON 2301 for IMS 3310), major concentration, or major related courses. Choose accordingly.

7. Students may substitute MATH 2418 or CS 2305.

8. JSOM freshmen are required to take BA 1100 and ITSS 3100. Transfer students and students new to JSOM are required to take ITSS 3200.

9. ACCT 4301 or ITSS 4301 may not be used to satisfy BS INTS degree requirements.