UT Dallas 2017 Undergraduate Catalog

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, Pamela Foster Brady, Shawn Carracher, Paul Convery, David Cordell, Tefvik Dalgic, Michael Deegan, Kutsal Dogan, Howard Dover, Greg Durham, Forney Fleming III, Randall S. Guttery, Charles Hazzard, William Hefley, Robert Hicks, Gerald (Jerry) Hoag, Marilyn Kaplan, Peter Lewin, Jeffrey Manzi, John F. McCracken, Dennis McCuistion, Diane S. McNulty, Radha Mookerjee, Joseph Picken, Divakar Rajamani, Daniel Rajaratnam, David Ritchey, Arthur Selender, Rajiv Shah, Kenneth Smith, Habte Woldu, Fang Wu, Laurie L. Ziegler

**Associate Professors:** Nina Baranchuk, Norris Bruce, Jianqing Chen, Zhonglan Dai, Xianjun Geng, J. Richard Harrison, Ernan E. Haruvy, Surya N. Janakiraman, Robert L. Kieschnick Jr., Seung-Hyun Lee, Ningzhong Li, Livia Markóczy, Amit Mehra, Toyah Miller, Alp Muharremoglu, Ramachandran (Ram) Natarajan, Valery Polkovnichenko, Ashutosh Prasad, Orlando C. Richard, Young U. Ryu, Gil Sadka, Jane Sark, 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, Zhiqiang (Eric) Zheng, Yibin Zhou

**Clinical Associate Professors:** Shawn Alborz, Larry Chasteen, Sonia Leach, Kannan Ramanathan, Carolyn Reichert, Avanti P. Sethi, Kelly Slaughter, James Szot, Mark Thouin, McClain Watson

**Assistant Professors:** Mehmet Ayvacı, Emily Choi, Rebecca Files, Bernhard Ganglmair, Dorothée Honhon, Kyle Hyndman, Atanu Lahiri, Sheen Levine, Bin Li, Jun Li, Meng 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, Steven Xiao, Chengqi Ye, Nir Yehuda, Zhe (James) Zhang, Xiaofei Zhao

**Clinical Assistant Professors:** Athena Alimizaei, Moran Blueshtein, Judd Bradbury, John Gamino, Ayfer Gurun, Maria Hasenhuttl, Julie Haworth, Jeffery (Jeff) Hicks, Kristen Lawson, Vance Lewis, Liping Ma, Ravi Narayan, Dawn Owens, Anastasia V.
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: 77 semester credit hours

Major Preparatory Courses: 15 semester credit hours beyond Core Curriculum

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

Major Core Courses: 26 semester credit hours

- BA 1100 Business Basics and ITSS 3100 Professional Development
  or ITSS 3200 Introduction to Business Professional Development and Business Communication
- 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: 24 semester credit hours

- ITSS 3311 Introduction to Programming
- ITSS 3312 Object-Oriented Programming
- ITSS 4300 Database Fundamentals
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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>ITSS 4V90</td>
<td>ITSS Internship</td>
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<tr>
<td>ITSS 4090</td>
<td>Information Technology and Systems Internship</td>
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Choose from the following to fulfill remaining Guided Elective semester credit hours:
Any ITSS upper level course that is not part of the ITS Core Curriculum may be used as elective credit. This includes ITSS 4V95 Seminar Series in Information Systems.

OR choose Track A or B:

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 Analysis and Design of Accounting Systems

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. Students may substitute MATH 2418 or CS 2305.

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