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


Associate Professors: Mehmet Ayvaci, Nina Baranchuk, Zhonglan Dai, Rebecca Files, Michael Hasler, Dorothée Honhon, Bin Hu, Surya N. Janakiraman, Robert L. Kieschnick Jr., Atanu Lahiri, Jun Li, Ningzhong Li, Maria Loumioti, Lívia Markóczy, Ramachandran (Ram) Natarajan, Naim Bugra Ozel, H. Dennis Park, Anyan Qi, Young U. Ryu, Harpreet Singh, David J. Springate, Upender Subramanian, Shaojie Tang, Shouqiang Wang, Kelsey D. Wei, Han (Victor) Xia, Yexiao Xu, Alejandro Zentner, Jieying Zhang, Yuan Zhang, Feng Zhao, Yibin Zhou

Assistant Professors: Khai Chiong, Rafael Copat, Soraya Fatehi, Andrew Frazelle, Ying Huang, Joonhwi Joo, Sora Jun, Jason Kautz, Tongil Kim, Sheen Levine, Christopher Mace, Samir Mamadehussene, Jean-Marie Meier, Zixuan Meng, Radha Mookerjee, Jedson Pinto, Ignacio Rios Uribe, Alejandro Rivera Mesias, Simon Siegenthaler, Serdar Simsek, Kirti Sinha, Shujing Sun, Xiaoxiao Tang, Shervin Tehrani, Ashwin Venkataraman, Christian Von-Drathen, Guihua Wang, Hongchang Wang, Pingle Wang, Junfeng Wu, Steven Xiao, Zhe (James) Zhang

Professor Emeritus: R. Chandrasekaran

Clinical Professors: John Barden, Britt Berrett, Abhijit Biswas, Pamela Foster Brady, Shawn Carraher, Larry Chasteen, Paul Convery, Tevfik Dalgic, Howard Dover, John Gamino, Randall S. Guttery, William Hefley, Robert Hicks, Robert Kaiser, Marilyn Kaplan, Van Latham, Sonia Leach, Peter Lewin, Jeffrey Manzi, John F. McCracken, Diane S. McNulty, Larry Norton, Divakar Rajamani, Daniel Rajaratnam, Kannan Ramanathan, Prakash Shrivastava, Mark Thouin, McClain Watson, Jeff Weekley, Habte Woldu,
Fang Wu, Laurie L. Ziegler

**Clinical Associate Professors:** Shawn Alborz, Dawn Owens, Carolyn Reichert, Avanti P. Sethi, Ramesh Subramoniam, James Szot, Aysegul Toptal, David Widdifield

**Clinical Assistant Professors:** Athena Alimirzaei, Christina (Krysta) Betanzos, Moran Blueshtein, Judd Bradbury, Jeffery (Jeff) Hicks, Dupinderjeet Kaur, Revansiddha Khanapure, Kristen Lawson, Kathryn Lookadoo, Liping Ma, Sarah Moore, Parneet Pahwa, Jason Parker

**Professors of Instruction:** Semiramis Amirpour, Mary Beth Goodrich, Chris Linsteadt, Suzette Plaisance Bryan, Luell (Lou) Thompson

**Associate Professors of Instruction:** Monica E. Brussolo, Ayfer Gurun, Maria Hasenhuttl, Jennifer G. Johnson, Mohammad Naseri Taheri, Hirofumi Nishi, Daniel Sibley, AgnieszkaSKUZA, Hubert Zydorek

**Assistant Professors of Instruction:** Negin Enayaty Ahangar, Julie Haworth, Daniel Karnuta, Victoria D. McCrady, Rasoul Ramezani, Gaurav Shekhar

**Professors of Practice:** Gregory Ballew, Tiffany A. Bortz, Ranavir Bose, Alexander Edsel, Charles Haseman, Rajiv Shah, Donald Taylor, Keith Thurgood

**Associate Professors of Practice:** Nozar Hassanzadeh, Jackie Kimzey, Julie Lynch, Jennifer Murray, David Parks, Margaret Smallwood, Steven Solcher, Kathy Zolton

**Assistant Professors of Practice:** Khatereh Ahadi, Steven Haynes, Abu Naser Islam, Scott Janke, Edward Meda, Timothy Stephens

**Senior Lecturers:** Thomas (Tom) Henderson, Joseph Mauriello, Robert (Stephen) Molina, Prithi Narasimhan, Paul Nichols, Matt Polze, Guido Tirone, Robert Wright

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I. Core Curriculum Requirements: 42 semester credit hours

**Communication:** 6 semester credit hours

Select any 6 semester credit hours from **Communication Core** courses (see advisor)

**Mathematics:** 3 semester credit hours

[MATH 1325](#) Applied Calculus [1](#) [4](#) [5](#) [6](#)

Or select any 3 semester credit hours from **Mathematics Core** courses (see advisor)

**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
Or select any 6 semester credit hours from Government/Political Science Core courses (see advisor)

Social and Behavioral Sciences: 3 semester credit hours
Choose one of the following:
BA 1310 Making Choices in Free Market Systems
BA 1320 Business in a Global World
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
Or select any 3 semester credit hours from Social and Behavioral Sciences Core courses (see advisor)

Component Area Option: 6 semester credit hours
Choose two of the following:
MATH 1326 Applied Calculus II
BA 1310 Making Choices in Free Market Systems
BA 1320 Business in a Global World
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
Or select any 6 semester credit hours from Component Area Option Core courses (see advisor)

II. Major Requirements: 75-78 semester credit hours

Major Preparatory Courses: 21-24 semester credit hours beyond Core Curriculum
ACCT 2301 Introductory Financial Accounting
ACCT 2302 Introductory Management Accounting
BLAW 2301  Business and Public Law
MATH 1325  Applied Calculus I
MATH 1326  Applied Calculus II
or OPRE 3340  Advanced Business Quantitative Methods
OPRE 3333  Quantitative Business Analysis
or MATH 2333  Matrices, Vectors, and Their Application
OPRE 3360  Managerial Methods in Decision Making Under Uncertainty
or STAT 3360  Probability and Statistics for Management and Economics
ITSS 3311  Introduction to Programming
ITSS 3312  Object-Oriented Programming
or ITSS 4381  Object Oriented Programming with Python
Choose two of the following:
BA 1310  Making Choices in Free Market Systems
BA 1320  Business in a Global World
ECON 2301  Principles of Macroeconomics
ECON 2302  Principles of Microeconomics

Major Core Courses: 24 semester credit hours

BCOM 1300  Introduction to Professionalism and Communication in Business
or BCOM 3300  Professionalism and Communication in Business
BCOM 4300  Managing Communications in Business
IMS 3310  International Business
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

A community engagement experience is required:
BA 4095  Social Sector Engagement and Community Outreach Practicum

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 4395 Capstone Senior Project - Information Systems
    or BPS 4395 Capstone Senior Project - Business
A practicum experience of at least 160 working hours is required:
    ITSS 4090 Information Technology and Systems Internship
    BA 4090 Management Internship

Guided Electives: 12 semester credit hours

The BS ITS degree program gives students the opportunity to focus in a specific track to obtain in-depth knowledge in a specific business area.

Students will choose one of the following tracks:

A. Business Intelligence and Analytics Track

    ITSS 4352 Introduction to Web Analytics
    ITSS 4353 Business Analytics
    ITSS 4354 Advanced Big Data Analytics
    ITSS 4355 Data Visualization

B. Enterprise Systems Track

    ITSS 4340 Enterprise Resource Planning
    ITSS 4343 Integrated SCM Information Systems
    ITSS 4344 CRM using Salesforce
    ACCT 4342 Analysis and Design of Accounting Systems
    or ACCT 3322 Integrated Accounting Information Systems

C. IT Sales Engineering Track

    ITSS 4340 Enterprise Resource Planning
    MKT 3330 Introduction to Professional Selling
    MKT 4331 Digital Prospecting
or **MKT 4332** Advanced Professional Sales

Any ITSS upper-division course, excluding **ITSS 4301** Database Systems, that is not part of the BS INTS major preparatory, major core, or major related courses.

### D. IT Product Development Track

**ENTP 3301** Innovation and Entrepreneurship  
**ENTP 3320** Start-up Launch I  

Any 2 ITSS upper-division courses, excluding **ITSS 4301** Database Systems, that are not part of the BS INTS major preparatory, major core, or major related courses.

### E. Cybersecurity Management Track

**ITSS 4356** Data Governance  
**ITSS 4361** Information Technology Cybersecurity  
**ITSS 4362** Cybersecurity Governance  

Any ITSS upper-division course, excluding **ITSS 4301** Database Systems, that is not part of the BS INTS major preparatory, major core, or major related courses.

### F. General Track

Any 12 SCH of ITSS upper-division courses, excluding **ITSS 4301** Database Systems, that are not part of the BS INTS major preparatory, major core, or major related courses may be used to satisfy the 12 semester credit hours of guided elective credit.

All prerequisites must be met.

### III. Elective Requirements: 0-3 semester credit hours

**Free Electives: 0-3 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.

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 or MATH 2417 for MATH 1325. Students may elect to substitute MATH 2414 or MATH 2419 for MATH 1326.

6. In order to make timely degree progress, students should complete MATH 1325 or its equivalent by the end of their first semester at UT Dallas. Students who will not meet this requirement should contact their academic advisor to discuss their degree timeline.

7. Certain courses listed are prerequisites for major core, major concentration, or major related courses. Choose accordingly.

8. Students may substitute MATH 2418 or CS 2305.

9. Students who have completed CS 1336 with a C or better may replace ITSS 3311 with an additional ITSS upper-division course (excluding ITSS 4301).

10. Students who have completed CS 1337 with a C or better may replace ITSS 3312 with an additional ITSS upper-division course (excluding ITSS 4301).

11. ITSS 4381 can satisfy the ITSS 3312 major preparatory requirement in prior BS INTS catalogs as long as the course is not used elsewhere on the degree plan.

12. JSOM first-time-in-college freshmen are required to take BCOM 1300 in their first semester. Transfer students and students new to JSOM are required to take BCOM 3300 in their first semester.

13. Students may fulfill the community engagement requirement with BA 4095, IMS 4335, ENTP 4340, or MKT 4360. The zero semester credit hour course BA 4095 is recommended as the most efficient way to satisfy this requirement.

14. Students may fulfill the internship requirement with ITSS 4090, BA 4090, or ITSS 4v90 (1-3 semester credit hours). The zero semester credit hour courses ITSS 4090 or BA 4090 are recommended as the most efficient way to satisfy this requirement.

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