Information Technology and Systems (BS)

Bachelor of Science in Information Technology and Systems

Degree Requirements [120 semester credit hours]¹

View an Example of Degree Requirements by Semester

Faculty


Professor Emeritus: Dale Osborne


Associate Professors: Nina Baranchuk, Norris Bruce, Jianqing Chen, Zhonglan Dai, Rebecca Files, Xianjun Geng, J. Richard Harrison, Dorothee Honhon, Kyle Hyndman, Surya N. Janakiraman, Robert L. Kieschnick Jr., Atanu Lahiri, Jun Li, Ningzhong Li, Lívia Markóczy, Amit Mehra, Toyah Miller, Ramachandran (Ram) Natarajan, Naim Bugra Ozel, H. Dennis Park, Valery Polkovnichenko, Cuili Qian, 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, Jieying Zhang, Yuan Zhang, Feng Zhao, Yibin Zhou

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

Assistant Professors: Mehmet Ayvaci, 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, Anany Qi, Alejandro Rivera Mesias, Alessio Saretto, Simon Siegenthaler, Serdar Simsek, Shaojie Tang, Christian Von-Drathen, Shouqiang Wang, Malcolm Wardlaw, Junfeng Wu, Steven Xiao, Shengqi Ye, Nir Yehuda, Zhe (James) Zhang, Xiaofei Zhao

Clinical Assistant Professors: Shawn Alborz, Athena Alimirzai, Christina (Krysta)
Betanzos, Moran Blueshtein, Judd Bradbury, Jerome Gafford, Ayfer Gurun, Maria Hasenhuttl, Julie Haworth, Jeffery (Jeff) Hicks, Revansiddha Khanapure, Kristen Lawson, Kathryn Lookadoo, Liping Ma, Sarah Moore, Ravi Narayan, Dawn Owens, Parneet Pahwa, Jason Parker, Drew Peabody, Nassim Sohaee

**Senior Lecturers:** Semiramis Amirpour, Frank Anderson, Vivek Arora, Tiffany A. Bortz, Richard Bowen, Monica E. Brussolo, Juliann Chapman, George DeCourcy, Eugene (Gene) Deluke, Alexander Edsel, Amal El-Ashmawi, Carol Flannery, Mary Beth Goodrich, Thomas (Tom) Henderson, Jennifer G. Johnson, Jackie Kimzey, Chris Linsteadt, Joseph Mauriello, Victoria D. McCrady, Edward Meda, Robert (Stephen) Molina, Prithi Narasimhan, Mohammad Naseri Taheri, Madison Pedigo, Matt Polze, James Richards, Debra Richardson, Anindita Roy Bardhan, Kashif Saeed, Margaret Smallwood, Steven Solcher, Luell (Lou) Thompson, Amy L. Troutman, Robert Wright, Kathy Zolton, Hubert Zydorek

I. Core Curriculum Requirements: 42 semester credit hours

**Communication:** 6 semester credit hours


**Mathematics:** 3 semester credit hours


**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


**Social and Behavioral Sciences:** 3 semester credit hours
Choose one of the following:

- **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 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** Principles of Business Decision Making
  - or **ECON 2301** Principles of Macroeconomics\(^3,4\)
- **BA 1320** Business in a Global World\(^3,4\)
  - or **ECON 2302** Principles of Microeconomics\(^3,4\)
- **MATH 1325** Applied Calculus\(^3,4,5\)
- **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
- **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\(^7\)
  - or **ITSS 3200** Introduction to Business and Professional Development\(^7\)
**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 Management  
- **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.

- **ENTP 4340** Social Sector Engagement and Community Outreach  
- **BA 4095** Social Sector Engagement and Community Outreach Practicum

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,8 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. This includes ITSS 4V95 Seminar Series in Information 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.
8. ACCT 4301 or ITSS 4301 may not be used to satisfy BS INTS degree requirements.

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