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, Norris Bruce, Jianqing Chen, Zhonglan Dai, Rebecca Files, Dorothée Honhon, Bin Hu, 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, Cuili Qian, Orlando C. Richard, Young U. Ryu, Gil Sadka, 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

**Assistant Professors:** Khai Chiong, Emily Choi, Andrew Frazelle, Ying Huang, Joonhwi Joo, Sora Jun, Sheen Levine, Meng Li, Maria Loumioti, Jean-Marie Meier, Radha Mookerjee, Anyan Qi, Alejandro Rivera Mesias, Alessio Saretto, Simon Siegenthaler, Serdar Simsek, Shaojie Tang, Xiaoxiao Tang, Shervin Tehrani, Ashwin Venkataraman, Christian Von-Drathen, Guihua Wang, Shouqiang Wang, Junfeng Wu, Steven Xiao, Yingjie Zhang, Zhe (James) Zhang, Xiaofei Zhao

**Professors Emeriti:** Dale Osborne, John J. Wiorkowski

**Assistant Professors Emeriti:** J. Richard Harrison, Jane Salk

**Clinical Professors:** John Barden, Britt Berrett, Abhijit Biswas, Ranavir Bose, Shawn Carraher, Larry Chasteen, David Cordell, Howard Dover, John Gamino, Randall S. Guttery, Charles Hazzard, William Hefley, Marilyn Kaplan, Sonia Leach, Peter Lewin, Jeffrey Manzi, Diane S. McNulty, Divakar Rajamani, Daniel Rajaratnam, Kannan Ramanathan, David Ritchey, Rajiv Shah, Mark Thouin, Jeff Weekley, Habte Woldu, Fang Wu, Laurie L. Ziegler
Clinical Associate Professors: Shawn Alborz, Dawn Owens, Avanti P. Sethi, Ramesh Subramoniam, Aysegul Toptal, McClain Watson, David Widdifield, dxp153830. carolyn

Clinical Assistant Professors: Athena Alimirzaei, Moran Blueshtein, Judd Bradbury, Sourav Chatterjee, Jerome Gafford, Ayfer Gurun, Maria Hasenhuttl, Julie Haworth, Jeffery (Jeff) Hicks, Revansiddha Khanapure, Kristen Lawson, Kathryn Lookadoo, Liping Ma, Sarah Moore, Ravi Narayan, Parneet Pahwa, Jason Parker, Drew Peabody, Nassim Sohaee

Assistant Professor of Instruction: Rasoul Ramezani


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 [3, 4, 5]

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
- **BA 1320** Business in a Global World
- **ECON 2301** Principles of Macroeconomics
- **ECON 2302** Principles of Microeconomics

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

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
- **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
- **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

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

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
or ENTP 4395 Capstone Senior Project- Entrepreneurship

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  
-or **MKT 4360** Social Marketing  
-or **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, 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: 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. Certain courses listed are prerequisites for major core (e.g., BA 1310 or 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 BCOM 1300. Transfer students and students new to JSOM are required to take BCOM 3300.

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