Naveen Jindal School of Management

Healthcare Management and Biology (Double Major) (BS)

Bachelor of Science in Healthcare Management and Biology (Double Major)

Degree Requirements (148-149 semester credit hours)\(^1\) \(^2\)

JSOM 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, Jieying 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


NSM Faculty

Professors: Rockford K. Draper, Juan E. González, Lawrence J. Reitzer, Stephen Spiro, Li Zhang, Michael Qiwei Zhang

Associate Professors: John G. Burr, Jeff L. DeJong, Heng Du, Tae Hoon Kim, Kelli Palmer, Duane D. Winkler, Zhenyu Xuan

Assistant Professors: Zachary Campbell, Nicole De Nisco, Nikki Delk, Jyoti Misra, Faruck Morcos

Professors Emeritus: Hans Bremer, Lee A. Bulla, Donald M. Gray

Associate Professors Emeritus: Gail A. M. Breen, Dennis L. Miller

Clinical Professor: David Murchison

Research Assistant Professors: Lan Guo, Li Liu

Assistant Professors of Instruction: Caitlin Braitsch, Ida Klang, Eva Sadat, Zhuoru Wu

Senior Lecturers: Mehmet Candas, Wen-Ju Lin, Meenakshi Maitra, Robert C. Marsh, Iti Mehta, Jing Pan, Elizabeth Pickett, Ruben D. Ramirez, Scott A. Rippel, Ilya Sapochnikov, Subha Sarcar, Uma Srikanth, Michelle Wilson, Wen-Ho Yu

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 2413 Differential Calculus
Life and Physical Sciences: 6 semester credit hours

- CHEM 1311 General Chemistry 4
  - or CHEM 1315 Honors Freshman Chemistry 4
  - CHEM 1312 General Chemistry II 4
  - or CHEM 1316 Honors Freshman Chemistry II 4

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 8, 4
- BA 1320 Business in a Global World 8, 4
- ECON 2301 Principles of Macroeconomics 8, 4
- ECON 2302 Principles of Microeconomics 8, 4

Component Area Option: 6 semester credit hours

Choose two of the following:

- MATH 2414 Integral Calculus 6, 5, 9
- BA 1310 Making Choices in Free Market Systems 8, 4
- BA 1320 Business in a Global World 8, 4
- ECON 2301 Principles of Macroeconomics 8, 4
- ECON 2302 Principles of Microeconomics 8, 4
II. Major Requirements: 85-86 semester credit hours

Business Major Preparatory Courses: 12 semester credit hours beyond Core Curriculum

- **ACCT 2301** Introductory Financial Accounting^7
- **ACCT 2302** Introductory Management Accounting^8
- **BLAW 2301** Business and Public Law^8
- **OPRE 3360** Managerial Methods in Decision Making Under Uncertainty
  - or **STAT 2332** Introductory Statistics for Life Sciences
  - or **STAT 3360** Probability and Statistics for Management and Economics

Choose two of the following:^7

- **BA 1310** Making Choices in Free Market Systems^8, 4
- **BA 1320** Business in a Global World^8, 4
- **ECON 2301** Principles of Macroeconomics^8, 4
- **ECON 2302** Principles of Microeconomics^8, 4

Business Core Courses: 24 semester credit hours

- **BCOM 1300** Introduction to Professionalism and Communication in Business^10
  - or **BCOM 3300** Professionalism and Communication in Business^10
- **BCOM 4300** Managing Communications in Business
- **FIN 3320** Business Finance
- **IMS 3310** International Business
- **ITSS 3300** Information Technology for Business
- **OBHR 3330** Introduction to Human Resource Management
  - or **OBHR 3310** Organizational Behavior
- **OPRE 3310** Operations Management
- **MKT 3300** Principles of Marketing

Biology Major Preparatory Courses: 20-21 semester credit hours beyond Core Curriculum

- **CHEM 1111** General Chemistry Laboratory I
  - or **CHEM 1115** Honors Freshman Chemistry Laboratory I
- **CHEM 1112** General Chemistry Laboratory II
  - or **CHEM 1116** Honors Freshman Chemistry Laboratory II
CHEM 1311 General Chemistry I

or CHEM 1315 Honors Freshman Chemistry I

CHEM 1312 General Chemistry II

or CHEM 1316 Honors Freshman Chemistry II

CHEM 2123 Introductory Organic Chemistry Laboratory I

CHEM 2125 Introductory Organic Chemistry Laboratory II

CHEM 2323 Introductory Organic Chemistry I

CHEM 2325 Introductory Organic Chemistry II

MATH 2413 Differential Calculus

MATH 2414 Integral Calculus

PHYS 2325 Mechanics and PHYS 2125 Physics Laboratory I

or PHYS 2421 Honors Physics I - Mechanics and Heat

or PHYS 1301 College Physics I and PHYS 2125 Physics Laboratory I

PHYS 2326 Electromagnetism and Waves

or PHYS 2422 Honors Physics II - Electromagnetism and Waves

or PHYS 1302 College Physics II

PHYS 2126 Physics Laboratory II

**Biology Core Courses: 29 semester credit hours**

BIOL 2111 Introduction to Modern Biology Workshop I

BIOL 2112 Introduction to Modern Biology Workshop II

BIOL 2281 Introductory Biology Laboratory

BIOL 2311 Introduction to Modern Biology I

BIOL 2312 Introduction to Modern Biology II

BIOL 3101 Classical and Molecular Genetics Workshop

BIOL 3102 Eukaryotic Molecular and Cell Biology Workshop

BIOL 3161 Biochemistry Workshop I

BIOL 3162 Biochemistry Workshop II

BIOL 3301 Classical and Molecular Genetics

BIOL 3302 Eukaryotic Molecular and Cell Biology

BIOL 3361 Biochemistry I
III. Elective Requirements: 21 semester credit hours

**Guided Electives: 21 semester credit hours**

A zero semester credit hour practicum experience is required.

**HMGT 4090** Healthcare Management Internship

A zero semester credit hour community engagement experience is required.

**BA 4095** Social Sector Engagement and Community Outreach Practicum

The following courses fulfill a portion of the remaining Guided Elective semester credit hours:

**Healthcare Management Core Courses: 18 semester credit hours**

- **HMGT 3301** Introduction to Healthcare Management
- **HMGT 3311** Healthcare Accounting
- **HMGT 3320** Complex and Dynamic Healthcare Environment
- **HMGT 4321** Introduction to Healthcare Information Systems
- **HMGT 3310** Healthcare Regulatory Environment
- **HMGT 4395** Capstone Senior Project - Healthcare Management
  - or **BPS 4395** Capstone Senior Project - Business
  - or **ENTP 4395** Capstone Senior Project - Entrepreneurship

**Biology (3 semester credit hours):**

- **BIOL 4380** Cell and Molecular Biology Laboratory¹²
  - or **BIOL 3V96** Undergraduate Research in Molecular and Cell Biology
  - or **BIOL 4391** Senior Research in Molecular and Cell Biology
  - or **BIOL 4399** Senior Honors Research for Thesis in Molecular and Cell Biology

All students must complete at least 51 semester credit hours of upper-division courses to graduate.

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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. Degree is 149-150 semester credit hours if students are required to take NATS 1101.

3. 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.

4. A required Major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

5. Six semester credit hours of Calculus are counted under Mathematics Core and Component Area Option Core, and 2 semester credit hours of Calculus are counted as Biology Major Preparatory Courses.

6. Students may elect to substitute MATH 2417 for MATH 2413.

7. 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.

8. Indicates a prerequisite class to be completed before enrolling for upper-division classes.

9. Students may elect to substitute MATH 2419 for MATH 2414.

10. JSOM freshmen are required to take BCOM 1300. Transfer students and students new to JSOM are required to take BCOM 3300.

11. Students who complete PHYS 2421 do not need to complete PHYS 2125.

12. Requires permission of the Biology Undergraduate Advisor to ensure training in recombinant DNA analysis.

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