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)*

**JSOM Faculty**


**Associate Professors:** Mehmet Ayvaci, Nina Baranchuk, Norris Bruce, Zhonglan Dai, Rebecca Files, Dorothée Honhon, Bin Hu, Surya N. Janakiraman, Robert L. Kieschnick Jr., Atanu Lahiri, Jun Li, Ningzhong Li, Maria Loumioti, Lívia Markóczy, Toyah Miller, 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 (Vctor) Xia, Yexiao Xu, Alejandro Zentner, Jiying 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, Jean-Marie Meier, Radha Mookerjee, Alejandro Rivera Mesias, Alessio Saretto, Simon Siegenthaler, Serdar Simsek, Xiaoxiao Tang, Shervin Tehran, Ashwin Venkataraman, Christian Von-Drathen, Guihua Wang, Junfeng Wu, Steven Xiao, Yingjie Zhang, Zhe (James) Zhang, Xiaofei Zhao

**Professor Emeritus:** John J. Wiorkowski

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

**Clinical Professors:** John Barden, Britt Berrett, Abhijit Biswas, Shawn Carraher, Larry Chasteen, David Cordell, Howard Dover, John Gamino, Randall S. Guttery, William Hefley, Marilyn Kaplan, Sonia Leach, Peter Lewin, Jeffrey Manzi, Diane S. McNulty, Divakar Rajamani, Daniel Rajaratnam, Kannan Ramanathan, 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, Aysegul Toptal, David Widdifield

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

Professors of Instruction: Semiramis Amirpour, Charles Hazzard, Luell (Lou) Thompson

Associate Professors of Instruction: Ayfer Gurun, Maria Hasenhuttl, Mohammad Naseri Taheri

Assistant Professors of Instruction: Negin Enayaty Ahangar, Julie Haworth, Rasoul Ramezani, Gaurav Shekhar

Professors of Practice: Ranavir Bose, Rajiv Shah

Associate Professor of Practice: David Parks

Assistant Professors of Practice: Abu Naser Islam, Scott Janke, Timothy Stephens

Senior Lecturers: Khatereh Ahadi, Tiffany A. Bortz, Richard Bowen, Monica E. Brussolo, Juliann Chapman, George DeCourcy, Alexander Edsel, Amal El-Ashmawi, 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, Madison Pedigo, Matt Polze, Margaret Smallwood, Steven Solcher, Guido Tirone, Robert Wright, Kathy Zolton, Hubert Zydorek

NSM Faculty

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

Associate Professors: John G. Burr, Zachary Campbell, Jeff L. DeJong, Nikki Delk, Heng Du, Tae Hoon Kim, Faruck Morcos, Kelli Palmer, Duane D. Winkler, Zhenyu Xuan

Assistant Professors: Nicole De Nisco, Jyoti Misra

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

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

Clinical Professor: David Murchison

Research Assistant Professors: Lan Guo, Li Liu

Professors of Instruction: Scott A. Rippel, Uma Srirkanth

Associate Professors of Instruction: Mehmet Candas, Wen-Ju Lin, Elizabeth Pickett, Ilya Sapozhnikov, Michelle Wilson

Assistant Professors of Instruction: Ida Klang, Meenakshi Maitra, Caitlin Maynard, Iti Mehta, Jing Pan, Ruben D. Ramirez, Eva Sadat, Subha Sarcar, Zhuoru Wu

Senior Lecturer: 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

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

Life and Physical Sciences: 6 semester credit hours

CHEM 1311 General Chemistry I

or CHEM 1315 Honors Freshman Chemistry I

CHEM 1312 General Chemistry II

or CHEM 1316 Honors Freshman Chemistry II

Or select any 6 semester credit hours from Life and Physical Sciences Core courses (see advisor)

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 2414 Integral Calculus
- 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: 85-86 semester credit hours

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

- ACCT 2301 Introductory Financial Accounting
- ACCT 2302 Introductory Management Accounting
- BLAW 2301 Business and Public Law
- 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:

- 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

Business 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
- 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
  or 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 Workshop I

**BIOL 3362** Biochemistry Workshop II

or **BIOL 3335** Microbial Physiology

**BIOL 3380** Biochemistry Laboratory

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**III. Elective Requirements: 21 semester credit hours**

**Guided Electives: 21 semester credit hours**

A practicum experience of at least 160 working hours is required.

- **HMGT 4090** Healthcare Management Internship

- **BA 4090** Management Internship

A 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 3310** Healthcare Regulatory Environment
- **HMGT 3311** Healthcare Financial Analysis
- **HMGT 3320** Complex and Dynamic Healthcare Environment
  
or **ECON 3330** Economics of Health
- **HMGT 4321** Introduction to Healthcare Information Systems
- **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 Laboratory

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.

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

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

6. 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.

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

8. In order to make timely degree progress, students should complete MATH 2413 or MATH 2417 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.

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

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

11. 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.

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

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

14. 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.

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

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