Naveen Jindal School of Management

Healthcare Management and Molecular Biology (Double Major) (BS)

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

**Degree Requirements** (154 semester credit hours)¹ ²

JSOM Faculty


**Professor Emeritus:** Dale Osborne


**Associate Professors:** Nina Baranchuk, Norris Bruce, Jianqing Chen, Zhonglan Dai, Rebecca Files, Xianjun Geng, J. Richard Harrison, Eran E. Haruvy, Surya N. Janakiraman, Robert L. Kieschnick Jr., Seung-Hyun Lee, Ningzhong Li, Lívia Markóczy, Amit Mehra, Toyah Miller, Alp Muharremoglu, Ramachandran (Ram) Natarajan, Valery Polkovnichenko, Ashutosh Prasad, Orlando C. Richard, Young U. Ryu, Gil Sadka, Jane Salk, 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, Zhiqiang (Eric) Zheng, Yibin Zhou

**Clinical Associate Professors:** Shawn Alborz, Larry Chasteen, Sonia Leach, Kannan
Ramanathan, Carolyn Reichert, Avanti P. Sethi, Kelly Slaughter, James Szot, Mark Thouin, McClain Watson

**Assistant Professors:** Mehmet Ayvaci, Emily Choi, Bernhard Ganglmair, Dorothée Honhon, Kyle Hyndman, Atanu Lahiri, Sheen Levine, Bin Li, Jun Li, Meng Li, Xiaolin Li, Naim Bugra Ozel, Arzu Ozoguz, Anyan Qi, Alejandro Rivera Mesias, Alessio Saretto, Serdar Simsek, Gonca P. Soysal, Shaojie Tang, Christian Von-Drathen, Malcolm Wardlaw, Steven Xiao, Shengqi Ye, Nir Yehuda, Zhe (James) Zhang, Xiaofei Zhao

**Clinical Assistant Professors:** Athena Alimirzaei, Moran Blueshtein, Ayfer Gurun, Maria Hasenhuttl, Julie Haworth, Jeffery (Jeff) Hicks, Kristen Lawson, Vance Lewis, Liping Ma, Ravi Narayan, Dawn Owens, Parneet Pahwa, Anastasia V. Shcherbakova, Jeanne Sluder, Nassim Sohaee

**Visiting Assistant Professor:** Lale Guler

**Senior Lecturers:** Arthur M. Agulnek, Semiramis Amirpour, Frank Anderson, Anindita Bardhan, Tiffany A. Bortz, Richard Bowen, Monica E. Brussolo, 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, Michele Lockhart, Joseph Mauriello, Victoria D. McCrady, Edward Meda, Prithi Narasimhan, Madison Pedigo, Matt Polze, James Richards, Debra Richardson, Margaret Smallwood, Steven Solcher, Luell (Lou) Thompson, Amy L. Troutman, Jeremy Vickers, Robert Wright, Kathy Zolton, Hubert Zydorek

**NSM Faculty**

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

**Professors Emeritus:** Hans Bremer, Donald M. Gray

**Clinical Professor:** David Murchison

**Associate Professors:** Gail A. M. Breen, John G. Burr, Jeff L. Dejong, Ernest M. Hannig, Tae Hoon Kim, Dennis L. Miller, Zhenyu Xuan

**Assistant Professors:** Zachary Campbell, Nikki Delk, Heng Du, Jung-Whan (Jay) Kim, Faruck Morcos, Kelli Palmer, Duane D. Winkler, Hyuntae Yoo

**Research Assistant Professors:** Monique Duncan, Lan Guo, Li Liu

**Senior Lecturers:** Irina Borovkov, Mehmet Candas, Brenna Hill, Wen-Ju Lin, Robert C. Marsh, Jing Pan, Elizabeth Pickett, Ruben D. Ramirez, Scott A. Rippel, Ilya Sapozhnikov, Uma Srikanth, Michelle Wilson, Wen-Ho Yu

I. Core Curriculum Requirements: 42 semester credit hours

**Communication:** 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric

Mathematics: 3 semester credit hours
MATH 2417 Calculus I 4, 5

Life and Physical Sciences: 6 semester credit hours
CHEM 1311 General Chemistry I 4
CHEM 1312 General 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
ECON 2301 Principles of Macroeconomics 4, 6

Component Area Option: 6 semester credit hours
MATH 2419 Calculus II 4, 5
ECON 2302 Principles of Microeconomics 4, 6

II. Major Requirements: 97 semester credit hours

Business Major Preparatory Courses: 15 semester credit hours beyond Core Curriculum
ACCT 2301 Introductory Financial Accounting 6
ACCT 2302 Introductory Management Accounting 6
BLAW 2301  Business and Public Law  
ECON 2301  Principles of Macroeconomics  
ECON 2302  Principles of Microeconomics  
OPRE 3333  Quantitative Business Analysis  
  or MATH 2333  Matrices, Vectors, and Their Application  
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  

Business Core Courses: 29 semester credit hours

BA 1100  Business Basics and HMGТ 3100  Professional Development  
  or HMGТ 3200  Introduction to Business Professional Development and Business Communication  
BCOM 3310  Business Communication  
BCOM 4350  Advanced Business Communication  
BPS 4305  Strategic Management  
FIN 3320  Business Finance  
IMS 3310  International Business  
ITSS 3300  Information Technology for Business  
OPRE 3310  Operations Management  
OBHR 3310  Organizational Behavior  
MKT 3300  Principles of Marketing  

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

CHEM 1111  General Chemistry Laboratory I  
CHEM 1112  General Chemistry Laboratory II  
CHEM 1311  General Chemistry  
CHEM 1312  General Chemistry  
CHEM 2123  Introductory Organic Chemistry Laboratory I  
CHEM 2125  Introductory Organic Chemistry Laboratory II  
CHEM 2323  Introductory Organic Chemistry  

**CHEM 2325** Introductory Organic Chemistry II

**MATH 2417** Calculus I\(^4\), \(^5\)

**MATH 2419** Calculus II\(^4\), \(^5\)

**PHYS 2325** Mechanics

**PHYS 2125** Physics Laboratory I

**PHYS 2326** Electromagnetism and Waves

**PHYS 2126** Physics Laboratory II

**Biology Core Courses: 33 semester credit hours**

**BIOL 2111** Introduction to Modern Biology Workshop I\(^6\)

**BIOL 2112** Introduction to Modern Biology Workshop II\(^6\)

**BIOL 2281** Introductory Biology Laboratory\(^6\)

**BIOL 2311** Introduction to Modern Biology I\(^6\)

**BIOL 2312** Introduction to Modern Biology II\(^6\)

**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

**BIOL 3362** Biochemistry II

or **BIOL 3335** Microbial Physiology

**BIOL 3380** Biochemistry Laboratory

**BIOL 4461** Biophysical Chemistry

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**III. Elective Requirements: 15 semester credit hours**

A zero semester credit hour practicum experience is required.

**HMGT 4090** Healthcare Management Internship

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

**Healthcare Management Core Courses: 12 semester credit hours**
**HMGT 3301** Introduction to Healthcare Management

**HMGT 3311** Healthcare Accounting

**HMGT 4321** Introduction to Healthcare Information Systems

**HMGT 3310** Healthcare Regulatory Environment

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

7. Students may substitute MATH 2418 or CS 2305.

8. JSOM freshmen are required to take BA 1100 and HMGT 3100. Transfer students and students new to JSOM are required to take HMGT 3200.

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

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