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, Ernan 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, Jieying 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, Lale Guler

Visiting Assistant Professor: Lale Guler


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 Sapochnikov, 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\(^6\)

**ECON 2301** Principles of Macroeconomics\(^4, 6\)
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 I

CHEM 1312 General 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 2417 Calculus I
MATH 2419  Calculus II

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

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

BIOL 3362  Biochemistry II

or BIOL 3335  Microbial Physiology

BIOL 3380  Biochemistry Laboratory

BIOL 4461  Biophysical Chemistry

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
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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