Degree Requirements (154 semester credit hours)\(^1\) \(^2\)

UT Dallas 2017 Undergraduate Catalog

Naveen Jindal School of Management

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

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

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, Jiying 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 Alimirzai, 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, jdb101000.jpg140630

**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 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

Life and Physical Sciences: 6 semester credit hours

- CHEM 1311 General Chemistry I
- CHEM 1312 General Chemistry II

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**


**Social and Behavioral Sciences: 3 semester credit hours**


**Component Area Option: 6 semester credit hours**


II. Major Requirements: 97 semester credit hours

**Business Major Preparatory Courses: 15 semester credit hours beyond Core Curriculum**


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

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
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.