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 (151-152 semester credit hours)

JSOM Faculty


Professor Emeritus: Dale Osborne


Associate Professors: Mehmet Ayvaci, Nina Baranchuk, Norris Bruce, Jianqing Chen, Zhonglan Dai, Rebecca Files, Xianjun Geng, J. Richard Harrison, Dorothée Honhon, 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, Valery Polkovnichenko, Cuili Qian, 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, Yibin Zhou

Clinical Associate Professors: Shawn Alborz, Steven Guengerich, Lale Guler, Dawn Owens, David Parks, Carolyn Reichert, Avanti P. Sethi, Kelly Slaughter, Jeanne Sluder, James Szot, McClain Watson

Assistant Professors: Qi (George) Chen, Khai Chiong, Emily Choi, Bernhard Ganglmair, Nathan Goldman, Ying Huang, Sora Jun, Sheen Levine, Meng Li, Xiaolin Li, Maria Loumioti, Jean-Marie Meier, Radha Mookerjee, Anyan Qi, Alejandro Rivera Mesias, Alessio Saretto, Simon Siegenthaler, Serdar
Simsek, Shaojie Tang, Christian Von-Drathen, Shouqiang Wang, Malcolm Wardlaw, Junfeng Wu, Steven Xiao, Shengqi Ye, Nir Yehuda, Zhe (James) Zhang, Xiaofei Zhao

**Clinical Assistant Professors:** Athena Alimirzaei, Christina (Krysta) Betanzos, Moran Blueshtein, Judd Bradbury, 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

**Senior Lecturers:** Semiramis Amirpour, Frank Anderson, Vivek Arora, Tiffany A. Bortz, Richard Bowen, Monica E. Brussolo, Juliann Chapman, 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, Joseph Mauriello, Victoria D. McCrady, Edward Meda, Robert (Stephen) Molina, Prithi Narasimhan, Mohammad Naseri Taheri, Madison Pedigo, Matt Polze, James Richards, Debra Richardson, Anindita Roy Bardhan, Kashif Saeed, Margaret Smallwood, Steven Solcher, Luell (Lou) Thompson, Amy L. Troutman, 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

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

**Clinical Professor:** David Murchison

**Associate Professors:** Gail A. M. Breen, John G. Burr, Jeff L. DeJong, Heng Du, Ernest M. Hannig, Tae Hoon Kim, Dennis L. Miller, Kelli Palmer, Duane D. Winkler, Zhenyu Xuan

**Assistant Professors:** Zachary Campbell, Nikki Delk, Jung-whan (Jay) Kim, Faruck Morcos, Hyuntae Yoo

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

**Senior Lecturers:** Irina Borovkov, Mehmet Candas, Brenna Hill, Wen-Ju Lin, Meenakshi Maitra, 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 1315** Public Speaking

  or **COMM 1311** Survey of Oral and Technology-based Communication

- **RHET 1302** Rhetoric

**Mathematics: 3 semester credit hours**

- **MATH 2417** Calculus I

  or **MATH 2413** Differential Calculus

  or **MATH 2411** Differential Calculus
Life and Physical Sciences: 6 semester credit hours

- CHEM 1311 General Chemistry I
- CHEM 1315 Honors Freshman Chemistry I
- CHEM 1312 General Chemistry II
- CHEM 1316 Honors Freshman 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

- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

Choose one course from 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

Component Area Option: 6 semester credit hours

Choose two courses from the following:

- MATH 2419 Calculus II
- 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

II. Major Requirements: 91-92 semester credit hours

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 5
or **CHEM 1315** Honors Freshman Chemistry 5

**CHEM 1312** General Chemistry II 5
or **CHEM 1316** Honors Freshman Chemistry II 5

**CHEM 2123** Introductory Organic Chemistry Laboratory I 4
**CHEM 2125** Introductory Organic Chemistry Laboratory II 4

**CHEM 2323** Introductory Organic Chemistry I 4
**CHEM 2325** Introductory Organic Chemistry II 4

**MATH 2417** Calculus I 5, 6
or **MATH 2413** Differential Calculus 5, 6, 7

**MATH 2419** Calculus II 5, 6
or **MATH 2414** Integral Calculus 5, 6, 7

**PHYS 2325** Mechanics 5 and **PHYS 2125** Physics Laboratory I
or **PHYS 2421** Honors Physics I - Mechanics and Heat 5, 9

**PHYS 2326** Electromagnetism and Waves 5
or **PHYS 2422** Honors Physics II - Electromagnetism and Waves 5

**PHYS 2126** Physics Laboratory II

Biology Core Courses: 33 semester credit hours

**BIOL 2111** Introduction to Modern Biology Workshop I 4
**BIOL 2112** Introduction to Modern Biology Workshop II 4

**BIOL 2281** Introductory Biology Laboratory 4

**BIOL 2311** Introduction to Modern Biology I 4
**BIOL 2312** Introduction to Modern Biology II 4
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

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
BA 1310 Making Choices in Free Market Systems
  or ECON 2302 Principles of Microeconomics
BA 1320 Business in a Global World
  or ECON 2301 Principles of Macroeconomics
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: 26 semester credit hours

BA 1100 Business Basics and HMGТ 3100 Professional Development
  or HMGТ 3200 Introduction to Business and Professional Development
BCOM 3310 Business Communication
BCOM 4350 Advanced Business Communication
FIN 3320 Business Finance
IMS 3310 International Business
ITSS 3300 Information Technology for Business
OPRE 3310 Operations Management
OBHR 3330 Introduction to Human Resource Management
or OBHR 3310 Organizational Behavior
MKT 3300 Principles of Marketing

III. Elective Requirements: 18 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

Healthcare Management Core Courses: 15 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
HMGT 4380 Capstone in 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 152-153 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 substitute MATH 2413 and MATH 2414 by taking MATH 2417 and MATH 2419.

8. Certain courses listed are prerequisites for major core (e.g., BA 1320 or ECON 2301 for IMS 3310), major concentration, or major related courses. Choose accordingly.

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

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

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

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