Naveen Jindal School of Management

Healthcare Management and Biology (Double Major) (BS)

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

**Degree Requirements** *(150 semester credit hours)*

**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, Ningshong Li, Livia Markoczy, Amit Mehr, 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 Aylaci, 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, Judd Bradbury, John Gamino, 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 Zydek

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 2413 Differential Calculus
Life and Physical Sciences: 6 semester credit hours

**CHEM 1311** General Chemistry II

**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

**GOVT 2305** American National Government

**GOVT 2306** State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

**ECON 2301** Principles of Macroeconomics

Component Area Option: 6 semester credit hours

**MATH 2414** Integral Calculus

**ECON 2302** Principles of Microeconomics

II. Major Requirements: 93 semester credit hours

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

**ACCT 2301** Introductory Financial Accounting

**ACCT 2302** Introductory Management Accounting

**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 **HMGT 3100** Professional Development
- or **HMGT 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
- **OBHR 3310** Organizational Behavior
- **OPRE 3310** Operations Management
- **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 2413** Differential Calculus
- **MATH 2414** Integral Calculus
- **PHYS 2325** Mechanics and **PHYS 2125** Physics Laboratory I
  - or **PHYS 1301** College Physics I and **PHYS 2125** Physics Laboratory I
- **PHYS 2326** Electromagnetism and Waves and **PHYS 2126** Physics Laboratory II
  - or **PHYS 1302** College Physics II and **PHYS 2126** Physics Laboratory II
Biology Core Courses: 29 semester credit hours

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>BIOL 2111</td>
<td>Introduction to Modern Biology Workshop I</td>
</tr>
<tr>
<td>BIOL 2112</td>
<td>Introduction to Modern Biology Workshop II</td>
</tr>
<tr>
<td>BIOL 2281</td>
<td>Introductory Biology Laboratory</td>
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<tr>
<td>BIOL 2311</td>
<td>Introduction to Modern Biology I</td>
</tr>
<tr>
<td>BIOL 2312</td>
<td>Introduction to Modern Biology II</td>
</tr>
<tr>
<td>BIOL 3101</td>
<td>Classical and Molecular Genetics Workshop</td>
</tr>
<tr>
<td>BIOL 3102</td>
<td>Eukaryotic Molecular and Cell Biology Workshop</td>
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<tr>
<td>BIOL 3161</td>
<td>Biochemistry Workshop I</td>
</tr>
<tr>
<td>BIOL 3162</td>
<td>Biochemistry Workshop II</td>
</tr>
<tr>
<td>BIOL 3301</td>
<td>Classical and Molecular Genetics</td>
</tr>
<tr>
<td>BIOL 3302</td>
<td>Eukaryotic Molecular and Cell Biology</td>
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<tr>
<td>BIOL 3361</td>
<td>Biochemistry I</td>
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<tr>
<td>BIOL 3362</td>
<td>Biochemistry II</td>
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<tr>
<td>or BIOL 3335</td>
<td>Microbial Physiology</td>
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<tr>
<td>BIOL 3380</td>
<td>Biochemistry Laboratory</td>
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III. Elective Requirements: 15 semester credit hours

Guided Electives: 15 semester credit hours

A zero semester credit hour practicum experience is required.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>HMGT 4090</td>
<td>Healthcare Management Internship</td>
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The following courses fulfill the remaining Guided Elective semester credit hours:

Healthcare Management Core Courses: 12 semester credit hours

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>HMGT 3301</td>
<td>Introduction to Healthcare Management</td>
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<tr>
<td>HMGT 3311</td>
<td>Healthcare Accounting</td>
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<tr>
<td>HMGT 4321</td>
<td>Introduction to Healthcare Information Systems</td>
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<tr>
<td>HMGT 3310</td>
<td>Healthcare Regulatory Environment</td>
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Biology (3 semester credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>BIOL 4380</td>
<td>Cell and Molecular Biology Laboratory</td>
</tr>
</tbody>
</table>
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 151 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. Students may substitute MATH 2413 and MATH 2414 by taking MATH 2417 and MATH 2419.

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

8. Students may substitute MATH 2418 or CS 2305.

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

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

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