Naveen Jindal School of Management

Healthcare Management and Biology (Double Major) (BS)

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

Degree Requirements (147-148 semester credit hours)\(^1, 2\)

JSOM Faculty


**Professor Emeritus:** Dale Osborne

**Clinical Professors:** John Barden, Britt Berrett, Abhijit Biswas, Ranavir Bose, Pamela Foster Brady, Shawn Carraher, Larry Chasteen, Paul Convery, David Cordell, Kutsal Dogan, Howard Dover, Forney Fleming III, John Gamino, Randall S. Guttery, Charles Hazzard, William Hefley, Robert Hicks, Gerald (Jerry) Hoag, Marilyn Kaplan, Ching-Chung Kuo, Sonia Leach, Peter Lewin, Jeffrey Manzi, John F. McCracken, Dennis McCuistion, Diane S. McNulty, Divakar Rajamani, Daniel Rajaratnam, David Ritchey, Rajiv Shah, Mark Thouin, Keith Thurgood, Jeff Weekley, Habte Woldu, Fang Wu, Laurie L. Ziegler

**Associate Professors:** 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, Jieying Zhang, Yuan Zhang, Feng Zhao, Yibin Zhou

**Clinical Associate Professors:** Steven Guengerich, Lale Guler, David Parks, Carolyn Reichert, Avanti P. Sethi, Kelly Slaughter, Jeanne Sluder, James Szot, McClain Watson
Assistant Professors: Mehmet Ayvaci, 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: Shawn Alborz, 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, Dawn Owens, Parneet Pahwa, Jason Parker, Drew Peabody, Nassim Sohaee


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, Kelli Palmer, Zhenyu Xuan

Assistant Professors: Zachary Campbell, Nikki Delk, Heng Du, Jung-whan (Jay) Kim, Faruck Morcos, Duane D. Winkler, 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 2413 Differential Calculus

Life and Physical Sciences: 6 semester credit hours
CHEM 1311 General Chemistry
or CHEM 1315 Honors Freshman Chemistry
CHEM 1312 General Chemistry II
or 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 (Awaiting Core Approval from THECB)
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 2414 Integral Calculus
II. Major Requirements: 87-88 semester credit hours

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 (Awaiting Core Approval from THECB)
  - 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 **HMGT 3100** Professional Development
  - or **HMGT 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
- **OBHR 3330** Introduction to Human Resource Management
  - or **OBHR 3310** Organizational Behavior
- **OPRE 3310** Operations Management
- **MKT 3300** Principles of Marketing

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 I
- or **CHEM 1315** Honors Freshman Chemistry I

**CHEM 1312** General Chemistry II
- or **CHEM 1316** Honors Freshman 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 2421** Honors Physics I - Mechanics and Heat
- 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 2422** Honors Physics II - Electromagnetism and Waves
- or **PHYS 1302** College Physics II and **PHYS 2126** Physics Laboratory II

Biology Core Courses: 29 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

III. Elective Requirements: 18 semester credit hours

Guided Electives: 18 semester credit hours

A zero semester credit hour practicum experience is required.
  HMGТ 4090 Healthcare Management Internship
A zero semester credit hour community engagement experience is required.
  BA 4095 Social Sector Engagement and Community Outreach Practicum

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

Healthcare Management Core Courses: 15 semester credit hours
  HMGТ 3301 Introduction to Healthcare Management
  HMGТ 3311 Healthcare Accounting
  HMGТ 4321 Introduction to Healthcare Information Systems
  HMGТ 3310 Healthcare Regulatory Environment
  HMGТ 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 148-149 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. 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. Students who complete PHYS 2421 do not need to complete PHYS 2125.

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

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