Naveen Jindal School of Management

Healthcare Management and Biology (Double Major) (BS)

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

Degree Requirements (149 semester credit hours)\(^1\),\(^2\)

JSOM Faculty


Professor Emeritus: Dale Osborne


Clinical Associate Professors: Sonia Leach, Carolyn Reichert, Kelly Slaughter, Mark Thouin, John McClain Watson

Assistant Professors: Mehmet Ayvaci, Emily Choi, Rebecca Files, Bernhard Ganglmair, Dorothée Honhon, Elisabeth Honka, Kyle Hyndman, Atanu Lahiri, Sheen Levine, Bin Li, Jun Li, Meng Li, Ningzhong Li, Virginie Lopez-Kidwell, Arzu Ozoguz, Anyan Qi, Alessio Saretto, Harpreet Singh, Gonca P. Soysal, Upender Subramanian, Shaojie Tang, Christian Von-Drathen, Malcolm Wardlaw,
Han (Victor) Xia, Shengqi Ye, Nir Yehuda, Jieying Zhang, Xiaofei Zhao

**Clinical Assistant Professors**: Hans-Joachim Adler, Shawn Alborz, Athena Alimirzaei, Moran Bluestein, John Gamino, Ayfer Gurun, Vance Lewis, Liping Ma, Dawn Owens, Anastasia V. Shcherbakova

**Senior Lecturers**: Arthur M. Agulnek, Semiramis Amirpour, Frank Anderson, Anindita Bardhan, Ronald Blair, Daniel Bochsler, Tiffany A. Bortz, Richard Bowen, Judd Bradbury, Monica E. Brussolo, George DeCourcy, Eugene (Gene) Deluke, Alexander Edsel, Amal El-Ashmawi, Carol Flannery, Mary Beth Goodrich, Maria Hasenhuttl, Julie Haworth, Thomas (Tom) Henderson, Jennifer G. Johnson, Lynn Carl Jones, Jackie Kimzey, Kristen Lawson, Chris Linsteadt, Diane S. McNulty, Madison Pedigo, Jared Pickens, Matt Polze, James Richards, Mark Salamasick, Avanti P. Sethi, Jeanne Sluder, Steven Solcher, Luell (Lou) Thompson, Amy L. Troutman, Robert Wright, Kathy Zolton

**Visiting Faculty**: Kyle Edgington

**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, Claud S. Rupert

**Associate Professors**: Gail A. M. Breen, John G. Burr, Jeff L. Delong, Ernest M. Hannig, Tae Hoon Kim, Dennis L. Miller

**Assistant Professors**: Nikki Delk, Heng Du, Jung-whan (Jay) Kim, Kelli Palmer, Duane D. Winkler, Zhenyu Xuan, Hyuntae Yoo

**Research Assistant Professors**: Monique Duncan, Lan Guo

**Senior Lecturers**: Irina Borovkov, Mehmet Candas, Vincent P. Cirillo, Brenna Hill, Wen-Ju Lin, Robert C. Marsh, David Murchison, Jing Pan, Elizabeth Pickett, Ruben D. Ramirez, Scott A. Rippel, Elizabeth L. Rugg, 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 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\(^4, 7\)

Component Area Option: 6 semester credit hours
- MATH 2414 Integral Calculus\(^4, 5, 6\)
- ECON 2302 Principles of Microeconomics\(^4, 7\)

II. Major Requirements: 92 semester credit hours

Business Major Preparatory Courses: 16 semester credit hours beyond Core Curriculum
- ACCT 2301 Introductory Financial Accounting\(^7\)
- ACCT 2302 Introductory Management Accounting\(^7\)
- HMG 3100 Professional Development
- BLAW 2301 Business and Public Law\(^7\)
- ECON 2301 Principles of Macroeconomics\(^4, 7\)
- ECON 2302 Principles of Microeconomics\(^4, 7\)
- OPRE 3333 Quantitative Business Analysis\(^7\)
  or MATH 2333 Matrices, Vectors, and Their Application\(^7, 8\)
STAT 3360 Probability and Statistics for Management and Economics
or STAT 2332 Introductory Statistics for Life Sciences
or OPRE 3360 Managerial Methods in Decision Making Under Uncertainty

Business Core Courses: 27 semester credit hours

BCOM 3310 Business Communication
BCOM 4350 Advanced Business Communication
FIN 3320 Business Finance
ITSS 3300 Information Technology for Business
OPRE 3310 Operations Management
OBHR 3310 Organizational Behavior
MKT 3300 Principles of Marketing
BPS 4305 Strategic Management
IMS 3310 International Business

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

BA 1100 Business Basics or NATS 1101 Natural Sciences and Mathematics Freshman Seminar
UNIV 1010  Freshman Seminar

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: 15 semester credit hours

Guided Electives: 15 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 approved upper-level biology course.

Each student is expected to complete a minimum of 160 hours of business-related work to fulfill the JSOM professional practicum requirement.
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 150 semester credit hours if students are required to take BA 1100 or NATS 1100.

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.

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