

# 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 (153 semester credit hours)<sup>1, 2</sup>

#### JSOM Faculty

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**Professors:** Ashiq Ali, Indranil R. Bardhan, Alain Bensoussan, Gary Bolton, Metin Çakanyildirim, R. Chandrasekaran, Daniel A. Cohen, William M. Cready, Milind Dawande, Theodore E. Day, Gregory G. Dess, David L. Ford Jr., Ernan E. Haruvy, Varghese S. Jacob, Ganesh Janakiraman, Elena Katok, Dmitri Kuksov, Stanley Liebowitz, Zhiang (John) Lin, Sumit K. Majumdar, Vijay S. Mookerjee, B. P. S. Murthi, Shun-Chen Niu, Özalp Özer, Mike W. Peng, Hasan Pirkul, Suresh Radhakrishnan, Srinivasan Raghunathan, Ram C. Rao, Brian Ratchford, Michael J. Rebello, Sumit Sarkar, Suresh P. Sethi, Kathryn E. Stecke, Wing Kwong (Eric) Tsang, John J. Wiorkowski, Harold Zhang

**Professor Emeritus:** Dale Osborne

**Clinical Professors:** John Barden, Britt Berrett, Abhijit Biswas, Shawn Carraher, Larry Chasteen, David Cordell, Tefvik Dalgic, Howard Dover, Greg Durham, Forney Fleming III, Randall S. Guttery, Charles Hazzard, Marilyn Kaplan, Peter Lewin, Dennis McCuistion, Radha Mookerjee, Joseph Picken, Divakar Rajamani, Kannan Ramanathan, Arthur Selender, Rajiv Shah, Kenneth Smith, Habte Woldu, Fang Wu, Laurie L. Ziegler

**Associate Professors:** Nina Baranchuk, Norris Bruce, Huseyin Cavusoglu, Jianqing Chen, Zhonglan Dai, Xianjun Geng, Umit G. Gurun, J. Richard Harrison, Surya N. Janakiraman, Robert L. Kieschnick Jr., Nanda Kumar, Seung-Hyun Lee, Livia Markóczy, Syam Menon, Toyah Miller, Alp Muharremoglu, Ramachandran (Ram) Natarajan, Valery Polkovnichenko, Ashutosh Prasad, Orlando C. Richard, Young U. Ryu, Gil Sadka, Jane Salk, David J. Springate, Kelsey D. Wei, Jun Xia, Ying Xie, Yexiao Xu, Alejandro Zentner, Yuan Zhang, Feng Zhao, Zhiqiang (Eric) Zheng, Yibin Zhou

**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

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**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. DeJong, 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 Sapozhnikov, Uma Srikanth, Michelle Wilson, Wen-Ho Yu

**Affiliated Faculty:** Stephen D. Levene, Jonathan E. Ploski

I. Core Curriculum Requirements: 42 semester credit hours<sup>3</sup>

**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<sub>4, 5</sub>

**Life and Physical Sciences: 6 semester credit hours**

[CHEM 1311](#) General Chemistry I<sub>4</sub>

[CHEM 1312](#) General Chemistry II<sub>4</sub>

**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<sub>4, 6</sub>

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

[MATH 2419](#) Calculus II<sub>4, 5</sub>

[ECON 2302](#) Principles of Microeconomics<sub>4, 6</sub>

II. Major Requirements: 96 semester credit hours

**Business Major Preparatory Courses: 16 semester credit hours beyond Core Curriculum**

[ACCT 2301](#) Introductory Financial Accounting<sup>6</sup>

[ACCT 2302](#) Introductory Management Accounting<sup>6</sup>

[HMGT 3100](#) Professional Development

[BLAW 2301](#) Business and Public Law<sup>6</sup>

[ECON 2301](#) Principles of Macroeconomics<sup>4, 6</sup>

[ECON 2302](#) Principles of Microeconomics<sup>4, 6</sup>

[OPRE 3333](#) Quantitative Business Analysis<sup>6</sup>

or [MATH 2333](#) Matrices, Vectors, and Their Application<sup>6, 7</sup>

[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: 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<sub>4</sub>

[CHEM 1312](#) General Chemistry II<sub>4</sub>

[CHEM 2123](#) Introductory Organic Chemistry Laboratory I<sub>6</sub>

[CHEM 2125](#) Introductory Organic Chemistry Laboratory II<sub>6</sub>

[CHEM 2323](#) Introductory Organic Chemistry I<sub>6</sub>

[CHEM 2325](#) Introductory Organic Chemistry II<sub>6</sub>

[MATH 2417](#) Calculus I<sub>4, 5</sub>

[MATH 2419](#) Calculus II<sub>4, 5</sub>

[PHYS 2325](#) Mechanics

[PHYS 2125](#) Physics Laboratory I

[PHYS 2326](#) Electromagnetism and Waves

[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: 33 semester credit hours**

[BIOL 2111](#) Introduction to Modern Biology Workshop I<sub>6</sub>

[BIOL 2112](#) Introduction to Modern Biology Workshop II<sub>6</sub>

[BIOL 2281](#) Introductory Biology Laboratory<sub>6</sub>

[BIOL 2311](#) Introduction to Modern Biology I<sub>6</sub>

[BIOL 2312](#) Introduction to Modern Biology II<sub>6</sub>

[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

III. Elective Requirements: 15 semester credit hours

**Healthcare Management Core Courses: 12 semester credit hours**

[HMG 3301](#) Introduction to Healthcare Management

[HMG 3311](#) Healthcare Accounting

[HMG 4321](#) Introduction to Healthcare Information Systems

[HMG 3310](#) Healthcare Regulatory Environment

**Biology (3 semester credit hours):**

[BIOL 4380](#) Cell and Molecular Biology Laboratory<sup>8</sup>

[BIOL 3V96](#) Undergraduate Research in Molecular and Cell Biology

[BIOL 4391](#) Senior Research in Molecular and Cell Biology: Advanced Writing

[BIOL 4399](#) Senior Honors Research in Molecular and Cell Biology: Thesis/Advanced Writing

Each student is expected to complete a minimum of 160 hours of business-related work to fulfill the JSOM professional practicum requirement.

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 154 semester credit hours if students are required to take BA 1100 or 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. Requires permission of the Biology Undergraduate Advisor to ensure training in recombinant DNA analysis.

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