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** (154 semester credit hours)\(^1\)\(^2\)

JSOM Faculty


**Professor Emeritus:** Dale Osborne

**Clinical Professors:** John Barden, Britt Berrett, Abhijit Biswas, Pamela Foster Brady, Shawn Carraher, Paul Convery, David Cordell, Tsvik Dalgic, Michael Deegan, Kutsal Dogan, Howard Dover, Greg Durham, Forney Fleming III, Randall S. Guttery, Charles Hazzard, William Hefley, Robert Hicks, Gerald (Jerry) Hoag, Marilyn Kaplan, Peter Lewin, Jeffrey Manzi, John F. McCracken, Dennis McCuistion, Diane S. McNulty, Radha Mookerjee, Joseph Picken, Divakar Rajamani, Daniel Ritchey, Arthur Selender, Rajiv Shah, Kenneth Smith, Habte Woldu, Fang Wu, Laurie L. Ziegler

**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, Ningzhong Li, Livia Markóczy, Amit Mehra, 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 Ayvaci, 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, 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, jdb101000.jpg140630

Visiting Assistant Professor: Lale Guler


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 Sapozhnikov, 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 2417 Calculus I
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\(^4,\, 6\)

Component Area Option: 6 semester credit hours

- **MATH 2419** Calculus II\(^4,\, 5\)
- **ECON 2302** Principles of Microeconomics\(^4,\, 6\)

II. Major Requirements: 97 semester credit hours

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

- **ACCT 2301** Introductory Financial Accounting\(^6\)
- **ACCT 2302** Introductory Management Accounting\(^6\)
- **BLAW 2301** Business and Public Law\(^8\)
- **ECON 2301** Principles of Macroeconomics\(^4,\, 6\)
- **ECON 2302** Principles of Microeconomics\(^4,\, 6\)
- **OPRE 3333** Quantitative Business Analysis\(^8\)
  - or **MATH 2333** Matrices, Vectors, and Their Application\(^6,\, 7\)
- **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
- **OPRE 3310** Operations Management
- **OBHR 3310** Organizational Behavior
- **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 2417** Calculus I
- **MATH 2419** Calculus II
- **PHYS 2325** Mechanics
- **PHYS 2125** Physics Laboratory I
- **PHYS 2326** Electromagnetism and Waves
- **PHYS 2126** Physics Laboratory II
Biology Core Courses: 33 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  
BIOL 4461 Biophysical Chemistry  

III. Elective Requirements: 15 semester credit hours
A zero semester credit hour practicum experience is required.

HMGT 4090 Healthcare Management Internship

The following courses fulfill the remaining Guided Elective 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 BIOL 3V96 Undergraduate Research in Molecular and Cell Biology
Dr. [Name] is a [field of expertise] who has made significant contributions to the field. His current research focuses on [specific area of research]. Dr. [Name] received his Ph.D. in [related field] from [university] in [year]. Before joining [institute], he worked at [previous institution].

Dr. [Name] is known for his [exemplary attribute], which has been recognized with various awards, including the [award name] in [year]. His expertise in [related field] has led to [significant achievement]. Dr. [Name] is highly regarded for his [additional attribute], which is evident in his [example].

He is a member of several prestigious scientific societies, including the [society name] and [other societies]. Dr. [Name] has published numerous articles in top-tier journals, with [example of publication information].

In addition to his research, Dr. [Name] is committed to [related activity], having [example of involvement]. He is also an [additional role], which he has held at [institute].

Dr. [Name] is currently advising [number of students] doctoral and master's students, mentor[ing] them in their research endeavors. His guidance and support have been instrumental in shaping the careers of many students in [related field].

Dr. [Name] is an inspiration to many, not only for his [exemplary attribute] but also for his [example]. His dedication to [related activity] and his [additional attribute] continue to set a high standard for all aspiring [related field] professionals.