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)¹ ²

JSOM Faculty

NSM Faculty

I. Core Curriculum Requirements: 42 semester credit hours ³

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 ⁴ ⁵

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

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

- [MATH 2419](#) Calculus II
- [ECON 2302](#) Principles of Microeconomics

II. Major Requirements: 96 semester credit hours

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

- [ACCT 2301](#) Introductory Financial Accounting
- [ACCT 2302](#) Introductory Management Accounting
- [HMGT 3100](#) Professional Development
- [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: 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^4
CHEM 1312 General Chemistry II^4
CHEM 2123 Introductory Organic Chemistry Laboratory I^6
CHEM 2125 Introductory Organic Chemistry Laboratory II^6
CHEM 2323 Introductory Organic Chemistry I^6
CHEM 2325 Introductory Organic Chemistry II^6
MATH 2417 Calculus I^4, 5
MATH 2419 Calculus II^4, 5
PHYS 2325 Mechanics

Biology Core Courses: 33 semester credit hours

BIOL 2111 Introduction to Modern Biology Workshop I^6
BIOL 2112 Introduction to Modern Biology Workshop II^6
BIOL 2281 Introductory Biology Laboratory^6
BIOL 2311 Introduction to Modern Biology I^6
BIOL 2312 Introduction to Modern Biology II^6
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

HAMGT 3301  Introduction to Healthcare Management
HAMGT 3311  Healthcare Accounting
HAMGT 4321  Introduction to Healthcare Information Systems
HAMGT 3310  Healthcare Regulatory Environment

Biology (3 semester credit hours):

BIOL 4380  Cell and Molecular Biology Laboratory
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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