UT Dallas 2014 Undergraduate Catalog

School of Natural Sciences and Mathematics

Bachelor of Science in Molecular Biology and Business Administration (Double Major)

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

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\(^4,6\)

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

- **MATH 2419** Calculus II\(^4,5\)
II. Major Requirements: 96 semester credit hours

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
- **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
- **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

Business Major Preparatory Courses: 16 hours beyond Core Curriculum
ACCT 2301  Introductory Financial Accounting
ACCT 2302  Introductory Management Accounting
BA 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  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
MIS 3300  Introduction to Management Information Systems
OPRE 3310  Operations Management
OBHR 3310  Organizational Behavior
MKT 3300  Principles of Marketing
BPS 4305  Strategic Management
IMS 3310  International Business

III. Elective Requirements: 9 semester credit hours

Guided Electives: 9 semester credit hours
Business (6 semester credit hours): To be selected from upper-division JSOM courses. If qualified, the student may select from JSOM graduate courses.

Biology (3 semester credit hours): To be selected from BIOL 4380, BIOL 3V96, BIOL 4391, or BIOL 4399.\(^8\)

All students must complete at least 51 hours of upper-division courses to graduate.

1. Incoming freshmen must complete and pass UNIV 1010 Freshman Seminar 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 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. A required Major course that also fulfills a Core Curriculum requirement. 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.

Updated: 2015-03-26 17:35:43 v1.b6bc88