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**

- **Mathematics: 3 semester credit hours**
  - [MATH 2417](https://catalog.utdallas.edu/2014/undergraduate/programs/nsm/molecular-biology-business-administration) Calculus I\(^4\)\(^5\)

- **Life and Physical Sciences: 6 semester credit hours**
  - [CHEM 1311](https://catalog.utdallas.edu/2014/undergraduate/programs/nsm/molecular-biology-business-administration) General Chemistry I\(^6\)
  - [CHEM 1312](https://catalog.utdallas.edu/2014/undergraduate/programs/nsm/molecular-biology-business-administration) General Chemistry II\(^6\)

- **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**

- **Social and Behavioral Sciences: 3 semester credit hours**
Component Area Option: 6 semester credit hours

**MATH 2419** Calculus II

**ECON 2302** Principles of Microeconomics

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
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.  

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.

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