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 \(^4\), \(^5\)

Life and Physical Sciences: 6 semester credit hours

- CHEM 1311 General Chemistry \(^4\)
- 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: 96 semester credit hour

**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

**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\(^6\)

**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
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
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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