School of Natural Sciences and Mathematics

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

Degree Requirements (143 hours)¹

I. Core Curriculum Requirements: 42 hours²

Communication (6 hours)
   3 hours Communication (RHET 1302)
   3 hours Communication Elective (BCOM 3311)³

Social and Behavioral Sciences (15 hours)
   6 semester credit hours Government (GOVT 2301 and GOVT 2302)
   6 hours American History
   3 hours Social and Behavioral Sciences Elective (ECON 2301)³

Humanities and Fine Arts (6 hours)
   3 hours Fine Arts (ARTS 1301)
   3 hours Humanities (HUMA 1301)

Mathematics and Quantitative Reasoning (6 hours)
   6 hours Calculus (MATH 2413 and MATH 2414)⁴

Science (9 hours)
   9 hours Chemistry (CHEM 1311 and CHEM 1111, CHEM 1312 and CHEM 1112, and CHEM 212 3)³

II. Major Requirements: 89 hours

Biology Major Preparatory Courses (17 hours beyond Core Curriculum)
   CHEM 1111 General Chemistry Laboratory ³
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 2413 Differential Calculus and MATH 2414 Integral Calculus
PHYS 2325 Mechanics and PHYS 2125 Physics Laboratory I
PHYS 2326 Electromagnetism and Waves and PHYS 2126 Physics Laboratory II

Biology Major Core Courses (29 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

Business Administration 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

**MATH 2333** Matrices, Vectors and Their Application

or **OPRE 3333** Quantitative Business Analysis

### Business Administration Core Courses (27 hours)

**BCOM 3311** 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

**STAT 3360** Probability and Statistics for Management and Economics

or **STAT 3332** Statistics for Life Sciences

or **OPRE 3360** Managerial Methods in Decision Making Under Uncertainty

### III. Elective Requirements: 12 hours

**Guided Electives (12 hours)**

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

Biology (3 hours): **BIOL 4380** Cell and Molecular Biology Laboratory or approved upper-division biology course.

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1. Degree is 144 hours if students are required to take NATS 1101.
2. Curriculum Requirements can be fulfilled by other approved courses from accredited institutions of higher education. The courses listed in parentheses are recommended as the most efficient way to satisfy both Core Curriculum and Major requirements at UT Dallas.
3. A required Major course that also fulfills a Core Curriculum requirement. Hours are counted in Core Curriculum.

4. Six hours of Calculus are counted under Mathematics Core, and 2 hours of Calculus are counted as Major Preparatory Courses.

5. Indicates a prerequisite class to be completed before enrolling for upper-division classes.

6. Students may substitute MATH 2413 and MATH 2414 by taking MATH 2417 and MATH 2419.