School of Natural Sciences and Mathematics

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

Degree Requirements (146 semester credit hours)¹,²

I. Core Curriculum Requirements: 42 semester credit hours³

Communication: 6 semester credit hours

   COMM 1311 Survey of Oral and Technology-based Communication
   RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

   MATH 2413 Differential Calculus⁴,⁵,⁶

Life and Physical Sciences: 6 semester credit hours

   CHEM 1311 General Chemistry I⁴
   CHEM 1312 General Chemistry II⁴

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

¹ Additional Liberal Arts and Sciences core requirements may include additional courses as specified by the advisor or department.
² Science and Mathematics core requirements may include additional courses as specified by the advisor or department.
³ Includes required courses in the major.
⁴ May be替代ed by other courses in the same discipline as approved by the advisor or department.
⁵ May be替代ed by other courses in the same discipline as approved by the advisor or department.
⁶ May be替代ed by other courses in the same discipline as approved by the advisor or department.
Social and Behavioral Sciences: 3 semester credit hours

**ECON 2301** Principles of Macroeconomics 4, 7

Component Area Option: 6 semester credit hours

**MATH 2414** Integral Calculus 4, 5, 6

**ECON 2302** Principles of Microeconomics 4, 7

II. Major Requirements: 92 semester credit hours

Biology Major Preparatory Courses: 21 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 7

**CHEM 2125** Introductory Organic Chemistry Laboratory II 7

**CHEM 2323** Introductory Organic Chemistry I 7

**CHEM 2325** Introductory Organic Chemistry II 7

**MATH 2413** Differential Calculus 4, 5, 6

**MATH 2414** Integral Calculus 4, 5, 6

**PHYS 2325** Mechanics and **PHYS 2125** Physics Laboratory I

or **PHYS 1301** College Physics I and **PHYS 2125** Physics Laboratory I

**PHYS 2326** Electromagnetism and Waves and **PHYS 2126** Physics Laboratory II

or **PHYS 1302** College Physics II and **PHYS 2126** Physics Laboratory II

**NATS 1101** Natural Sciences and Mathematics Freshman Seminar

**UNIV 1010** Freshman Seminar

Biology Core Courses: 29 semester credit hours

**BIOL 2111** Introduction to Modern Biology Workshop I 7

**BIOL 2112** Introduction to Modern Biology Workshop II 7

**BIOL 2281** Introductory Biology Laboratory 7

**BIOL 2311** Introduction to Modern Biology I 7
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 Major Preparatory Courses: 16 semester credit 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
OPRE 3333  Quantitative Business Analysis
or MATH 2333  Matrices, Vectors, and Their Application
STAT 3360  Probability and Statistics for Management and Economics
or STAT 2332  Statistics for Life Sciences
or OPRE 3360  Managerial Methods in Decision Making Under Uncertainty

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
III. Elective Requirements: 12 semester credit hours

Guided Electives: 12 semester credit hours

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

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

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

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