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 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 2413 Differential Calculus\(^4\)\(^5\)\(^6\)

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\(^4\)\(^7\)

Component Area Option: 6 semester credit hours

- MATH 2414 Integral Calculus\(^4\)\(^5\)\(^6\)
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
- **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
- **MATH 2414** Integral Calculus
- **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
- **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 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  
MKT 3300 Principles of Marketing  
BPS 4305 Strategic Management  
IMS 3310 International Business  

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.