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

Component Area Option: 6 semester credit hours

**MATH 2414** Integral Calculus

**ECON 2302** Principles of Microeconomics

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
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.

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