School of Natural Sciences and Mathematics

Biology and Business Administration (B.S.)

Faculty

Professor: Lee A. Bulla, Santosh D'Mello, Rockford K. Draper, Juan González, Steven R. Goodman, Donald M. Gray, Stephen D. Levene, Lawrence J. Reitzer, Li Zhang, Stephen Sprio, Michael Q. Zhang

Associate Professor: Gail A.M. Breen, John G. Burr, Jeff L. DeJong, Ernest M. Hannig, Dennis L. Miller

Assistant Professor: Tianbing Xia, Zhenyu Xuan, Hyuntae Yoo

Professor Emeritus: Hans Bremer, Claud S. Rupert


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

Degree Requirements [140-141 hours]

I. Core Curriculum Requirements^{2}: 42 hours

Communication (6 hours)

3 hours Communication (RHET 1302)

3 hours Communication Elective (BCOM 3311)^{3}

Social and Behavioral Sciences (15 hours)

6 hours Government (GOVT 2301 and GOVT 2302)

6 hours American History

3 hours Social and Behavior 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)\textsuperscript{4}

Science (9 hours)
9 hours Chemistry (CHEM 1311/1111, CHEM 1312/1112 and CHEM 2123)

II. Major Requirements: 86 hours

Biology Major Preparatory Courses (15-17 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\textsuperscript{5} Introductory Organic Chemistry Laboratory I
- CHEM 2125\textsuperscript{5} Introductory Organic Chemistry Laboratory II
- CHEM 2323\textsuperscript{5} Introductory Organic Chemistry I
- CHEM 2325\textsuperscript{5} Introductory Organic Chemistry II
- MATH 2413 Differential Calculus and MATH 2414 Integral Calculus\textsuperscript{4, 6}
- PHYS 2325 and PHYS 2125 Mechanics with Laboratory
- PHYS 2326 and PHYS 2126 Electromagnetism and Waves with Laboratory

Biology Major Core Courses (29 hours)

- BIOL 2111\textsuperscript{5} Introduction to Modern Biology Workshop I
- BIOL 2112\textsuperscript{5} Introduction to Modern Biology Workshop II
- BIOL 2281\textsuperscript{5} Introductory Biology Laboratory
- BIOL 2311\textsuperscript{5} Introduction to Modern Biology I
- BIOL 2312\textsuperscript{5} 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 (15 hours beyond Core Curriculum)
ACCT 23015 Introductory Financial Accounting
ACCT 23025 Introductory Management Accounting
BLAW 23015 Business and Public Law
ECON 23015 Principles of Macroeconomics3
ECON 23025 Principles of Microeconomics
MATH 23335 Matrices, Vectors and Their Application
    or OPRE 3333 Quantitative Business Analysis

Business Administration Core Courses (27 hours)
BCOM 3311 Business Communications3
BCOM 4350 Advanced Business Communications
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 Decision Making under Uncertainty
III. Elective Requirements: 12 hours

**Advanced Electives**

All students are required to take at least six hours of advanced electives outside their major field of study. These must be either upper-division classes or lower-division classes that have prerequisites. These may be satisfied with **CHEM 2323** and 2325, counted under Major Preparatory Courses.

**Guided Electives (12 hours)**

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

Biology (3 hours): **BIOL 4380** Cell and Molecular Biology Laboratory must be taken for the Biology elective.

1. Degree is 141 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.

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