School of Natural Sciences and Mathematics

Biology and Business Administration (B.S.)

Faculty

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

**Assistant Professors:** Tianbing Xia, Zhenyu Xuan, Hyuntae Yoo

**Professor Emeritus:** Hans Bremer, Claud S. Rupert

**Senior Lecturers:** Irina Borovkov, Mehmet Candas, Vincent P. Cirillo, Wen-ju Lin, Robert C. Marsh, David Murchison, Elizabeth Pickett, Ruben D. Ramirez, Scott A. Rippel, Ilya Sapochnikov, Wen-Ho Yu

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

*Degree Requirements (140-141 hours)*

I. Core Curriculum Requirements: 42 hours

**Communication (6 hours)**

3 hours Communication (*RHET 1302*).

3 hours Communication Elective (*BCOM 3311*).

**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*).

**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 1311/1111, 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 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\(^4, 6\)
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 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 (15 hours beyond Core Curriculum)
   ACCT 2301  Introductory Financial Accounting
   ACCT 2302  Introductory Management Accounting
   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 Communications
   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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