

Bachelor of Arts with a Major in Biochemistry

2012-2014 Catalog (Expires August 2020)

University Core Curriculum

First-Year Signature Course: UGS 302 or 303 ____

English: RHE 306 ____

Humanities: E 316K ____

American & Texas Government: 6 hrs from approved core list
____ + ____

American History: 6 hrs from approved core list
____ + ____

Social and Behavioral Science: 3 hrs from approved core list ____

Mathematics: 3 hrs from approved core list: ____ [M 408C or M 408N]

Science and Technology Part I: 6 hrs in a single subject from approved core list: ____ + ____ [CH 301 or 301H + CH 302 or 302H]

Science and Technology Part II: 3 hrs from a subject other than the one chosen for Part I from approved core list: ____ [BIO 311C]

Visual & Performing Arts: 3 hrs from approved core list ____

Note that no single course may be used to fulfill two core areas simultaneously. In most cases, students may satisfy both a *core requirement* and a *major requirement* with a single course. Plan II students may have additional options for some core requirements.

Additional General Education Requirements

Two Writing Flags (must include a course that is not used to meet a core requirement and a course that is upper-division): ____ + ____

Writing Flag courses may satisfy other degree requirements.

Foreign Language: 4 semesters in a single language or attainment of 4th semester foreign language proficiency: ____ + ____ + ____ + ____

Social Science: 3 hrs from a single field of study different than the course used for the Social & Behavior Science core requirement, chosen from list maintained by College of Liberal Arts: ____

Cultural Expression, Human Experience, and Thought: 3 hrs chosen from a list maintained by the College of Liberal Arts: ____

Natural Sciences: 6 additional hours will be satisfied by biology, chemistry, and physics.

Mathematics and Physics With Grades of C- or Better

Entry-level Mathematics: M 408N ____ + 408S ____ + 408M ____ OR M 408C ____ + 408D ____

Physics, 8 hours: chosen from one of the following sequences (lecture and accompanying lab):

- 1) PHY 317K ____ + 117M ____ AND 317L ____ + 117N ____ OR
- 2) PHY 301 ____ + 101L ____ AND 316 ____ + 116L ____ OR
- 3) PHY 303K ____ + 103M ____ AND 303L ____ + 103N ____

Chemistry with Grades of C- or Better

Entry-level Chemistry: CH 301 or 301H ____ + 302 or 302H ____

Introductory Laboratory: CH 317 or 204 ____

Organic Chemistry (8 hours from ONE of the following sequences):

CH 328M ____ + 128K ____ + 328N ____ + 128L ____ OR CH 320M ____ + 320N ____ + CH 220C ____

Biochemistry: CH 339K ____ + 339L ____ + 369L + ____ + 370 ____

Physical Chemistry: CH 353 or 353M ____

Analytical Chemistry: CH 455 ____

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Biology with Grades of C- or Better

Biology: BIO 311C ___ + 311D ___ + 325 ___ **OR** 315H ___ + 325H ___

Physiology: 3 hours chosen from: BIO 328, 339, 345, 361T, 365R or 371M, and 365S _____

3 Additional hours chosen from: Physiology list or BIO 320, 226L, 326M or 326R, 330, 331L, 335, 344, 346, 347, 349, 360K, 361, and 365W: _____

Physiology Courses

BIO 328, Introductory Plant Physiology
BIO 339, Metabolism & Biochemistry of Microorganisms
BIO 345, Cell Physiology
BIO 361T, Comparative Animal Physiology
BIO 365R, Vertebrate Neurobiology
or BIO 371M, Neuronal Basis of Brain and Behavior
BIO 365S, Vertebrate Systems Physiology

Additional Biology:

BIO 320, Cell Biology
BIO 226L, General Microbiology Laboratory
BIO 326M, Intro Medical Microbiology & Immunology
or BIO 326R, General Microbiology
BIO 330, Animal Virology
BIO 331L, Laboratory Studies in Molecular Biology
BIO 335, Introduction to Biochemical Engineering
BIO 344, Molecular Biology
BIO 346, Human Biology
BIO 347, Biology and Genetics of Immune Disorders
BIO 349, Developmental Biology
BIO 360K, Immunology
BIO 361, Human Infectious Diseases
BIO 365W, Neurobiology of Addiction

Enough Additional Elective Hours to Reach a Total of 120 Hours (including 36 Upper-division Hours)

Minimum Grade Point Average Requirements

2.0 grade point average in all mathematics and science courses required by degree *: _____

2.0 grade point average in all courses taken at the University of Texas at Austin: _____

* Required mathematics and science courses may include: ACF, AST, BIO, CH, CS, EVS, GEO, HDF, HE, M, NSC, NEU, NTR, PHY, SSC, TXA, and UTS-Natural Sciences.

Total Hours and Residency Requirements

120 semester hours: _____

60 hours in residence: _____

36 upper-division hours: _____

21 upper-division hours in residence: _____

24 of the last 30 hours in residence: _____

18 hours of the major, including 6 upper-division, in residence: _____

No more than 16 hours of electives may be taken Pass/Fail. No more than 42 hours in a single field of study may be counted toward the degree. No more than 3 three-hour courses in Air Force Science, Military Science, and Naval Science may be counted toward the degree. The following courses will not count toward this degree: some Elements of Computing courses, M 301, KIN 119, or PED one-hour activity courses. Please check course descriptions of lower-division science courses not required for majors in the same field of study to see if they can or cannot count toward your degree. Students may earn only one BA degree, though they may earn multiple majors. Students completing an additional degree must complete 24 hours in addition to those counted toward the bachelor's degree that requires the higher number of credit hours.

Chemistry/Biochemistry Undergraduate Advising Center

The Chemistry/Biochemistry Undergraduate Advising Office is located in Welch Hall (WEL) Room 2.216. You can expect to receive the following assistance: information about degree requirements, academic policies and procedures; assessment of your academic progress; advice about course selection; and assistance with registration problems, when appropriate.

Student Responsibility

While University faculty and staff members give students academic advice and assistance, each student is expected to take responsibility for his or her education and personal development through reading and understanding the degree requirements and policies given in the *Undergraduate Catalog* and in the *General Information* catalog.

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