

Bachelor of Science in Biochemistry; Option I: Biochemistry

2010-2012 Catalog (Expires August 2018)

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

Substantial Writing Components and/or Writing Flags (including a course that is not used to meet a core requirement and a course that is upper-division): ____ + ____

Substantial Writing Components and Writing Flags may satisfy other specific degree requirements.

Foreign Language, Option A, B, or C: ____ + ____

A) Two semesters in a single language or attainment of second-semester proficiency in one language:

B) First semester-level proficiency in a foreign language and a three-hour course in the culture of the same language:

C) Two three-hour culture courses chosen from one foreign culture category from and approved list available in the CNS Dean's office and the college advising centers.

Mathematics and Physics with Grades of C- or Better

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

Mathematics or Computer Science: 3 upper-division hours ____

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 ____

Natural Sciences, Engineering, and Geology with grades of C- or Better

9 hrs that count toward major requirements (excluding CH), from: College of Natural Sciences; Cockrell School of Engineering; and Jackson School of Geosciences. Elements of Computing courses may also be counted. No more than 6 hours of lab or field research may be counted.

____ + ____ + ____

Chemistry with Grades of C- or Better (42 Hours Minimum)

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 318M ____ + 118K ____ + 318N ____ + 118L ____ OR CH 310M ____ + 310N ____ + CH 210C ____

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

Physical Chemistry: CH 353M ____

Analytical Chemistry: CH 455 ____

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Six hours of upper-division Chemistry (including 3 hours in lab marked with *) with grades of C- or better, chosen from

- | | |
|---|--|
| *CH 431 Inorganic Chemistry | *CH 341 Special Topics in Laboratory Chemistry |
| *CH 376K Advanced Analytical Chemistry | *CH 369K Techniques of Research (count on time only) |
| CH 354 Quantum Chemistry and Spectroscopy | *CH 369T Biotechnology Laboratory |
| CH 354L Physical Chemistry II | *CH 371K Science Outreach in Elementary Schools |
| CH 367L Macromolecular Chemistry | |

_____ + _____

No more than 3 hours of CH 369K or CH 371K may be counted toward this requirement.

Biology with Grades of C- or Better

Entry-level Biology: BIO 311C _____ + 311D _____ OR BIO 315H _____

Genetics: BIO 325 or 325H (prerequisite BIO 315H) _____

BIO: 9 additional hours from lists, including 3 hours each from Physiology and Cellular and Developmental Biology: _____ + _____ + _____

***Physiology:**

- | | |
|--------------|--------------------------------------|
| Biology 328 | Introductory Plant Physiology |
| Biology 339 | Metab & Biochem of Microorganisms |
| Biology 345 | Cell Physiology |
| Biology 361T | Comparative Animal Physiology |
| Biology 365R | Vertebrate Neurobiology |
| or | |
| Biology 371M | Neuronal Basis of Brain and Behavior |
| Biology 365S | Vertebrate Systems Physiology |

Cellular and Developmental Biology:

- | | |
|--------------|---|
| Biology 320 | Cell Biology |
| Biology 326R | General Micro: Cell Structure/Genetics |
| Biology 126L | General Microbiology Lab |
| Biology 330 | Animal Virology |
| Biology 331L | Laboratory Studies in Molecular Biology |
| Biology 344 | Molecular Biology |
| Biology 347 | Biology/Genetics of Immune Disorders |
| Biology 349 | Developmental Biology |
| Biology 360K | Immunology |

Enough Additional Elective Hours to Reach a Total of 127 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, NTR, PHY, SSC, TXA, and UTS-Natural Sciences.

Total Hours and Residency Requirements

- | | |
|---|--|
| 127 semester hours: _____ | 36 upper-division hours _____ |
| 60 hours in residence: _____ | 24 of the last 30 hours in residence: _____ |
| 18 upper-division hours in residence (including 12 in chemistry): _____ | No more than 16 hours of electives may be taken Pass/Fail. |

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. Advising is usually offered by appointment from 9:00am - 12noon and from 1:30pm - 4:30pm. For information call 471-3097. You can expect to receive the following assistance:

- information about degree requirements and academic policies and procedures;
- advice about course selection;
- assessment of your academic progress;
- 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. The student must know and abide by the academic and disciplinary policies given in the *Undergraduate Catalog* and in the *General Information* catalog, including rules governing quantity of work, the standard of work required to continue in the University, scholastic probation and dismissal, and enforced withdrawal. The student must also know and meet the requirements of his or her degree program, including the University's basic education requirements, must enroll in courses appropriate to the program, must meet prerequisites and take courses in the proper sequence to ensure orderly and timely progress must seek advice about degree requirements and other University policies when necessary.