Bachelor of Science in Biochemistry; Option II: Computation
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 is 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 _____

One of the Following: M 340L, 341; or SSC 329C: _______

8 hours: chosen from 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 _____

Computation Requirements with Grades of C- or Better

SSC 222: _______

9 hours from the lists below, including courses from 2 different lists: _____ + _____ + _____

Numerical Methods: CE 379K, CHE 348, M 348, CS 323E, CS 323H, CS 367, SSC 335

Statistical Methods: M 358K, M 378K, BME 335


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, chosen from one the following sequences):

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

Biochemistry: CH 339K _______ + 339L _______ + 369L _______ + 370_______
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Physical Chemistry: CH 353M

Analytical Chemistry: CH 455

Chemistry 368 (Topic: Computational Chemistry): 

Three hours of upper-division Chemistry laboratory, chosen from: 

CH 431 Inorganic Chemistry
CH 376K Advanced Analytical Chemistry
CH 369T Biotechnology Laboratory

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 & Developmental Biology: 

*Physiology:

Biology 328 Introductory Plant Physiology
Biology 339 Metab & Biochem of Microorganisms
Biology 361T Comparative Animal Physiology
Biology 365R Vertebrate Neurobiology

or

Biology 371M Neuronal Basis of Brain and Behavior

Biological 365S Vertebrate Systems Physiology

Cellular & 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 total: 
18 upper-division hours in residence (including 12 in chemistry): 
60 hours in residence:
24 of the last 30 hours in residence:
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 bachelors 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 417-3097. 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, and must seek advice about degree requirements and other University policies when necessary.

CNS Academic Records July 2010