

Bachelor of Science in Chemistry; Option I: Chemistry

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 approved list in a subject other than the one chosen for Part I: ____ [PHY 317K, 301, or 303K]

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, 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 approved list available in the CNS Dean's office and the college advising centers.

Mathematics and Physics With Grades of C- or Better

Mathematics: M 408N ____ + 408S ____ + 408M ____ OR M 408C ____ + 408D ____

Mathematics or Computer Sciences: 3 upper-division hours (M 340L or M 427K recommended) ____

Physics, 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 ____

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

9 hrs that count toward science or engineering majors, chosen from: College of Natural Sciences (excluding Chemistry); 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 in the Jackson School or in any department in Natural Sciences or the Cockrell School may be counted:

____ + ____ + ____

Chemistry with Grades of C- or Better

General Chemistry: CH 301 or 301H ____ + 302 or 302H ____ + 317 ____

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

Biochemistry: CH 339K or 369 ____

Physical Chemistry: CH 353 ____ + 153K ____ + 354 or 354L ____ + 154K ____

Analytical Chemistry: CH 456 (offered in Fall only) ____ + 376K (offered in Spring only) ____

Inorganic Chemistry: CH 431 ____

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Additional Chemistry with Grades of C- or Better

Six hours of Upper-Division Chemistry, including 3 hours in lab marked with *: _____ + _____

339J: Chemical and Synthetic Biology	367C: Materials Chemistry
339L: Biochemistry II	367L: Macromolecular Chemistry
341: Special Topics in Laboratory Chemistry *	368: Advanced Topics in Chemistry
354: Quantum Chemistry and Spectroscopy	369K: Techniques of Research *
354L: Physical Chemistry II	369L: Biochemistry Laboratory *
354S: Elements of Spectroscopy	370: Physical Methods for Biochemistry
364C: Bioinformatics	371K: Science Outreach in Elementary Schools *
364D: Macromolecular Structure Determination	372C: Chemistry Peer Mentors in Research and Teaching *
364E: Systems Biology	375K: Individual Study in Chemistry and Biochemistry
364F: Astrobiology	475K: Individual Study in Chemistry and Biochemistry
365D: Structure and Function of Proteins & Nucleic Acids	

CH 341 and 368 may be repeated for credit toward this requirement when the topics vary. No more than 3 hours of CH 369K, 371K, and 372C may be counted toward this requirement. An additional 3 hours of CH 369K, 371K and 372C may be counted as electives.

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, NEU, NSC, NTR, PHY, SSB, SSC, TXA, and UTS-Natural Sciences.

Total Hours and Residency Requirements

127 semester hours: _____

36 upper-division hours total: _____

21 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. 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: 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 this degree.

Students may earn only one BA and one BS in Chemistry 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. 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; 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. 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 2013