

Bachelor of Science in Chemistry  
Option II: Computation  
2014-16 Catalog (Expires August 2022)

University Core Curriculum	Lacking
<b>First-Year Signature Course:</b> UGS 302 or 303 ____	
<b>English:</b> RHE 306 ____	
<b>Humanities:</b> One course chosen from E 316K (if taken prior to Fall 2014), 316L, 316M, 316N, 316P ____	
<b>American &amp; Texas Government:</b> 6 hrs from approved core list ____ + ____	
<b>American History:</b> 6 hrs from approved core list ____ + ____	
<b>Social and Behavioral Sciences:</b> 3 hrs from approved core list ____	
<b>Mathematics:</b> 3 hrs from approved core list: ____ [M 408C or 408N]	
<b>Science and Technology Part I:</b> 6 hrs in a single subject from approved core list: ____ + ____ [CH 301 or 301H + CH 302 or 302H]	
<b>Science and Technology Part II:</b> 3 hrs from approved list in a subject other than the one chosen for Part I: ____ [PHY 301 or equiv.]	
<b>Visual &amp; Performing Arts:</b> 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 <i>core requirement</i> and a <i>major requirement</i> with a single course.	

Additional General Education Requirements	Lacking
<b>Two Writing Flags (must include a course that is not used to meet a core requirement and a course that is upper-division):</b> ____ + ____	
Quantitative Reasoning Flag Course: ____	
Writing and Quantitative Reasoning Flag courses may satisfy other degree requirements.	
<b>Foreign Language, Option A, B, or C:</b> ____ + ____	
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 area.	
C. Two three-hour culture courses chosen from one foreign culture area from an approved list available in the CNS Dean's office and the college advising centers.	

Introductory Mathematics and Science with grades of C- or better	Lacking
<b>Mathematics:</b> M 408C + M 408D: ____ + ____ or M 408N + M 408S + 408M: ____ + ____ + ____	
SDS 329C or M 340L or 341: ____	
<b>Physics: 8 hours chosen from one of the following sequences (lecture and accompanying lab):</b> ____ + ____ + ____ + ____	
A. PHY 317K + 117M AND 317L + 117N	
B. PHY 301 + 101L AND 316 + 116L	
C. PHY 303K + 103M AND 303L + 103N	

Chemistry courses required for all BS Chemistry options, with grades of C- or better	Lacking
<b>General Chemistry:</b> CH 301 or 301H and CH 302 or 302H + CH 317: ____ + ____ + ____	
<b>Organic Chemistry:</b> Complete one of the following sequences:	
A. CH 328M + 128K and CH 328N + 128L: ____ + ____ + ____ + ____	
B. CH 320M and CH 320N + 220C: ____ + ____ + ____	
<b>Biochemistry:</b> BCH 369 or 339F: ____	
<b>Physical Chemistry:</b> CH 353 or 353M + 153K and CH 354 or 354L + 154K: ____ + ____ + ____ + ____	
<b>Inorganic Chemistry:</b> CH 431: ____	
<b>Analytical Chemistry:</b> CH 456 + 376K: ____ + ____	

Computation coursework with grades of C- or better	Lacking
Note: Students who complete this option may simultaneously fulfill some of the requirements of the Certificate in Scientific Computation.	
CH 368 (Topic: Computational Chemistry): ____	
Complete at least 3 hours chosen from the following laboratory courses: ____	
BCH 369T Biotechnology Laboratory	
CH 341 Special Topics in Laboratory Chemistry	
CH 369K Techniques of Research	
CH 371K Science Outreach in Elementary Schools	
SDS 322: ____	
Complete 3 of the following courses from at least 2 of the following areas: ____ + ____ + ____	
a. <b>Numerical Methods:</b> CHE 348, C S 323E, 323H, 367, M 348, SDS 335	
b. <b>Statistical Methods:</b> BME 335, M 358K, 378K	

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c. <b>Other computing topics:</b> CS 324E, 327E, 329E (approved topics only), 377, M 346, 362M, 368K, 372K, 376C, M E 367S, SDS 329D, 374C, 374D, 374E	
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Enough Additional Elective Hours to Reach a Total of 127 Hours (including 36 upper-division Hours)	Lacking

Minimum Grade Point Average Requirements	Lacking
<b>2.0 grade point average in all mathematics and science courses required by degree*:</b> _____	
<b>2.0 grade point average in all courses taken at the University of Texas at Austin:</b> _____	
* Required mathematics and science courses may include: ACF, AST, BCH, BIO, CH, CS, EVS, GEO, HDF, HE, M, NEU, NSC, NTR, PBH, PHY, SDS, SSC, TXA, and UTS-Natural Sciences.	

Total Hours and Residency Requirements	Lacking
127 semester hours: _____	
36 upper-division hours: _____	
21 upper-division hours in residence (including at least 12 semester hours of upper-division coursework in Chemistry): _____	
60 hours in residence: _____	
No more than 6 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. A student may not earn more than one Bachelor of Arts, Bachelor of Science and Arts, or Bachelor of Science in Environmental Science degree from the University. A student may earn only one undergraduate degree in a particular field of study from the College of Natural Sciences. A student who holds a Bachelor of Arts or a Bachelor of Science and Arts degree from the university may earn a second major designation in another field of study that will appear on the University transcript. The title of the degree appears on the diploma, but the major does not. The title of the degree, the major, and the transcript-recognized certificate appear on the official transcript.	