

Bachelor of Science in Biology
Option X: Computational Biology
2014-16 Catalog (Expires August 2022)

University Core Curriculum	Lacking
First-Year Signature Course: UGS 302 or 303 ____	
English: RHE 306 ____	
Humanities: One course chosen from E 316K (if taken prior to Fall 2014), 316L, 316M, 316N, 316P ____	
American & Texas Government: 6 hrs from approved core list ____ + ____	
American History: 6 hrs from approved core list ____ + ____	
Social and Behavioral Sciences: 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: ____ + ____ [BIO 311C + BIO 311D]	
Science and Technology Part II: 3 hrs from approved list in a subject other than the one chosen for Part I: ____ [CH 301]	
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 <i>core requirement</i> and a <i>major requirement</i> with a single course.	

Additional General Education Requirements	Lacking
Two Writing Flags (must include a course that is not used to meet a core requirement and a course that is upper-division): ____ + ____	
Quantitative Reasoning Flag Course: ____ Writing and Quantitative Reasoning 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 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
Mathematics: M 408C + 408D or M 408N + 408S + 408M: ____ + ____ + ____	
Physics: 8 hours chosen from one of the following sequences (lecture and accompanying lab): ____ + ____ + ____ + ____	
A. PHY 301 + 101L AND 316 + 116L B. PHY 317K + 117M AND 317L + 117N C. PHY 303K + 103M AND 303L + 103N	
General Chemistry: CH 301 or 301H + 302 or 302H: ____ + ____	
General Chemistry Lab: CH 204: ____	

Biology with grades of C- or better	Lacking
<i>Complete one of the following sequences before progressing to other upper-division biology courses</i>	
Biology Sequence: BIO 311C, 311D and 325 OR BIO 315H and 325H: ____ + ____ + ____	

Computational Biology Coursework with grades of C- or better	Lacking
Linear Algebra or Matrix Theory: SDS 329C or M 340L or M 341: ____	
Probability: M 362K: ____	
<i>Complete one of the following courses:</i> M 358K, 378K, SDS 321, 325H, 328M: ____	
Computer Science: CS 303E: ____	
Computation: CS 313E or SDS 222: ____	
<i>Complete one of the following courses:</i> CS 323E, 323H, 324E, 327E, 329E, 337, 367, SDS 329D, 335, 374D, 374E, M 348, 372K, 376C: ____	
Biology: BIO 321G + 370: ____ + ____	
<i>Complete 18 additional hours of upper-division Biology:</i> ____ + ____ + ____ + ____ + ____ + ____	

Biology Breadth Courses required for All BS Biology Options, with grades of C- or better	Lacking
<i>You must complete one course from each of the following lists. Courses used for the upper-division biology coursework listed above may also count toward this requirement.</i>	
a. Cellular, Developmental, and Molecular Biology: BIO 320, 326R, 344, 349: ____	
b. Physiology and Neurobiology: BIO 328, 361T, 365S, NEU 365R or BIO 365R: ____	
c. Ecology, Evolution, and Behavior: BIO 357, 359K, 370, 373: ____	

Laboratory Coursework	Lacking
<i>You must complete at least 4 laboratory courses in Biology. 3 of these courses must be upper-division. Two of these upper-division courses</i>	

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<i>may be BIO 321G and SDS 328M. Courses counting toward other degree requirements may be used to meet this requirement.</i>	
Course 1: BIO 321G _____	
Course 2: _____	
Course 3: _____	
Course 4: _____	

24 hours of upper-division coursework beyond BIO 325 in Biology and approved related fields	Lacking
<i>Courses counting toward previous requirements will also be used to meet this requirement.</i>	

Enough Additional Elective Hours to Reach a Total of 126 Hours (including 36 upper-division hours)	Lacking

Minimum Grade Point Average Requirements	Lacking
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, 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
126 semester hours: _____	
36 upper-division hours: _____	
21 upper-division hours in biology in residence: _____	
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.	