

Bachelor of Science in Biology: Option X: Computational Biology
2010-12 Catalog (Expires August 2016)

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 408N or M 408C]

Science and Technology Part I: 6 hrs in a single subject from approved core list: ____ + ____ [CH 301 or 301H and 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 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

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

General Chemistry: CH 301 or 301H ____ + 302 or 302H ____ + 204 ____

Physics: PHY 302K (or 317K, 301 303K) ____ + PHY 102M (or 117M, 101L, 103M) ____
PHY 302L (or 317L, 316, 303L) ____ + PHY 102N (or 117N, 116L, 103N) ____

Computation, Statistics, and Additional Mathematics, with Grades of C- or Better

Linear Algebra, 3 hours: SSC 329C, M 340L, or M 341 ____

Probability and Statistics: M 362K ____ + M 358K or M 378K ____

Computer Science: CS 305J ____ + CS 307 or SSC 222 ____

3 hours chosen from the following: CS 323E, 323H, 324E, 237E, 329E, 337, 367; SSC 329D, 335, 374D, 374E; M 348, 372K, 376C: ____

Biology with Grades of C- or Better

Introductory Biology: BIO 311C ____ + 311D ____ + 325 ____ OR 315H ____ + 325H ____

Biology Breadth (Asterisked Courses may also count toward the Biology Required for Computational Biology lists)

Cellular, Developmental, and Molecular Biology, 3 hours: BIO 320, 326R, 344, or 349: ____

Physiology and Neurobiology, 3 hours: BIO 328, 361T, 365R, or 365S: ____

Ecology and Evolution, 3 hours: BIO 357, 359K, 370*, or 373: ____

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Biology Required for Computational Biology Option (Asterisked Courses may also count toward the Biology Breadth lists)

Computational biology: BIO 321G _____ + 370* _____

18 additional hours of upper-division Biology (may include additional Biology Breadth courses): _____ + _____ + _____ + _____ + _____ + _____

4 Biology Laboratory Courses

BIO 321G: _____

Two Additional Biology Laboratory Courses: _____ + _____

An Additional Biology Laboratory (lower or upper-division): _____

Minimum of 24 upper-division hours in Biology, beyond BIO 325: _____

Enough Additional Elective Hours to Reach a Total of **126** 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

126 semester hours: _____

36 upper-division hours: _____

24 upper-division Biology hours beyond BIO 325 from approved lists: _____

60 hours in residence: _____

24 of the last 30 hours in residence: _____

18 upper-division Biology hours in residence: _____

No more than 16 hours of electives may be taken Pass/Fail. Students may earn only one BA or one BS in Biology degree, though they may complete the requirements for additional 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.