

Bachelor of Science in Biology: Option III: Marine and Freshwater Biology

2012-14 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 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

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 an approved list available at:

<http://cns.utexas.edu/academics/degrees-majors/foreign-culture-categories>

Mathematics and Science, with Grades of C- or Better

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

Statistics: BIO 328M or SSC 328M ____

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

Organic Chemistry: CH 320M or 310M ____ + 320N or 310N ____ + 220C or 210C ____

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) ____

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

Biology Breadth Courses required for All BS Biology Options, with Grades of C- or Better

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: ____

* Asterisked courses are also on the option lists. Courses used for the biology breadth requirements may also count toward the laboratory requirements and the option requirements.

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Marine and Freshwater Biology Option, with Grades of C- or Better

Geological Sciences, 3 hours chosen from courses that may be counted toward a major in Geological Sciences: _____

Biology: BIO 326R ____ + **226L** ____ + 101C (Topic: Marine Science Seminar) ____

Marine Science: MNS 307 or GEO 307 ____ + MNS 320 ____ + MNS **120L** ____

21 upper-division hours in Biology, chosen from the following list: BIO **321L**, 327, **127L**, 328, **128L**, **354L**, 361T, 370, 375; MNS **440**, 352C, **352D**, 353 (Topic 17: Marine Fish Physiology), **354C**, **354Q**, 354T, 354U, 367K, 170, 270, 370; BIO **448L** or MNS **354**; BIO 364 or MNS 354E, GEO 422K:

_____ + _____ + _____ + _____ + _____ + _____ + _____ + _____ + _____ + _____ + _____

6 of these hours must be completed at the Marine Science Institute at Port Aransas, TX. Please consult your academic advisor to verify the appropriate courses: Marine Science Institute courses: _____ + _____

Bolded courses may count toward the upper-division biology laboratory requirements.

4 Laboratory Courses, including 3 upper-division and a specified introductory lab, with Grades of C- or Better

1 Introductory Biology Laboratory: BIO 206L, or 208L: _____

3 Upper-division Laboratory Courses: _____ + _____ + _____

Bolded courses in the Marine and Freshwater Biology Option section may count toward the upper-division biology laboratory requirements.

Minimum 24 hours of upper-division 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, NEU, 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: ____

21 upper-division Biology 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: some Elements of Computing courses, 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 your degree.

Students may earn only one BA and one BS in Biology 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.