

Bachelor of Science in Environmental Science, Major: Biological Sciences

2010-2012 Catalog (Expires August 2018)

By Admission Only

The BS in Environmental Science is designed for students interested in an interdisciplinary scientific perspective on environmental and sustainability issues, analysis, and management. The major provides the broad foundation in physical, life, and social sciences necessary to pursue a career and/or graduate study in environmental science and related fields such as climate change, ecology, or conservation. Students successfully completing the program will be able to critically assess environmental issues from multiple perspectives; perform field, laboratory, and computer analyses; and conduct original research.

The BS in Environmental Science, Biological Sciences major, is administered by the School of Biological Sciences and awarded by the College of Natural Sciences. The BS in Environmental Science, Geographical Sciences major, is administered by the Department of Geography and the Environment and awarded by the College of Liberal Arts. The BS in Environmental Science, Geological Sciences major, is administered and awarded by the Jackson School of Geological Sciences.

Entry into one of the majors is by admission only, through application to the department or school that administers the particular major. Students may earn only one BS in Environmental Science degree.

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 ____ [may be satisfied by ECO 304K if completed for Environmental & Sustainability Themes requirement]

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 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.

Prescribed Work Common to All EVS Majors, with Grades of C- or Better

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

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

Physics: PHY 317K ____ + 117M ____ **OR** 4 hours of another calculus-based physics sequence ____ + ____

Geological Sciences: GEO 401 or 303 ____ + 346 ____ + an approved geological sciences course in sustainability ____

Biology: BIO 311C ____ + 311D ____ **OR** BIO 315H ____

Ecology: BIO 373 ____ + 373L ____ **OR** MNS 320 ____ + 120L or 152T (Topic: Marine Ecology) ____

Geography: GRG 335N ____

Field Experience: One course from each of the following lists:

a. Introductory Field Seminar: EVS 311 ____

b. Senior Field/Research Experience: EVS 371, BIO 478T, or BIO 377 (with prior approval of the faculty advisor): ____

Research Methods: EVS 331 ____

Environmental and Sustainability Themes: One course from each of the following thematic areas:

a. Environmental and Sustainability Policy, Ethics, and History: GRG 334, 336C, 340D, 342C, 356C, or 356T (approved topics only); PHL 325C: ____

b. Geographic Information Systems: GEO 327G; GRG 360G, 462K: ____

c. Climates & Oceans: BIO 456L, GEO 371C (approved topics only), GEO 377P; GRG 333K, 356T (approved topics only); MNS 320, 440, 354Q, 354T, MNS 367K: ____

d. Environmental Economics, Sustainability and Business: ECO 304K or 330T: ____

Environmental Science: EVS 141 ____ + 151 ____

Note: A course counted in one prescribed work area may not also be used to fulfill the requirements of another prescribed work area.

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General Education Requirements Specific to Biological Sciences Major

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

Biology Major Requirements with Grades of C- or Better

Statistics, one course from: BIO 318M; SSC 318M, 321; or an upper-division statistics or probability course with consent of the undergraduate advisor: _____

Conservation and Environmental Biology, one course from: BIO 351, 359, 375; MNS 352 (Topic: *Concepts in Marine Conservation Biology*): _____

Genetics and Evolution: BIO 325 or 325H _____ + 370 _____

Taxon/Systems-based Diversity, one course OR lecture + lab pair, from: BIO 321L, 324 + 124L, 327 + 127L, 337 (Topic: *Natural History of the Protists*), 340L, 342L, 448L, 353F, 453L, 354L, 455L, 262 + 262L, 364, 369L, 471G; MNS 352 (Topic: *Principles of Estuarine Ecology* or Topic: *Marine Invertebrates*), 352D, 354C, 354E, 354U; GEO 479M: _____

Physiology, Neurobiology and Behavior, one course OR lecture + lab pair, from: BIO 322 + 122L, 328 + 128L, 438L, 339, 345E, 346, 359J, 359K, 359R, 361, 361T, 465M, 365R, 365S, 371L; MNS 355C: _____

Minimum of 15 hours of upper-division Biology from the prescribed work common to all majors and the biological sciences major. Must include One upper-division biology lab/field course (in addition to the lab/field courses in the prescribed work for the degree): _____

Enough Additional Elective Hours to Reach a Total of 126 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, PBH, PHY, SSC, TXA, and UTS-Natural Sciences.

Total Hours and Residency Requirements

126 semester hours: _____

15 upper-division hours in biology: _____

60 hours in residence: _____

24 of the last 30 hours in residence: _____

No more than 16 hours of electives may be taken Pass/Fail.

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.