



BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE (2018-2020 CATALOG)
PRESCRIBED WORK: REQUIRED BY ALL THREE TRACKS IN THE EVS PROGRAM

University Core Curriculum	<i>42 hours required. See EVS Program Office for approved course list.</i> Some EVS Prescribed Work will satisfy core requirements.
Mathematics	<i>Differential and integral calculus required. Options:</i> <ul style="list-style-type: none"> - M 408C (Differential & Integral Calculus), OR - M 408K or N AND M 408L or S (Differential Calculus and Integral Calculus)
Chemistry	<i>3 courses required:</i> <ul style="list-style-type: none"> • CH 301(H) (Principles of Chemistry I), AND • CH 302(H) (Principles of Chemistry II), AND • CH 204 (Introduction to Chemical Practice)
Physics	<i>1 pair required. Options:</i> <ul style="list-style-type: none"> - PHY 317K & PHY 117M (General Physics I with Lab), OR - PHY 303K & PHY 103M (Engineering Physics I with Lab), OR - PHY 301 & PHY 101L (Mechanics I with Lab)
Biology	<i>1-2 courses required, depending on sequence. Options:</i> <ul style="list-style-type: none"> - BIO 311C & BIO 311D (Introductory Biology I & II), OR - BIO 315H (Honors Introduction to Genetics)
Ecology	<i>2 courses required. Options:</i> <ul style="list-style-type: none"> - BIO 373 & BIO 373L (Ecology & Ecology Field Lab)¹, OR - MNS 320 & MNS 120L (Marine Ecology & Marine Ecology Lab), OR - BIO 337 & NSC 109 (Reefs & Rainforests Maymester – Australia)
Geological Sciences	<i>3 courses required:</i> <ul style="list-style-type: none"> • Geological Sciences course in Sustainability², AND • GEO 401 (Physical Geology) or GEO 303 or GRG 401C, AND • GEO 346C (Intro to Hydrogeology)
Geography	<i>1 course required:</i> <ul style="list-style-type: none"> • GRG 335N (Landscape Ecology)
Field Experience	<i>1 course required:</i> <ul style="list-style-type: none"> • EVS 311 (Introductory Field Seminar)
Research Methods	<i>1 course required:</i> <ul style="list-style-type: none"> • EVS 121 (Research Methods for Environmental Science)
Environmental and Sustainable Policy, Ethics, & History	<i>1 course required. See EVS Program Office for approved course list.</i>
Geographic Information Systems (GIS)	<i>1 course required. Options:</i> <ul style="list-style-type: none"> - GRG 460G (Environmental Geographic Systems), OR - GRG 462K (Intro to Remote Sensing of the Environment), OR - GEO 327G (Geographic Information Systems)
Climates & Oceans	<i>1 course required. See EVS Program Office for approved course list.</i>
Environmental Economics, Sustainability, & Business	<i>1 course required:</i> <ul style="list-style-type: none"> • ECO 304K (Introduction to Microeconomics)
Capstone Research Experience	<i>2 courses required:</i> <ul style="list-style-type: none"> • EVS 271 (Capstone Research Experience Prep), AND • EVS 371 (Capstone Research Experience)
Senior Seminars	<i>2 courses required:</i> <ul style="list-style-type: none"> • EVS 141 (Professional Development Seminar), AND • EVS 151 (Research & Communication Seminar)

¹ Biology track students are required to take the BIO 373 and 373L option to complete this requirement.

² This requirement is traditionally satisfied through UGS 303 Sustaining a Planet.



**BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE (2018-2020 CATALOG)
TRACK-SPECIFIC COURSEWORK**

EVS-GEOGRAPHY TRACK

Major Requirements, EVS-Geography Track

30 hours of approved Geography coursework required, including 18 hours upper-division and 18 hours in residence:

Geographical Sciences	<u>2 courses required:</u> <ul style="list-style-type: none"> GRG 401C (The Natural Environment), AND GRG 404E (A Changing World)
Additional Geography Coursework	<u>24 hours required. See EVS Program Office for approved course list.</u> Courses counted toward EVS Prescribed Work may also count toward this requirement.

Additional Prescribed Coursework, College of Liberal Arts

Foreign Language/Culture	<u>1-2 courses required, depending on sequence. Options:</u> <ul style="list-style-type: none"> Second-semester proficiency in a foreign language, OR Two foreign culture courses in the same category, OR Combination of foreign language and foreign culture in the same category <u>See EVS Program Office for approved course lists.</u>
Additional Social Science	<u>1 course required in addition to the core Social and Behavioral Science requirement.</u> <u>See EVS Program Office for approved course list.</u>
Cultural Expression, Human Experience and Thought (CEHET)	<u>1 course required. See EVS Program Office for approved CEHET course list.</u> A course counted toward any core curriculum requirement or any portion of the EVS Prescribed Work MAY NOT also count toward this requirement.

Flag Requirements, College of Liberal Arts

Writing Flags	<u>3 courses required, at least one must be upper-division. 2 writing flags typically fulfilled by:</u> <ul style="list-style-type: none"> GRG 404E (EVS-GRG track) EVS 121 (EVS Prescribed Work)
Global Cultures Flag	<u>1 course required.</u>
Cultural Diversity in the U.S. Flag	<u>1 course required.</u>
Quantitative Reasoning Flag	<u>1 course required. Typically fulfilled by:</u> <ul style="list-style-type: none"> Math or science course taken at UT for the EVS degree
Ethics and Leadership Flag	<u>1 course required. Typically fulfilled by:</u> <ul style="list-style-type: none"> GRG 404E (EVS-GRG track)
Independent Inquiry Flag	<u>1 course required. Typically fulfilled by:</u> <ul style="list-style-type: none"> EVS 371 (EVS Prescribed Work)

Degree Totals, EVS and College of Liberal Arts

126 hours total	
36 hours upper-division	
18 hours upper-division in residence	
60 hours in residence	



**BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE (2018-2020 CATALOG)
TRACK-SPECIFIC COURSEWORK**

EVS-GEOLOGY TRACK

Major Requirements, EVS-Geology Track

36 hours of coursework, including at least 12 upper-division hours of approved coursework in the Geological Sciences as follows:

Mathematics	<u>Multivariable calculus required. Options:</u> <ul style="list-style-type: none"> • M 408D (Sequences, Series, and Multivariable Calculus), OR • M 408M (Multivariable Calculus)
Physics	<u>1 pair required. Options:</u> <ul style="list-style-type: none"> • PHY 317L & 117N (General Physics II with Lab), OR • PHY 303L & 103N (Engineering Physics II with Lab), OR • PHY 316 & 116L (Electricity and Magnetism with Lab)
Geological Sciences	<u>4 courses required:</u> <ul style="list-style-type: none"> • GEO 405 (Life Through Time), AND • GEO 416K (Earth Materials), AND • GEO 416M (Sedimentary Rocks), AND • GEO 420K (Intro to Field & Stratigraphic Methods)
Climate & Water	<u>1 course required. Options:</u> <ul style="list-style-type: none"> - GEO 338J (Marine Geology) - GEO 347D (Global Warming) - GEO 347G (Climate System Modeling) - GEO 376E (Environmental Isotope Geochemistry) - GEO 371T (Paleoclimatology) - GEO 476K (Groundwater Hydrology) - GEO 476M (Chemical Hydrogeology) - GEO 376S (Physical Hydrology) - GEO 377P (Physical Climatology) <p>One course MAY NOT be used to fulfill both the EVS Climates & Oceans requirement (EVS Prescribed) and the Climate & Water requirement</p>
Upper-Division GEO Electives	<u>9 hours of additional upper-division coursework in the Geological Sciences required.</u>

Flag Requirements, Jackson School of Geosciences

Writing Flags	<u>2 courses required. 1 writing flag typically fulfilled by:</u> <ul style="list-style-type: none"> • EVS 121 (EVS Prescribed Work)
Global Cultures Flag	<u>1 course required.</u>
Cultural Diversity in the U.S. Flag	<u>1 course required.</u>
Quantitative Reasoning Flag	<u>1 course required. Typically fulfilled by:</u> <ul style="list-style-type: none"> • Math or science course taken at UT for the EVS degree
Ethics and Leadership Flag	<u>1 course required. Typically fulfilled by:</u> <ul style="list-style-type: none"> • UGS 303 Sustaining a Planet (EVS Prescribed Work)
Independent Inquiry Flag	<u>1 course required. Typically fulfilled by:</u> <ul style="list-style-type: none"> • EVS 371 (EVS Prescribed Work)

Degree Totals, EVS and Jackson School of Geosciences

126 hours total	
60 hours in residence	



**BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE (2018-2020 CATALOG)
TRACK-SPECIFIC COURSEWORK**

EVS-BIOLOGY TRACK

Major Requirements, EVS-Biology Track

26 hours of coursework, including at least 15 upper-division hours of approved coursework in Biology and the Environment as follows:

Statistics	<u>1 course required. Options:</u> <ul style="list-style-type: none"> • SDS 328M (Biostatistics), OR • SDS 321 (Introduction to Probability and Statistics)
Genetics and Evolution	<u>2 courses required:</u> <ul style="list-style-type: none"> • BIO 325 (Genetics), AND • BIO 370 (Evolution)
Conservation	<u>1 course required. Options:</u> <ul style="list-style-type: none"> - BIO 351 (Economic Botany) - BIO 359 (Global Environmental Change) - BIO 375 (Conservation Biology) - MNS 352 (Topic: Concepts in Conservation Biology) - MNS 353 (Topic: Fisheries Ecology)
Taxon-Based Diversity	<u>1 course/pair required. See EVS Program Office for approved course list.</u>
Physiology, Neurobiology, and Behavior	<u>1 course/pair required. See EVS Program Office for approved course list.</u>

Additional Prescribed Coursework, College of Natural Sciences

Foreign Language/Culture	<u>1-2 courses required, depending on sequence. Options:</u> <ul style="list-style-type: none"> • Second-semester proficiency in a foreign language, OR • Two foreign culture courses in the same category, OR • Combination of foreign language and foreign culture in the same category <u>See EVS Program Office for approved course lists.</u>
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Flag Requirements, College of Natural Sciences

Writing Flags	<u>2 courses required, at least one must be upper-division. Typically fulfilled by:</u> <ul style="list-style-type: none"> • EVS 121 (EVS Prescribed Work) • BIO 373L (Ecology Field Lab)
Global Cultures Flag	<u>1 course required.</u>
Cultural Diversity in the U.S. Flag	<u>1 course required.</u>
Quantitative Reasoning Flag	<u>1 course required. Typically fulfilled by:</u> <ul style="list-style-type: none"> • Math or science course taken at UT for the EVS degree
Ethics and Leadership Flag	<u>1 course required. Typically fulfilled by:</u> <ul style="list-style-type: none"> • UGS 303 Sustaining a Planet (EVS Prescribed Work)
Independent Inquiry Flag	<u>1 course required. Typically fulfilled by:</u> <ul style="list-style-type: none"> • EVS 371 (EVS Prescribed Work)

Degree Totals, EVS and College of Natural Sciences

126 hours total	
60 hours in residence	