

ENVS Earth and Atmospheric Sciences (EAS) BS Track Requirements
Fall 2023 Update – Courses listed are REGULARLY offered

FOUNDATION COURSES: *All required*

ENVS 120*: Living in the Anthropocene

ENVS 131**: Intro to ENVS Field Studies

ENVS 390: Seminar in Environmental Issues (taken JR or SR year)

*ENVS 130 or ENVS 140 may be substituted for ENVS 120

**ENVS_OX 131 fulfills the requirement of both ENVS 130 and ENVS 131

INTERMEDIATE BREADTH REQUIREMENTS: *Four courses, one from each area below*

Methods (pre-requisite for all: QTM 100)

ENVS 250: Fundamentals of Cartography & GIS

ENVS 260: Quantitative Methods in ENVS

ENVS 270: Environmental Data Science

Ecology, Conservation, and Health

ENVS 232: Fundamentals of Ecology w/lab

ENVS 240 or ENVS 240 w/lab: Ecosystem Ecology

ENVS/BIOL 247: Ecology

Earth and Atmospheric Sciences

ENVS 222: Evolution of the Earth w/lab

ENVS 229: Atmospheric Science w/lab

ENVS 239: Physical Oceanography

ENVS 245: Fundamentals in Soil Science

Social Science and Policy

ENVS 224: Economy and the Environment

ENVS 225: Institutions and the Environment

ENVS/POLS 227: Environmental Policy

ADVANCED SPECIALIZATION ELECTIVES: *Must take 4 from list below, with 2 or more at the 300+ level, plus one additional 3+ credit elective course in the department for a total of 5 electives*

Note: 2 courses from Intermediate Breadth and/or Advanced Specialization Categories must be field and/or lab courses.

EAS Track Advanced Specialization Electives

ENVS 215W: Great Books of the Geosciences

ENVS 222: Evolution of the Earth with Lab

ENVS 229: Atmospheric Science with Lab

ENVS 239: Physical Oceanography

ENVS 241+242: Modern and Ancient Tropical Environments (and field)

ENVS 245: Fundamentals in Soil Science

ENVS 250: Fundamentals of Cartography & GIS
ENVS 255W: Environmental Communication
ENVS 260: Quantitative Methods in ENVS
ENVS 270: Environmental Data Science
ENVS 333: Environmental Biogeochemistry
ENVS 326/526: Climate Change and Society
ENVS 328: Intro to Atmospheric Chemistry
ENVS 330: Climatology
ENVS 331: Earth Systems Science
ENVS 342: Barrier Island
ENVS 347/347L: Landscapes and Geomorphology
ENVS 365: Urban Geography

Pre-approved Special Topics: Approved special topics are posted on ENVS web site each semester.

Other special topics, study abroad, or 3-credit ENVS 399 courses may count for advanced specialization options with prior approval

INDEPENDENT STUDY REQUIREMENT: *Choose one, must be at least 4 credit hours*

ENVS 491: Environmental Sciences Practicum
ENVS 494: Individual Research
ENVS 495: Honors Research
ENVS 497: Undergraduate Internship
ENVS 498: Individual Directed Reading
ENVS 499: Advanced Independent Research

CAPSTONE REQUIREMENT: *1 credit course in final semester*

ENVS 490: ENVS Senior Capstone Portfolio

EXTERNAL BS REQUIREMENTS: 4 courses

Must take at least one natural science and one quantitative science, with two additional electives from list. One of the four courses must include a lab or lab pair.

| <u>Natural Science</u> | <u>Quantitative Science</u> |
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| <p>Chemistry CHEM 150: Structure and Properties (w/ 150L) CHEM 202: Principles of Reactivity (w/ 202L) CHEM 203: Advanced Reactivity CHEM 204: Macromolecules</p> <p>Physics PHYS 141: Intro Physics I w/ Lab PHYS 142: Intro Physics II w/ Lab PHYS 151: Phys for Sci & Engin I w/ Lab PHYS 152: Phys for Sci & Engin II w/ Lab</p> | <p>Computer Science CS 170: Intro to Computer Science I CS 171: Intro to Computer Science II CS 224: Foundations of Computer Science</p> <p>Mathematics MATH 111: Calc I MATH 112: Calc II (or 112Z) MATH 210: Adv. Calc for Data Sciences MATH 211: Adv Calc (Multivariable) MATH 212: Differential Equations MATH 221: Linear Algebra</p> <p>Quantitative Theory and Methods QTM 200: Applied Regression Analysis QTM 210: Probability and Statistics QTM 250: Data Science Computing</p> |