ENVS Environment and Health (EVH) BS Track Requirements
Fall 2022 Update – Courses listed are REGULARLY offered

FOUNDATION COURSES: *All required*
ENVS 140*: Environmental Change & Health
ENVS 131**: Intro to ENVS Field Studies
ENVS 390: Seminar in Environmental Issues (taken JR or SR year)

*ENVS 120 or ENVS 130 may be substituted for ENVS 140
**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 285: Fundamentals in Soil Science

Social Science and Policy
ENVS 224: Economy and the Environment
ENVS/POLS 227: Environmental Policy
ENVS 285: Environmental Epidemiology

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.

EVH Track Advanced Specialization Electives
ENVS 232: Fundamentals of Ecology with Lab
ENVS 234: Biophilic and Green Design
ENVS 240/240L: Ecosystem Ecology (with optional lab)
ENVS 250/550: Fundamentals of Cartography & GIS

ENVS 255W: Environmental Communication
ENVS 260: Quantitative Methods in ENVS
ENVS 270: Environmental Data Science
ENVS 323: Sustainable Food Systems
ENVS 328: Intro to Atmospheric Chemistry
ENVS 345: Conservation Biology
ENVS 359/559: Ecology & Evolution of Disease
ENVS 366: Population Ecology
ENVS 365: Urban Geography
ENVS 459/569: Urban Ecology & Development
ENVS 483/583: Spatial Analysis in Disease Ecology

Pre-approved Special Topics:
Biogeochemistry and Env Health, Perspectives on the Anthropocene, Environmental Epidemiology, Vector Ecology and Control

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. At least one course must be designated with a health-focus (+).One of the four courses must include a lab or lab pair.

Natural Science	**Quantitative Science**
Anthropology ANT 230: Medical Anthropology+ ANT 334: Evolutionary Medicine+ ANT 336: Anthropology of Emerging Disease+ **Biology** BIOL 141: Foundations of Modern Bio I (w/ 141L) BIOL 142: Foundations of Modern Biol II (w/ 142L) BIOL 241: Evolutionary Biology BIOL 347: Disease Ecology+ **Chemistry** CHEM 150: Structure and Properties (w/ 150L) CHEM 202: Principles of Reactivity (w/ 202L) CHEM 203: Advanced Reactivity CHEM 204: Macromolecules **Health** HLTH 207: Fundamentals of Epidemiology+ HLTH 210: Predictive Health and Society+ HLTH 250: Foundations of Global Health+ HLTH 317: Microbiome in Health and Disease+ HLTH 340: Food, Health, and Society+ HLTH 350R: Core Issues in Global Health: Under the Weather+ HLTH 385 (permanent number Spring 2020): The Science of Integrative Health+ HLTH 440: Botanical Medicine and Health+	**Mathematics** MATH 111: Calc I (or 111L) MATH 112: Calc II (or 112Z) MATH 116: Life Sciences Calculus II MATH 210: Adv. Calc for Data Sciences MATH 221: Linear Algebra **Quantitative Theory and Methods** QTM 210: Probability and Statistics QTM 220: Regression Analysis QTM 345: Advanced Statistics QTM 355: Introduction to Time Series Analysis QTM 360: Generalized Linear Models QTM 446: Big/Small Data and Visualization QTM 491: Design/Analysis Experiments