# ENVS Environment and Health (EVH) BS Track Requirements

**Effective Fall 2020**

## FOUNDATION COURSES: *All required*
- ENVS 140*: Environmental Change & Health
- ENVS 131**: Intro to ENVS Field Studies
- ENVS 390: Seminar in Environmental Issues

*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 230: Introductory Geoscience w/lab
- ENVS 235: Environmental Geology
- ENVS 239: Physical Oceanography

**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.

**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: Fundamentals of Cartography & GIS
ENVS 255W: Environmental Communication
ENVS 260: Quantitative Methods in ENVS
ENVS 270: Environmental Data Science
ENVS 321: Geology and Human Health
ENVS 328: Intro to Atmospheric Chemistry
ENVS 345: Conservation Biology
ENVS 348: Sustainable Water Resources with lab
ENVS 359: Ecology & Evolution of Disease
ENVS 365: Urban Geography
ENVS 459: Urban Ecology & Development
ENVS 460: Research Design and Practice
ENVS 483: Spatial Analysis in Disease Ecology
ENVS 545: Conservation Biology
ENVS 559: Ecology & Evolution of Disease
ENVS 560: Research Design & Practice in Environmental Sciences
ENVS 569: Urban Ecology and Development
ENVS 580: Primate Disease Ecology
ENVS 581: Environmental Disease Ecology
ENVS 583: Spatial Analysis in Disease Ecology

*Pre-approved Special Topics:*
Climate Policy Seminar, Population Ecology, Environmental Justice, Food Systems, Practice of Science

*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: Service Learning in ENVS
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 (+).*

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