

## Program Description

The curriculum is composed of six elements:

1. General education requirements: including BIOL 101+101L, CHEM 101+101L, MATH 231 and 232; see the Undergraduate Bulletin for ways these courses can help fulfill general education requirements
2. Basic science requirements in Biology, Chemistry, Physics and Mathematics: BIOL 201, 202; CHEM 102+102L, 261; MATH 233 if placed out of MATH 231 and 232; PHYS 118 and 119 [116 and 117] or PHYS 114 and 115 [104 and 105]. These provide grounding in the basic sciences equivalent to most fundamental science BA degrees
3. Skills: COMP 116 (or approved alternatives) provides a marketable skill in computer programming for data analysis and model building
4. Public Health Core: Coursework in the central Public Health disciplines, Biostatistics, Epidemiology, Health Policy and Health Behavior, BIOS 600, EPID 600, HBEH 600, HPM 600
5. Environmental Health Core: ENVR 230, 430, and 698 or alternative provide a broad perspective on environmental health problems and specific understanding of the scientific mechanisms underlying environment-related health effects.
6. Advanced Electives: Four courses at the advanced undergraduate or graduate (400 level or higher) relevant to Environmental Health allow in-depth study of specific aspects of Environmental Health..

A student can also complete an Honors Thesis, although this is not required.

## Department of Environmental Sciences and Engineering

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**BSPH**  
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# BSPH in Environmental Health Sciences



Identify, Understand, and  
Remedy Environmental  
Problems Locally and  
Globally

## The Bachelor of Science in Public Health (Environmental Health Sciences, ENHS)

### Who?

Do you want to:

- identify the key environmental factors that affect human health?
- understand the mechanistic basis for human and environmental health effects?
- evaluate the potential impact of emerging environmental threats, and formulate appropriate control measures?
- earn a Bachelor's degree from UNC-Chapel Hill?

**If so, you should consider the BSPH in Environmental Health Sciences!**

### What?

The BSPH in Environmental Health Sciences is a four-year, residential program offered by the Department of Environmental Sciences and Engineering. Successful applicants will have spent two years in the General College before transitioning to the Gillings School of Global Public Health.

We offer a **dual bachelor's-to-master's degree** for suitably qualified BSPH students.

### Where?

The Department of Environmental Sciences and Engineering (ESE) is one of the pioneer programs in environmental education and research in the United States. Research and teaching in ESE encompasses the chemical, biological, toxicological, and physical aspects of environmental and engineered processes, as well as the social, political, and legal considerations involved in managing the quality of our water, soil, and air resources. Specific areas of expertise include air quality, water quality, and biomarkers and mechanisms of human exposure and disease.

The undergraduate program is small and selective (25-30 students per year). Students participate in research alongside graduate students and postdocs. Recent BSPH graduates have worked on water purification (chemical and microbiological); genetic tracking of malarial infections; aerosol formation in the atmosphere; dermal exposure to chemicals in work environments; food insecurity in migrant communities; and many more areas.

Typical destinations for our BSPH graduates include non-profit organizations; environmental consultancies; local, state and federal agencies; graduate study in environmental science; and medical, dental and other professional schools.



*You will have the opportunity to work with renowned faculty and staff at one of the world's elite schools of public health.*

### How?

Students apply to the BSPH program in their sophomore year. The deadline is in early February.

Please stop by and say hello – we're happy to answer any questions you may have about our programs! Contact information is on the reverse side.