

# Bachelor of Science in Public Health (4 Years, 240 ECTS)

A public health program focused on prevention, population health, and health equity, integrating epidemiology, biostatistics, health systems, and community practice.

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## Program Overview

- **Award:** B.Sc. in Public Health
- **Duration:** 8 Semesters (4 academic years)
- **Total Credits:** 240 ECTS
- **Delivery:** Lectures (L), Seminars (SE), Tutorials (T), Labs (P), Practicum/Studio (S), Fieldwork (F), Internship (I)
- **Workload:** 1 ECTS  $\approx$  25–30 hours
- **Program Pillars:** Epidemiology • Biostatistics • Environmental Health • Health Policy & Systems • Global Health • Health Promotion & Behavior • Health Equity & Ethics • Program Design & Evaluation • Emergency Preparedness
- **Signature Experiences:** community practica, outbreak simulation workshops, and a field internship.

## Graduate Learning Outcomes

Graduates will be able to:

- 1 **Population Health.** Explain determinants of health and disease across populations and life stages.
- 2 **Epidemiology.** Design studies, calculate measures of association, and interpret causal evidence.
- 3 **Biostatistics.** Analyze health data and communicate uncertainty and limitations appropriately.
- 4 **Environmental Health.** Assess environmental exposures and propose mitigation and risk communication plans.
- 5 **Health Systems.** Understand how health services are organized, financed, and improved for quality and equity.
- 6 **Program Planning.** Design, implement, and evaluate public health programs with measurable outcomes.
- 7 **Ethics & Equity.** Apply ethical principles and equity frameworks to public health practice.

- 8 **Communication.** Communicate with communities and decision-makers using clear, culturally sensitive messaging.

# Curriculum Structure

Structured across 8 semesters (30 ECTS each). Most courses are 6 ECTS unless otherwise noted.

## Year 1

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| <b>Semester 1 (30 ECTS)</b> | <ul style="list-style-type: none"><li>• Introduction to Public Health - 6 ECTS</li><li>• Human Biology for Public Health - 6 ECTS</li><li>• Health, Society &amp; Inequality - 6 ECTS</li><li>• Academic Writing &amp; Communication - 6 ECTS</li><li>• Quantitative Skills (Intro) - 6 ECTS</li></ul> |
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| <b>Semester 2 (30 ECTS)</b> | <ul style="list-style-type: none"><li>• Epidemiology I - 6 ECTS</li><li>• Biostatistics I - 6 ECTS</li><li>• Environmental Health I - 6 ECTS</li><li>• Health Behavior &amp; Promotion - 6 ECTS</li><li>• Public Health Ethics &amp; Safety - 6 ECTS</li></ul> |
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## Year 2

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| <b>Semester 3 (30 ECTS)</b> | <ul style="list-style-type: none"><li>• Epidemiology II (Study Designs) - 6 ECTS</li><li>• Biostatistics II (Regression) - 6 ECTS</li><li>• Global Health - 6 ECTS</li><li>• Health Systems &amp; Policy I - 6 ECTS</li><li>• Technical Elective I - 6 ECTS</li></ul> |
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| <b>Semester 4 (30 ECTS)</b> | <ul style="list-style-type: none"><li>• Infectious Disease Epidemiology - 6 ECTS</li><li>• Environmental Health II (Exposure Assessment) - 6 ECTS</li><li>• Health Communication - 6 ECTS</li><li>• Program Planning &amp; Logic Models - 6 ECTS</li><li>• Technical Elective II - 6 ECTS</li></ul> |
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## Year 3

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| <b>Semester 5 (30 ECTS)</b> | <ul style="list-style-type: none"><li>• Chronic Disease Epidemiology - 6 ECTS</li><li>• Program Evaluation - 6 ECTS</li><li>• Health Policy &amp; Systems II - 6 ECTS</li><li>• Community Health Practicum I - 6 ECTS</li><li>• Technical Elective III - 6 ECTS</li></ul> |
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- Semester 6 (30 ECTS)**
- Outbreak Investigation & Surveillance - 6 ECTS
  - Public Health Data Systems - 6 ECTS
  - Emergency Preparedness - 6 ECTS
  - Technical Elective IV - 6 ECTS
  - Field Internship - 6 ECTS
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## Year 4

<b>Semester 7 (30 ECTS)</b>	<ul style="list-style-type: none"><li>• Advanced Epidemiology (Causal Inference) - 6 ECTS</li><li>• Health Economics (Intro) - 6 ECTS</li><li>• Environmental Justice &amp; Policy - 6 ECTS</li><li>• Technical Elective V - 6 ECTS</li><li>• Capstone I (Proposal &amp; Stakeholder Plan) - 6 ECTS</li></ul>
<b>Semester 8 (30 ECTS)</b>	<ul style="list-style-type: none"><li>• Capstone II (Applied Project &amp; Report) - 12 ECTS</li><li>• Monitoring &amp; Evaluation Dashboarding - 6 ECTS</li><li>• Leadership in Public Health - 6 ECTS</li><li>• Advanced Seminar &amp; Presentation - 6 ECTS</li></ul>

## Technical Elective Tracks

Choose at least 5 electives; focus on one track for specialization.

### Track A — Epidemiology & Biostatistics

- Advanced Regression
- Survival Analysis (Intro)
- Study Protocol Writing
- Causal Graphs

### Track B — Global Health

- Humanitarian Health
- Maternal & Child Health
- Health in Conflict Settings
- One Health (Intro)

### Track C — Environmental & Occupational Health

- Occupational Exposures
- Air Quality & Health

- Water & Sanitation
- Risk Assessment

### **Track D — Policy & Management**

- Health Financing
- Quality Improvement
- Public Health Law
- Systems Thinking

# Learning Resources & Practice Sites

## **Public Health Data Lab**

Secure analysis environment for health datasets and dashboard development.

## **Community Partnership Network**

Long-term relationships with health departments and NGOs for practica and capstones.

## **Simulation & Response Workshops**

Scenario-based outbreak and emergency response training.

## **Health Communication Studio**

Tools and coaching for public messaging, campaigns, and stakeholder engagement.

# Capstone Project Examples

- **Vaccination Uptake Improvement Plan**  
Analyze barriers and design a targeted intervention with evaluation metrics.
- **Air Quality and School Health Study**  
Assess exposure data and propose school-level mitigation strategies.
- **Outbreak Response Playbook**  
Create a surveillance and communication plan for a modeled outbreak scenario.
- **Maternal Health Equity Project**  
Co-design a community-informed program and produce a monitoring dashboard.