Population Health, M.S.

Degree Offered

- Master of Science

Nature of the Program

The Master of Science in Population Health program is a 30-credit, fully online program that prepares students for a variety of population-oriented leadership, clinical, and research-oriented positions in both healthcare and public health organizations. Specifically, the program is built around a core of public health and health services courses that provide foundational knowledge in public health and health systems, epidemiology and biostatistical principles, health systems leadership, systems thinking, and capacity building for intervention and change. The program emphasizes prevention, collaboration, and innovation to fit the educational opportunities of a variety of professionals, including:

- Healthcare leaders working to enhance the impact and efficiency of their organizations through more patient-centered, value-based and socially informed care approaches
- Clinical providers seeking to improve health outcomes among those they serve
- Public health leaders looking for new tools to identify and address health issues in their states and communities
- Public health and health services researchers and scientists interested in outcomes-focused, practice-based applications to improve health and well-being

The Master of Science in Population Health program prepares students for a variety of population-oriented leadership, clinical, and research-oriented positions in both healthcare and public health organizations. Additionally, this program prepares graduates for employment and advancement opportunities in the following sectors:

- Hospital and Health care systems
- Non-profit community health organizations
- Federal, state, and local government agencies
- Assisted care facilities (e.g., nursing homes)

Admissions

The following admission standards have been set for the proposed MS in Population Health program:

- Baccalaureate or advanced degree from a regionally accredited college or university with a minimum GPA of 2.75
- International students must meet WVU's minimum score requirements for English language proficiency. ([https://graduateadmissions.wvu.edu/how-to-apply/apply-for-2023-2024/international-graduate-applicant/](https://graduateadmissions.wvu.edu/how-to-apply/apply-for-2023-2024/international-graduate-applicant/))
- Resume or CV
- Three letters of recommendation
- Personal statement
- WVU applicants in good academic standing - as defined by their respective programs - who completed (or are currently enrolled in) a research or professional doctoral degree will be exempt from the above admissions requirements.

Admissions Requirements 2024-2025

The Admissions Requirements above will be the same for the 2024-2025 Academic Year.

PhD Major Code: 8410

Master of Science

A minimum cumulative GPA of 3.0 is required.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PUBH 604</td>
<td>Impact of Cultural Competence in Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 511</td>
<td>Epidemiology for Public Health Practice</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 512</td>
<td>Research Translation and Evaluation in Public Health Practice</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 520</td>
<td>Building and Sustaining Public Health Capacity</td>
<td>2</td>
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<tr>
<td>PUBH 540</td>
<td>Health Systems Leadership</td>
<td>3</td>
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<tr>
<td>PUBH 541</td>
<td>Systems Thinking in Public Health Practice</td>
<td>2</td>
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<tr>
<td>PUBH 659</td>
<td>Public Health Foundations</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 684</td>
<td>Population Health Capstone</td>
<td>2</td>
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Track/Emphasis Electives  9

Population Health Management
HPML 520  Health Administration and Operations Management
HPML 555  Health Services Project Management
HPML 556  Managerial Epidemiology & Strategy

Population Health Analysis
EPID 611  Concepts and Methods of Epidemiology
BIOS 603  Applied Biostatistics 2
BIOS 663  Introduction to Meta-Analysis

Occupational Medicine
OEHS 520  Industrial Hygiene
OEHS 622  Public Health Toxicology
OEHS 623  Occupational Injury Prevention
OEHS 665  Worksite Evaluation

Public Health/General Preventative Medicine
BIOS 603  Applied Biostatistics 2
PUBH 613  Public Health Program Evaluation
SBHS 611  Community Assessment
SBHS 620  Implementing and Managing Public Health Programs

Total Hours  30

Major Learning Outcomes

POPULATION HEALTH

The Master of Science in Population Health program at West Virginia University will prepare students for a variety of population-oriented leadership, clinical, and research-oriented positions in both healthcare and public health organizations. The design of the curriculum will reflect the program’s belief that both healthcare and public health must take a broader and more intentional perspective of how to identify and address pressing health issues while working for the health of the public. This includes concepts and skills that cover social determinants of health, the nature and process of public health, population health analytics, and population health management, as well as an emphasis on management and leadership skills. Students will learn under a comprehensive, competency-driven curriculum constructed to address contemporary and emerging trends.

Educational Goals and Objectives:

• Identify determinants of population health that impact health outcomes in a community.

• Describe methods for assessing the health needs of a population.

• Demonstrate how to collect, analyze, and use data to inform decisions and improve health outcomes of targeted populations.

• Communicate effectively about population health issues to constituencies both within and outside of the health system.

• Apply population health principles and concepts to develop and implement healthcare and/or public health strategies.

• Integrate clinical care and public health practice around an identified community need.