The Public Health major comprises the following concentrations:

- **The Biostatistics** concentration prepares students in the quantitative science of health data collection, storage, retrieval, analysis and interpretation. Graduates are equipped to use statistical methods to design and analyze health-related surveys and experiments for the purpose of improving health. The college’s faculty research interests include applying biostatistical analysis to better understand critical health problems such as adolescent substance abuse, HIV/AIDS, cancer and Alzheimer’s disease. Graduates in biostatistics are in demand at hospitals, pharmaceutical companies, state and local health departments, federal health agencies and biotechnology companies to analyze the effectiveness of new drugs and interventions, identify risk factors for disease and develop effective prevention strategies.

- **The Environmental Health Sciences** concentration is designed to help students understand how environmental factors including biological, physical and chemical factors affect the health of a population; and gain knowledge and skills to develop practical strategies for mitigating the effects of harmful environmental hazards. Graduates learn how to conduct laboratory analysis of environmental contaminants, develop plans to prepare communities to respond to man-made and natural disasters, incorporate health promoting principles into urban design, and develop safety plans for companies. Students benefit from the college’s faculty research expertise in bio-preparedness, microbiology and occupational health and safety. Career opportunities in environmental health sciences include positions in research and clinical laboratories, environmental protection agencies, manufacturing companies, emergency management agencies and state and local health departments.

- **The Epidemiology** concentration prepares students to analyze the distribution and determinants of disease, disabilities and death in populations. Graduates are able to apply quantitative and qualitative methods to investigate disease outbreaks, determine causal relationships between environmental and biological factors, and conduct studies to project health trends in populations. Students in this specialization benefit from public health faculty research agendas in bio-preparedness, public health surveillance systems, chronic disease, cancer and infectious disease epidemiology. Career opportunities for graduates include research positions in universities, medical schools and pharmaceutical companies; disease prevention specialists in hospitals; and surveillance managers in state and local health departments.

- **The Health Policy and Management** concentration prepares students to address public health risks and develop effective health services delivery models. It is an interdisciplinary program that incorporates health services research, health policy analysis and health care planning and management. Given the active research of the college’s faculty in identifying service gaps and in developing evidence-based practices and policy analysis, students emerge with strong skills in health services management, alternative models of service financing and strategies for improving services. Career opportunities for graduates include administrative and management positions in hospitals, clinics, state and local health departments, nursing homes and mental health facilities; policy analyst positions in health planning organizations and governmental agencies; and planning and management positions in health maintenance organizations and health insurance companies.

- **The Social and Behavioral Sciences** concentration provides students with an interdisciplinary understanding of the theoretical basis of health behavior in populations across the life course and how to apply theoretical principles to design effective health behavior management strategies. Graduates are able to design and evaluate public health interventions intended to improve health for families, workplaces, communities, and other settings. The active research of the college’s faculty, particularly in the areas of childhood obesity, violence and injury prevention, substance abuse prevention, and chronic disease prevention, provides students the opportunity to work on large-scale externally funded prevention research. Students are prepared for careers in health promotion; program design and evaluation; and prevention program development for state and local health departments, workplace health promotion programs, hospitals, international health agencies, mental health centers and non-profit organizations.

**Fully Offered At:**

- Online (Health Policy and Management and Social and Behavioral Sciences concentrations only)
- Kent Campus
- Trumbull Campus (Health Policy and Management concentration only)
- Regional Academic Center in Twinsburg (Health Policy and Management concentration only)

**Accreditation**

The M.P.H. degree in Public Health is accredited by the Council on Education for Public Health (CEPH).

**Admission Requirements**

- Bachelor’s degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000 point scale
- Official transcript(s)
- GRE scores or other standardized graduate admission exam (GMAT, MCAT, LSAT or PCAT)¹
- Goal statement
- Three letters of recommendation
- English Language Proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:

¹ GRE scores are not required for students whose first language is English.
Program Learning Outcomes

Graduates of this program will be able to:

1. Explain public health history, philosophy and values
2. Identify the core functions of public health and the 10 Essential Services
3. Explain the role of quantitative and qualitative methods and sciences in describing and assessing a population’s health
4. List major causes and trends of morbidity and mortality in the US or other community relevant to the school or program
5. Discuss the science of primary, secondary and tertiary prevention in population health, including health promotion, screening, etc.
6. Explain the critical importance of evidence in advancing public health knowledge
7. Explain effects of environmental factors on a population’s health
8. Explain biological and genetic factors that affect a population’s health
9. Explain behavioral and psychological factors that affect a population’s health
10. Explain the social, political and economic determinants of health and how they contribute to population health and health inequities
11. Explain how globalization affects global burdens of disease
12. Explain an ecological perspective on the connections among human health, animal health and ecosystem health (e.g., One Health)
13. Apply epidemiological methods to the breadth of settings and situations in public health practice
14. Select quantitative and qualitative data collection methods appropriate for a given public health context
15. Analyze quantitative and qualitative data using biostatistics, informatics, computer-based programming and software, as appropriate
16. Interpret results of data analysis for public health research, policy or practice
17. Compare the organization, structure and function of health care, public health and regulatory systems across national and international settings
18. Discuss the means by which structural bias, social inequities and racism undermine health and create challenges to achieving health equity at organizational, community and societal levels
19. Assess population needs, assets and capacities that affect communities’ health
20. Apply awareness of cultural values and practices to the design or implementation of public health policies or programs
21. Design a population-based policy, program, project or intervention
22. Explain basic principles and tools of budget and resource management
23. Select methods to evaluate public health programs
24. Discuss multiple dimensions of the policy-making process, including the roles of ethics and evidence
25. Propose strategies to identify stakeholders and build coalitions and partnerships for influencing public health outcomes
26. Advocate for political, social or economic policies and programs that will improve health in diverse populations
27. Evaluate policies for their impact on public health and health equity
28. Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making
29. Apply negotiation and mediation skills to address organizational or community challenges
30. Select communication strategies for different audiences and sectors
31. Communicate audience-appropriate public health content, both in writing and through oral presentation
32. Describe the importance of cultural competence in communicating public health content
33. Perform effectively on interprofessional teams
34. Apply systems thinking tools to a public health issue

Program Requirements

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<tr>
<th>Code</th>
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<td>BIOSTATISTICS IN PUBLIC HEALTH</td>
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<td>ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH</td>
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<td>FUNDAMENTALS OF PUBLIC HEALTH EPIEMIOLOGY</td>
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<td>HPM 53010</td>
<td>COMMUNITY HEALTH NEEDS ASSESSMENT</td>
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<td>SBS 54634</td>
<td>SOCIAL DETERMINANTS OF HEALTH BEHAVIORS</td>
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Advisor Approved Electives, choose from the following: 6

- BST 50196 INDIVIDUAL INVESTIGATION IN BIOSTATISTICS
- BST 60195 SPECIAL TOPICS IN BIOSTATISTICS
- BST 63012 SURVIVAL ANALYSIS IN PUBLIC HEALTH
- BST 63013 EXPERIMENTAL DESIGNS IN PUBLIC HEALTH RESEARCH
- BST 63014 APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA
- EHS 50196 INDIVIDUAL INVESTIGATION IN ENVIRONMENTAL HEALTH SCIENCES
- EHS 53009 EMERGING ENVIRONMENTAL HEALTH ISSUES AND RESPONSE
- EHS 53012 OCCUPATIONAL SAFETY AND HEALTH
- EHS 60195 SPECIAL TOPICS IN ENVIRONMENTAL HEALTH SCIENCES
- EHS 63010 APPLIED RISK ASSESSMENT
- EHS 63011 APPLICATION OF RISK ANALYSIS IN ENVIRONMENTAL HEALTH
- EPI 50013 CLINICAL EPIDEMIOLOGY BASICS
- EPI 50014 CLINICAL TRIALS MANAGEMENT
### EPI 50015
SCIENTIFIC WRITING FOR CLINICAL RESEARCH

### EPI 50018
REGULATORY AFFAIRS IN CLINICAL RESEARCH

### EPI 50196
INDIVIDUAL INVESTIGATION IN EPIDEMIOLOGY

### EPI 60195
SPECIAL TOPICS IN EPIDEMIOLOGY

### EPI 63014
EPIDEMIOLOGY OF CHRONIC DISEASES

### EPI 63015
EPIDEMIOLOGY OF INFECTIOUS DISEASES

### EPI 63016
PRINCIPLES OF EPIDEMIOLOGIC RESEARCH

### EPI 63017
EPIDEMIOLOGICAL ANALYSIS

### EPI 63018
LONGITUDINAL DATA ANALYSIS

### EPI 63019
INDIVIDUAL INVESTIGATION IN EPIDEMIOLOGY

### HPM 50196
INDIVIDUAL INVESTIGATION IN HEALTH POLICY AND MANAGEMENT

### HPM 52015
EMERGING ISSUES IN PUBLIC HEALTH POLICY AND MANAGEMENT

### HPM 53003
HEALTH CARE SYSTEMS

### HPM 53004
PUBLIC HEALTH POLICY, LAW AND ETHICS

### HPM 53005
FINANCIAL MANAGEMENT FOR PUBLIC HEALTH ORGANIZATIONS

### HPM 53006
COST BENEFIT ANALYSIS IN PUBLIC HEALTH PROGRAMS

### HPM 53007
PUBLIC HEALTH PROGRAMS: PLANNING, IMPLEMENTATION AND EVALUATION

### HPM 53008
FOUNDATIONS FOR EFFECTIVE PUBLIC HEALTH LEADERSHIP

### HPM 53009
WHOLE SYSTEMS APPROACHES TO LEADING ORGANIZATIONAL CHANGE IN PUBLIC HEALTH

### HPM 53012
OBAMACARE AND NATIONAL HEALTH REFORM

### HPM 53013
SPECIAL TOPICS IN HEALTH POLICY AND MANAGEMENT

### HPM 60195
PRACTICUM EXPERIENCE IN PUBLIC HEALTH POLICY AND MANAGEMENT

### HPM 64002
GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND

### SBS 50002
QUANTITATIVE METHODS IN SOCIAL AND BEHAVIORAL SCIENCES

### SBS 50020
SOCIAL AND BEHAVIORAL SCIENCE THEORIES

### SBS 50030
SEMINAR IN SOCIAL AND BEHAVIORAL SCIENCES

### SBS 50196
INDIVIDUAL INVESTIGATION IN SOCIAL AND BEHAVIORAL SCIENCES

### SBS 53008
GRANT WRITING IN SOCIAL AND BEHAVIORAL SCIENCES

### BST 63014
APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA

### EPI 60192
PRACTICUM EXPERIENCE IN EPIDEMIOLOGY

### EPI 63016
PRINCIPLES OF EPIDEMIOLOGIC RESEARCH

### EPI 63034
LONGITUDINAL DATA ANALYSIS

### EPI 63035
APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA

### EPI 63036
INDIVIDUAL INVESTIGATION IN EPIDEMIOLOGY

### EPI 63037
PRINCIPLES OF EPIDEMIOLOGIC RESEARCH

### EPI 63038
EPIDEMIOLOGICAL ANALYSIS

### EPI 63039
LONGITUDINAL DATA ANALYSIS

### HPM 50196
INDIVIDUAL INVESTIGATION IN HEALTH POLICY AND MANAGEMENT

### HPM 53003
HEALTH CARE SYSTEMS

### HPM 53004
PUBLIC HEALTH POLICY, LAW AND ETHICS

### HPM 53005
FINANCIAL MANAGEMENT FOR PUBLIC HEALTH ORGANIZATIONS

### HPM 53006
COST BENEFIT ANALYSIS IN PUBLIC HEALTH PROGRAMS

### HPM 53007
PUBLIC HEALTH PROGRAMS: PLANNING, IMPLEMENTATION AND EVALUATION

### HPM 53008
FOUNDATIONS FOR EFFECTIVE PUBLIC HEALTH LEADERSHIP

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### SBS 50196
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### SBS 53008
GRANT WRITING IN SOCIAL AND BEHAVIORAL SCIENCES

### EHS 60192
PRACTICUM EXPERIENCE IN ENVIRONMENTAL HEALTH SCIENCES

### EHS 60199
LABORATORY SAFETY AND HYGIENE

### EHS 63009
EMERGING ENVIRONMENTAL HEALTH ISSUES AND RESPONSE

### EHS 53012
OCCUPATIONAL SAFETY AND HEALTH

### EHS 53014
BUILT ENVIRONMENT AND PUBLIC HEALTH

### EHS 63010
APPLIED RISK ASSESSMENT

### EHS 63011
APPLICATION OF RISK ANALYSIS IN ENVIRONMENTAL HEALTH

### EPI 63016
PRINCIPLES OF EPIDEMIOLOGIC RESEARCH

### BST 63012
SURVIVAL ANALYSIS IN PUBLIC HEALTH

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APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA

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### HPM 53004
PUBLIC HEALTH POLICY, LAW AND ETHICS

### HPM 53005
FINANCIAL MANAGEMENT FOR PUBLIC HEALTH ORGANIZATIONS

### HPM 53006
COST BENEFIT ANALYSIS IN PUBLIC HEALTH PROGRAMS

### HPM 53007
PUBLIC HEALTH PROGRAMS: PLANNING, IMPLEMENTATION AND EVALUATION

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### SBS 53008
GRANT WRITING IN SOCIAL AND BEHAVIORAL SCIENCES

### Concentrations
Choose from the following: 21

- Biostatistics
- Environmental Health Sciences
- Epidemiology
- Health Policy and Management
- Social and Behavioral Sciences

### Minimum Total Credit Hours: 46

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### Biostatistics Concentration Requirements
**[MPH-BST]**

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Social and Behavioral Sciences Concentration Requirements [MPH-SBS]

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Minimum Total Credit Hours: 21

Graduation Requirements

1. 300 hours of practicum placement at an approved public health agency, under the guidance of a qualified preceptor
2. A final portfolio/report and a seminar presentation integrating theory and practice
3. A comprehensive written exam