PROGRAM REQUIREMENTS
• 42 credits total
• Written essay OR thesis
• 200 hour practicum

PROGRAM LENGTH
• Full-time students complete the program in 2 years or less
• Part-time students complete the program in 3-4 years on average

UNDERGRAD MAJOR
• Biology, Microbiology, or Chemistry
• Public Health or Pre-Med
• Health Professions (Medicine, Nursing, Pharmacy, Social Work, Dentistry)
• Psychology or Sociology

CAREER POSSIBILITIES
• Academic Institutions
• Local, State, and Federal Agencies
• Non-Profit Agencies and NGOs
• Domestic and International Public Health
• Further Education in Medicine or Doctoral Programs

University of Pittsburgh
Graduate School of Public Health
Department of Infectious Diseases & Microbiology
2122 Public Health Building
130 DeSoto Street
Pittsburgh, PA 15261
Phone: 412-624-3331
E-mail: idm@pitt.edu
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Chelsea Yonash, MA
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412-624-3331
cry8@pitt.edu

MASTER OF PUBLIC HEALTH
Infection Prevention and Intervention
Infectious Diseases and Microbiology
Graduate School of Public Health
University of Pittsburgh
The MPH Infectious Disease Infection Prevention and Intervention degree program (IPI) provides students with skills in program planning and evaluation and public health education to qualify for positions in health departments, government agencies, or to attend medical school or doctoral programs.

**ADMISSION MATERIALS**

To apply, you will need:

- SOPHAS application
- Official GRE scores (optional) to GSPH, code: 4234
- Official transcripts for completed degrees
- Personal statement
- Three letters of recommendation
- Official TOEFL scores to SOPHAS, code: 5688 (International applicants only)

**APPLICATION SUBMISSION**

All applications must be submitted online through SOPHAS, the Schools of Public Health Application Service: [http://www.sophas.org](http://www.sophas.org).

Visit SOPHAS’ FAQ page: [http://sophas.org/faqs/](http://sophas.org/faqs/)

**MPH-IP PROGRAM COMPETENCIES**

1. Demonstrate knowledge of local, regional, national and global infectious diseases.
2. Demonstrate knowledge of social, economic, and cultural factors for the prevention, control and/or elimination of the emergence and spread of infectious diseases in specific populations and communities.
3. Demonstrate knowledge of infectious disease pathogenesis, prevention, clinical diagnosis, and treatment in relevant populations in domestic and international settings.
4. Demonstrate knowledge of clinical, behavioral, epidemiological aspects of infectious disease prevention and treatment interventions for health services, systems of care, organizations, institutions, communities, and governments.
5. Demonstrate knowledge and skills in recognizing, assessing, evaluating scientific research and best practices to make evidence-based public health recommendations for infectious disease planning, interventions, research, and policies.

**REQUIRED COURSES**

- IDM 2007 Infectious Disease Practicum
- IDM 2021 Special Studies in Microbiology
- IDM 2025 Microbiology Seminar & Journal Club
- IDM 2032 Human Diversity & Public Health
- IDM 2034 Control and Prevention of HIV/AIDS
- IDM 2038 Prevention, Treatment, and Control of Global Infectious Diseases
- IDM 2069 Infection Prevention and Control in Healthcare Settings
- BCHS 2509 Social and Behavioral Sciences & Public Health
- BIOST 2041 Introduction to Statistical Methods I
- EOH 2013 Environmental Health and Disease
- EPIDEM 2110 Principles of Epidemiology
- HPM 2001 Intro to Leadership, Management and Policy for Public Health
- PUBHLT 2015 Public Health Biology
- PUBHLT 2022 Public Health Grand Rounds
- PUBHLT 2033 Foundations of Public Health
- PUBHLT 2034 Public Health Communications
- PUBHLT 2035 Applications in Public Health
PROGRAM REQUIREMENTS

- 36 credits total
- Comprehensive exam
- Research project
- Written thesis & defense

PROGRAM LENGTH

- Full-time students complete the program in 2 years or less
- Part-time students complete the program in 3-4 years on average

UNDERGRAD MAJOR

- Biology & Microbiology
- Biological Sciences & Chemistry
- Pre-med

CAREER POSSIBILITIES

- Academic Institutions
- Governmental Agencies (NIH, CDC, FDA)
- Biotech/Pharmaceutical Industry
- Non-Profit Agencies
- Medical School
- Doctoral programs

University of Pittsburgh

Graduate School of Public Health
Department of Infectious Diseases & Microbiology
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Chelsea Yonash, MA
Student Services Coordinator
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cry8@pitt.edu
The MS program in the Department of Infectious Diseases and Microbiology provides students with a basic research education to prepare them for careers in industry, government, or academic institutions as a microbiologist, analyst, or pharmaceutical salesperson.

**ADMISSION MATERIALS**

To apply, you will need:

- SOPHAS application
- Official GRE scores (optional) to GSPH, code: 4234
- Official transcripts for completed degrees
- Personal statement
- Three letters of recommendation
- Official TOEFL scores to SOPHAS, code: 5688 (International applicants only)

**APPLICATION SUBMISSION**

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**REQUIRED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>IDM 2001</td>
<td>Molecular Biology of Microbial Pathogens</td>
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<td>IDM 2002</td>
<td>Molecular Virology</td>
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<td>IDM 2003</td>
<td>Host Response to Microbial Infection Viral</td>
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<td>IDM 2004</td>
<td>Pathogenesis</td>
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<td>IDM 2021</td>
<td>Special Studies in Microbiology</td>
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<td>IDM 2023</td>
<td>Microbiology Laboratory</td>
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<td>Microbiology Seminar</td>
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<td>IDM 2041</td>
<td>Research Ethics &amp; Scientific Communication</td>
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<td>BIOT 2041</td>
<td>Introduction to Statistical Methods I</td>
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<tr>
<td>EPIDEM 2110</td>
<td>Principles of Epidemiology</td>
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<tr>
<td>EPIDEM 2161</td>
<td>Methods of Infectious Disease Epi</td>
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<tr>
<td>PUBHLT 2011</td>
<td>Essentials of Public Health</td>
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<tr>
<td>PUBHLT 2022</td>
<td>Public Health Grand Rounds</td>
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**MS PROGRAM COMPETENCIES**

1. Demonstrate knowledge of the molecular biology of hosts and pathogens and the pathogenesis of host/pathogen interactions.

2. Demonstrate knowledge of the mechanisms of innate and acquired immunity and their roles in health and disease.

3. Demonstrate an ability to analyze and interpret data from scientific publications covering molecular biology, microbiology, immunology, and infectious diseases.

4. Show an ability to think independently and demonstrate comprehensive knowledge in a specific area related to the student’s thesis research.

5. Demonstrate an ability to conduct relatively independent laboratory-based research.

**Employment by Industry**

- Industry, 33%
- Academia, 27%
- Government, 16%
- Further Education, 22%
- Unknown, 2%

MS Alumni
Employment by Industry
April 2015 - 2008
PROGRAM REQUIREMENTS
• 42 credits total
• Written essay OR thesis
• 200 hour practicum
• OPTIONAL lab rotation

PROGRAM LENGTH
• Full-time students complete the program in 2 years or less
• Accelerated schedule available: 1.5 years
• Part-time students complete the program in 3-4 years on average

UNDERGRAD MAJOR
• Biology, Microbiology, or Chemistry
• Public Health or Pre-Med
• Health Professions (Medicine, Nursing, Pharmacy, Social Work, Dentistry)

CAREER POSSIBILITIES
• Public Health Specialist
• Epidemiologist
• Quality Control Associate
• Data Manager
• Emergency Preparedness

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Chelsea Yonash, MA
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MASTER OF PUBLIC HEALTH
Pathogen Bioscience
Infectious Diseases and Microbiology
Graduate School of Public Health
University of Pittsburgh
The MPH Infectious Disease Pathogen Bioscience degree program (PB) provides students with the skills to secure jobs in government agencies, academic institutions, as well as private industry. Many graduates have also used the degree as a foundation for medical school or further graduate education.

**ADMISSION MATERIALS**

To apply, you will need:

- SOPHAS application
- Official GRE scores (optional) to GSPH, code: 4234
- Official transcripts for completed degrees
- Personal statement
- Three letters of recommendation
- Official TOEFL scores to SOPHAS, code: 5688 (International applicants only)

**APPLICATION SUBMISSION**

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**MPH-PB PROGRAM COMPETENCIES**

1. Demonstrate increased knowledge in infectious disease pathogenesis and its application to public health prevention and control.
2. Demonstrate knowledge of host response mechanism and application to domestic and global infectious diseases.
3. Contribute to research and development in novel or enhanced prevention, treatment, and eradication programs.
4. Demonstrate skills in basic laboratory methods and data analyses as applied to public health infectious disease programs.

**REQUIRED COURSES**

- IDM 2003 Host Response to Microbial Infections
- IDM 2007 Infectious Disease Practicum
- IDM 2010 Pathogen Biology
- IDM 2021 Special Studies in Microbiology
- IDM 2025 Microbiology Seminar & Journal Club
- BCHS 2509 Social and Behavioral Sciences & Public Health
- BIOST 2041 Introduction to Statistical Methods
- EOH 2013 Environmental Health and Disease
- EPIDEM 2110 Principles of Epidemiology
- HPM 2001 Intro to Leadership, Management Policy for Public Health
- PUBHLT 2022 Public Health Grand Rounds
- PUBHLT 2033 Foundations of Public Health
- PUBHLT 2034 Public Health Communications
- PUBHLT 2035 Applications in Public Health
**PROGRAM REQUIREMENTS**
- 72 credits total
- Preliminary exam
- Comprehensive exam
- Research project and Dissertation
- First author publication

**PROGRAM LENGTH**
Students complete the PhD program on an average of 6 years.

**UNDERGRAD MAJOR**
- Biology
- Microbiology
- Biological Sciences
- Molecular Biology
- Chemistry

**CAREER POSSIBILITIES**
- Faculty positions in academic institutions
- Fellowships at government agencies (NIH, CDC) and academic institutions
- Administrative positions at government agencies and private corporations
- Lead researchers in private corporations

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**University of Pittsburgh**
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Department of Infectious Diseases & Microbiology
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cry8@pitt.edu

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**DOCTOR OF PHILOSOPHY**
Infectious Diseases and Microbiology
Graduate School of Public Health
University of Pittsburgh
Our PhD program provides students with the opportunity to refine their research skills and gain leadership experience in an increasingly competitive career. Students graduate with the knowledge and experience needed for CDC and NIH postdoctoral fellowships, as well as for academic and non-academic positions at leading research institutions and companies.

**ADMISSION MATERIALS**

To apply, you will need:
- SOPHAS application
- Official GRE scores (optional) to GSPH, code: 4234
- Official transcripts for completed degrees
- Personal statement
- Three letters of recommendation
- Official TOEFL scores to SOPHAS, code: 5688 (International applicants only)

**APPLICATION SUBMISSION**

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**PHD PROGRAM COMPETENCIES**

1. Demonstrate knowledge of the molecular biology of hosts and pathogens and how pathogenesis of infectious diseases evolves from the interactions of organisms on a molecular level.

2. Demonstrate comprehensive knowledge of the mechanisms of innate and acquired immunity and the role of immune functions in health and disease.

3. Demonstrate an ability to analyze and interpret data from scientific publications in the field of molecular biology, microbiology, immunology, or infectious diseases.

4. Show an ability to think independently and demonstrate comprehensive knowledge in a specific area of microbiology related to the student’s dissertation work.

5. Conduct independent laboratory-based research leading to a first author publication in a professional peer-reviewed journal.

**REQUIRED COURSES**

- IDM 2001 Molecular Biology of Microbial Pathogens
- IDM 2002 Molecular Virology
- IDM 2003 Host Response to Microbial Infection Viral
- IDM 2004 Pathogenesis
- IDM 2014 Functional Genomics
- IDM 2021 Special Studies in Microbiology
- IDM 2023 Microbiology Laboratory
- IDM 2025 Microbiology Seminar
- IDM 2041 Research Ethics & Scientific Communication
- BIOST 2041 Introduction to Statistical Methods I
- EPIDEM 2110 Principles of Epidemiology
- EPIDEM 2161 Methods of Infectious Disease Epi
- PUBHLT 2011 Essentials of Public Health
- PUBHLT 2022 Public Health Grand Rounds