EPIDEMIOLOGY, ScM

Master of Science (ScM) Degree Program
Ideal for individuals with strong science and mathematics skills with at least one year of research and work experience, the ScM in Epidemiology is a two-year, intensive research degree program that focuses on applying epidemiological and biostatistical methods to a variety of current public health issues. Successful applicants are those individuals who are motivated to use advanced quantitative methods to analyze public health information and use a translational approach to communicate results. Students select and specialize in one of the research tracks listed below and are expected to complete at least 64 credit units in epidemiology, biostatistics, and elective courses, pass a written comprehensive exam, produce a publishable-quality manuscript based on original research, and present their research during an annual poster symposium. Graduates from the ScM often continue to work in academic research upon graduation and many pursue PhD degrees in a variety of public health arenas after some years of work experience.

https://publichealth.jhu.edu/departments/epidemiology/programs

Academic Advising
Master’s students are each assigned a group academic adviser for terms one through three of the first year of the program. The Group Master Adviser is an academic adviser who meets with a group of advisees regularly to discuss academic issues, progress, development, and goals in the degree program.

The Group Master Adviser is a faculty member in the Department of Epidemiology but may/may not be in the advisee’s Track. At the beginning of the 4th term of the first year, the Track Director, with input from the student, will assign the student a thesis adviser. The thesis adviser may be a faculty member with a primary or joint appointment in the Department of Epidemiology. If the thesis adviser has a joint appointment in the Department, a faculty member with a primary appointment in the department must co-advice with the thesis adviser, and serve as the primary adviser of record.

All Master’s students are required to meet with their thesis adviser regularly. Students should work with their thesis advisers to develop a timeline for completing their thesis research by the required deadlines. Students are expected to begin thesis research in the summer after their first year.

Academic Year 2022-23
Due Dates for Summer Conferral (August 26, 2022)
JUNE 10, 2022
• All academic requirements for the degree (except for submission of the thesis) have been fulfilled
JUNE 17, 2022
• Appointment of Thesis Readers for has been submitted to the Office of Records and Registration
AUGUST 26, 2022
• Thesis Acceptance Letters have been submitted to the Office of Records and Registration

Due Dates for Fall Conferral (December 30, 2022)
OCTOBER 14, 2022
• All academic requirements for the degree (except for submission of the thesis) have been fulfilled
OCTOBER 28, 2022
• Appointment of Thesis Readers for has been submitted to the Office of Records and Registration
DECEMBER 16, 2022
• Thesis Acceptance Letters have been submitted to the Office of Records and Registration
• The Office of Records and Registration has received approval of submitted electronic copy of dissertation has received from the Sheridan Library

Due Dates for Spring Conferral (May 25, 2023)
FEBRUARY 10, 2023
• All academic requirements for the degree (except for submission of the thesis) have been fulfilled
MARCH 17, 2023
• Appointment of Thesis Readers for has been submitted to the Office of Records and Registration
May 5, 2023
• Thesis Acceptance Letters have been submitted to the Office of Records and Registration
• The Office of Records and Registration has received approval of submitted electronic copy of dissertation has received from the Sheridan Library

Degree Program Requirements
Course location and modality is found on the BSPH website (https://publichealth.jhu.edu/academics/course-directory/coursesection-numbers-explained/).

Residency / Registration Requirement
A minimum of 64 credits are required to complete either the MHS or ScM degree. The residency requirement is four consecutive terms of at least 16 credits each. Residency must be completed during the first year of the program. ScM degree programs require two years of full-time registration to complete the required coursework and thesis.

Non-Class Requirements
Track-Specific Activities Masters
Each Track holds journal clubs, research-in-progress meetings, and other activities, that those Track students are expected to attend (list included in this Student Handbook). These activities are opportunities to engage and interact with Track faculty, fellow students, and post-doctoral fellows, and to participate and present in the topic area of the Track. All masters’ students are expected to participate in their Track. If a student for some reason wishes to switch tracks during the course of their degree, they must schedule a meeting with the Senior Academic Program Manager, Frances Burman (FranBurman@jhu.edu (FranBurman@jhu.edu)) to ascertain whether a switch is feasible to still meet graduation requirements in time and to complete a formal form.
Quarterly Master’s Meetings
The Master’s Program Co-Directors host quarterly meetings with all of the first and second-year Master’s students. These meetings provide a forum to learn about academic policies and deadlines, for students to raise questions and concerns, and for all to hear the answers. All Master’s students are expected to attend quarterly group meetings.

Core Coursework (Required for All Epidemiology MHS and ScM Students)
The Masters Level Core Requirements are listed by year and term for all Epidemiology Master of Science students. To broaden perspective and to enhance the student’s capabilities for work in public health or disease-related fields, at least 12 credits of coursework are required in courses from at least one department outside the student’s primary department. At least 6 of these credits must be taken in the BSPH. Full-time students register for a minimum of 16 credits and a maximum of 22 credits each term.

Course location and modality is found on the BSPH website (https://publichealth.jhu.edu/academics/course-directory/courses-section-numbers-explained/).

Cells to Society Courses [CEPH Core Requirements]
A full list of courses and term offerings is located online (https://www.jhsph.edu/course-directory/cells-to-society-courses.html). Epidemiology degree students are required to complete these 8 of the 12 sessions. Each course is 0.5 credits and is offered only online. Many of these courses can be used as introductions to full-term courses offered in multiple modalities throughout the year.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PH.552.601</td>
<td>Foundational Principles of Public Health</td>
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</tr>
<tr>
<td>PH.552.603</td>
<td>The Role of Qualitative Methods and Science in Describing and Assessing a Population's Health</td>
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</tr>
<tr>
<td>PH.552.607</td>
<td>Essentials of Environmental Health</td>
<td>0.5</td>
</tr>
<tr>
<td>PH.552.608</td>
<td>Biologic, Genetic and Infectious Bases of Human Disease</td>
<td>0.5</td>
</tr>
<tr>
<td>PH.552.609</td>
<td>Psychological and Behavioral Factors That Affect A Population's Health</td>
<td>0.5</td>
</tr>
<tr>
<td>PH.552.610</td>
<td>The Social Determinants of Health</td>
<td>0.5</td>
</tr>
<tr>
<td>PH.552.611</td>
<td>Globalization and Population Health</td>
<td>0.5</td>
</tr>
<tr>
<td>PH.552.612</td>
<td>Essentials of One Health</td>
<td>0.5</td>
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Required Core Coursework (Subject to change)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>First Year</td>
<td></td>
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<tr>
<td>First Term</td>
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<tr>
<td>Summer Before Year 1</td>
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Online Incoming Epi Students 2020 Orientation includes:
Introduction to Online Learning
Sexual Harassment and Sexual Violence Prevention Training (Title IX)
Unconscious Bias Training

First Term

| PH.140.621 | Statistical Methods in Public Health I                  | 4       |
| or PH.140.651 | Methods in Biostatistics I           |         |
| PH.340.751 | Epidemiologic Methods 1                           | 5       |
| PH.340.860 | Current Topics in Epidemiologic Research          | 1       |

Select recommended and elective courses to total 16 credits per term 6

Second Term

| PH.140.622 | Statistical Methods in Public Health II                  | 4       |
| or PH.140.652 | Methods in Biostatistics II           |         |
| PH.340.752 | Epidemiologic Methods 2                           | 5       |
| PH.340.860 | Current Topics in Epidemiologic Research          | 1       |
| PH.550.865 | Public Health Perspectives on Research          | 2       |

Select recommended and elective courses to total 16 credits per term 4

Third Term

| PH.140.623 | Statistical Methods in Public Health III                  | 4       |
| PH.140.653 | Methods in Biostatistics III                        | 4       |
| PH.340.753 | Epidemiologic Methods 3                           | 5       |
| PH.340.860 | Current Topics in Epidemiologic Research          | 1       |

Select recommended and elective courses to total 16 credits per term 2

Fourth Term

| PH.140.624 | Statistical Methods in Public Health IV                  | 4       |
| or PH.140.654 | Methods in Biostatistics IV          |         |
| PH.340.723 | Epidemiologic Practice Methods for Population Health Research | 2       |
| PH.340.820 | Thesis Research Epidemiology (varies)                     | 1 - 3   |
| PH.340.860 | Current Topics in Epidemiologic Research          | 1       |

Select recommended and elective courses to total 16 credits per term 8

Department Comprehensive Examination
Pass Parts A&B - immediately following Fourth Term

<table>
<thead>
<tr>
<th>Credits</th>
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<tbody>
<tr>
<td>16-18</td>
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</table>

Second Year

First Term

| PH.340.820 | Thesis Research Epidemiology (with thesis adviser, credits variable) | 1 - 22   |

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<tr>
<th>Credits</th>
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<tbody>
<tr>
<td>1-22</td>
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Second Term

| PH.340.820 | Thesis Research Epidemiology (with thesis adviser, credits variable) | 1 - 22   |

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<th>Credits</th>
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<td>1-22</td>
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Third Term

| PH.340.820 | Thesis Research Epidemiology (with thesis adviser, credits variable) | 1 - 22   |

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<th>Credits</th>
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Fourth Term

| PH.340.820 | Thesis Research Epidemiology (with thesis adviser, credits variable) | 1 - 22   |

<table>
<thead>
<tr>
<th>Credits</th>
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<tbody>
<tr>
<td>1-22</td>
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</table>

Total Credits 68-154

May be waived if student holds MPH from a CEPH accredited program in past 10 yrs
Courses that meet the "Outside Track Requirement"

All students must complete one introductory topical epidemiology course outside of the chosen track. Choices below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PH.340.616</td>
<td>Epidemiology of Aging (Term 1)</td>
<td>3-4</td>
</tr>
<tr>
<td>PH.340.731</td>
<td>Principles of Genetic Epidemiology 1 (Term 1)</td>
<td></td>
</tr>
<tr>
<td>PH.340.682</td>
<td>Pharmacoepidemiology Methods (Term 2)</td>
<td></td>
</tr>
<tr>
<td>PH.330.603</td>
<td>Psychiatric Epidemiology (Term 2)</td>
<td></td>
</tr>
<tr>
<td>PH.340.624</td>
<td>Etiology, Prevention, and Control of Cancer (Term 2)</td>
<td></td>
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<tr>
<td>PH.340.627</td>
<td>Epidemiology of Infectious Diseases (Term 2)</td>
<td></td>
</tr>
<tr>
<td>PH.340.645</td>
<td>Introduction to Clinical Trials (Term 2)</td>
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<tr>
<td>PH.340.699</td>
<td>Epidemiology of Sensory Loss in Aging (Term 3)</td>
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<tr>
<td>PH.340.607</td>
<td>Introduction to Cardiovascular Disease Epidemiology (Term 3)</td>
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</tr>
<tr>
<td>PH.340.680</td>
<td>Environmental and Occupational Epidemiology (Term 4)</td>
<td></td>
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<tr>
<td>PH.380.664</td>
<td>Reproductive and Perinatal Epidemiology (Term 4)</td>
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<tr>
<td>PH.340.666</td>
<td>Foundations of Social Epidemiology (Term 4)</td>
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</tbody>
</table>

Total Credits: 3-4

DEPARTMENT-WIDE RECOMMENDED COURSES

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PH.340.860</td>
<td>Current Topics in Epidemiologic Research (Term 1-4, credits variable)</td>
<td>1</td>
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<tr>
<td>PH.340.770</td>
<td>Public Health Surveillance (Term 2)</td>
<td>3</td>
</tr>
<tr>
<td>PH.340.769</td>
<td>Professional Epidemiology Methods (Term 3)</td>
<td>4</td>
</tr>
<tr>
<td>PH.340.840</td>
<td>Special Studies and Research Epidemiology (Term 1-4, credits variable)</td>
<td>1-22</td>
</tr>
</tbody>
</table>

1 1 term, can be taken in any term 1 through 4
2 Recommended for all four terms during year 2

Recommended Courses for masters students in Cancer Epidemiology

[Terms and offerings change each year. Always check the course directory for the most up-to-date offerings]

Term 1: PH.340.616 Epidemiology of Aging 3 cr
        PH.340.731 Principles of Genetic Epidemiology 1 (Term 1) 3 cr
        PH.340.682 Pharmacoepidemiology Methods (Term 2) 3 cr
        PH.330.603 Psychiatric Epidemiology (Term 2) 3 cr
        PH.340.624 Etiology, Prevention, and Control of Cancer (Term 2) 3 cr
        PH.340.627 Epidemiology of Infectious Diseases (Term 2) 3 cr
        PH.340.645 Introduction to Clinical Trials (Term 2) 3 cr
        PH.340.699 Epidemiology of Sensory Loss in Aging (Term 3) 3 cr
        PH.340.607 Introduction to Cardiovascular Disease Epidemiology (Term 3) 3 cr
        PH.340.680 Environmental and Occupational Epidemiology (Term 4) 3 cr
        PH.380.664 Reproductive and Perinatal Epidemiology (Term 4) 3 cr
        PH.340.666 Foundations of Social Epidemiology (Term 4) 3 cr

Term 2: ME.510.706 Fundamentals of Cancer: Cause to Cure or PH.180.650 Fundamentals of Clinical Oncology for Public Health Practitioners
        PH.340.774 Advanced Theory and Methods in Epidemiology 4 cr
        PH.140.630 Introduction to Data Management 3 cr
        PH.140.632 Introduction to the SAS Statistical Package 3 cr
        PH.120.624 Cancer Biology 3 cr
        PH.380.664 Reproductive and Perinatal Epidemiology 4 cr
        PH.340.680 Environmental and Occupational Epidemiology 4 cr

Term 3: PH.180.640 Molecular Epidemiology and Biomarkers in Public Health
        PH.340.606 Methods for Conducting Systematic Reviews and Meta-Analyses 4 cr
        PH.340.694 Power and Sample Size for the Design of Epidemiological Studies I 1 cr

Term 4: PH.140.632 Introduction to the SAS Statistical Package 3 cr
        PH.340.680 Environmental and Occupational Epidemiology 4 cr
        PH.120.624 Cancer Biology 3 cr
        PH.380.664 Reproductive and Perinatal Epidemiology 4 cr

Cardiovascular and Clinical Epidemiology

Courses Required for masters students in Cardiovascular and Clinical Epidemiology

Required Courses for Students focusing in Cardiovascular Epidemiology

First Year

Students WITHOUT a background in biology or medicine must complete: PH.260.600 Introduction to the Biomedical Sciences (offered over the summer prior to enrollment) OR PH.550.630 Public Health Biology AND PH.340.855 SS/R: Biological Basis of Cardiovascular Disease Epidemiology AND PH.340.730 Assessment of Clinical Cardiovascular Disease (alternate years 3rd term)

Term 1: PH.340.871 Welch Center Research Seminar (2 terms required)
        PH.340.871 Welch Center Research Seminar (2 terms required)
        PH.340.645 Introduction to Clinical Trials

Term 2: PH.340.871 Welch Center Research Seminar (2 terms required)
        PH.340.645 Introduction to Clinical Trials
Epidemiology, ScM

PH.340.607 Introduction to Cardiovascular Disease Epidemiology

Term 4: PH.340.871 Welch Center Research Seminar (2 terms required)
PH.340.803 Advanced Topics in Cardiovascular Disease Epidemiology

Second Year
please consider recommended courses appropriate to augment your knowledge in fields of interest

Courses Required for masters students focusing in Clinical Epidemiology

First Year
Students WITHOUT a background in biology or medicine must complete: PH.260.600 Introduction to the Biomedical Sciences (offered over the summer prior to enrollment) OR PH.550.630 Public Health Biology

Term 1: PH.340.871 Welch Center Research Seminar (2 terms required)

Term 2: PH.340.871 Welch Center Research Seminar (2 terms required)
   PH.340.645 Introduction to Clinical Trials
   PH.340.620 Principles of Clinical Epidemiology

Term 3: PH.340.871 Welch Center Research Seminar (2 terms required)

Term 4: PH.340.871 Welch Center Research Seminar (2 terms required)

Second Year
please consider recommended courses appropriate to augment your knowledge in fields of interest

Courses Recommended for masters students in Cardiovascular and Clinical Epidemiology
[Terms and offerings change each year. Always check the course directory for the most up-to-date offerings]

Term 1: PH.340.687 Epidemiology of Kidney Disease 2
PH.340.731 Principles of Genetic Epidemiology 1  4
PH.340.616 Epidemiology of Aging 3 (alternates online and in-person every other year)

Term 2: PH.340.624 Etiology, Prevention, and Control of Cancer 4
PH.340.627 Epidemiology of Infectious Diseases 4

Term 3: PH.180.640 Molecular Epidemiology and Biomarkers in Public Health 4
PH.340.606 Methods for Conducting Systematic Reviews and Meta-Analyses* 4 *usually taken in Year 2

Term 4: PH.340.644 Epidemiology of Diabetes and Obesity 3

Skills Courses (can be taken Year 1 or later with commensurate progress in Biostats series)

Term 4: PH.340.600 Stata Programming (4th term, 2 credits) 2
Term 4: PH.140.632 Introduction to the SAS Statistical Package 3

Advanced Methods Courses (recommended in Year 2, review course catalogue for prerequisites)

Term 1: PH.140.641 Survival Analysis 3
PH.140.776 Statistical Computing 3
PH.340.660 Practical Skills in Conducting Research in Clinical Epidemiology and Investigation 3

Term 2: PH.340.717 Health Survey Research Methods 4
Term 3: PH.140.655 Analysis of Longitudinal Data 4
PH.140.664 Causal Inference in Medicine and Public Health 4

Courses recommended for masters students with a focus in Cardiovascular Epidemiology

Term 1: PH.140.651 Methods in Biostatistics I 4

Term 2: PH.140.652 Methods in Biostatistics II 4
PH.340.620 Principles of Clinical Epidemiology 2

Term 3: PH.140.653 Methods in Biostatistics III 4
Term 4: PH.140.654 Methods in Biostatistics IV 4

Courses recommended for masters students with a focus in Clinical Epidemiology

Term 2: PH.309.712 Assessing Health Status and Patient Outcomes 3

Term 3: PH.340.607 Introduction to Cardiovascular Disease Epidemiology 4
PH.340.730 Assessment of Clinical Cardiovascular Disease 2

Term 4: PH.340.803 Advanced Topics in Cardiovascular Disease Epidemiology 2
PH.340.855 SS/R: Biological Basis of Cardiovascular Disease Epidemiology 2 *
(Incoming students with a U.S. medical degree will be waived automatically. Other students who believe they may qualify for a waiver from the requirement based on their previous course work should consult with the track director)

Clinical Trials and Evidence Synthesis

Courses Required for masters students in Clinical Trials and Evidence Synthesis

First Year

Term 2: PH.340.645 Introduction to Clinical Trials 3

Term 3: PH.340.633 Data Management in Clinical Trials 3

Term 4: PH.340.648 Clinical Trials Management 3

Second Year

Term 3: PH.340.606 Methods for Conducting Systematic Reviews and Meta-Analyses 4
PH.140.655 Analysis of Longitudinal Data 4
Courses Recommended for masters students in Clinical Trials and Evidence Synthesis
[Terms and offerings change each year. Always check the course directory for the most up-to-date offerings]

Term 1:
- PH.140.651 Methods in Biostatistics I
- PH.221.722 Quality Assurance Management Methods for Developing Countries
- PH.340.653 Epidemiologic Inference in Outbreak Investigations
- PH.340.660 Practical Skills in Conducting Research in Clinical Epidemiology and Investigation
- PH.340.728 Advanced Methods for Design and Analysis of Cohort Studies
- PH.390.631 Principles of Drug Development
- PH.390.673 Ethical and Regulatory Issues in Clinical Research
- PH.317.600 Introduction to the Risk Sciences and Public Policy

Term 2:
- PH.140.630 Introduction to Data Management
- PH.140.652 Methods in Biostatistics II
- PH.340.717 Health Survey Research Methods
- PH.410.710 Concepts in Qualitative Research for Social and Behavioral Sciences

Term 3:
- PH.140.634 Non-Inferiority and Equivalence Clinical Trials
- PH.140.642 Design of Clinical Experiments
- PH.140.653 Methods in Biostatistics III
- PH.223.664 Design and Conduct of Community Trials
- PH.340.694 Power and Sample Size for the Design of Epidemiological Studies I
- PH.340.775 Measurement Theory and Techniques in Epidemiology
- PH.140.664 Causal Inference in Medicine and Public Health

Term 4:
- PH.140.654 Methods in Biostatistics IV
- PH.140.632 Introduction to the SAS Statistical Package
- PH.140.656 Multilevel Statistical Models in Public Health
- PH.221.616 Ethics of Public Health Practice in Developing Countries
- PH.223.705 Good Clinical Practice: A Vaccine Trials Perspective
- PH.224.691 Qualitative Data Analysis
- PH.390.675 Outcomes and Effectiveness Research
- Summer Inst PH.330.621 Mixed Methods for Research in Public Health

Environment Epidemiology
Course Required for masters students in Environmental Epidemiology
First Year
Term 4: PH.340.680 Environmental and Occupational Epidemiology

Courses recommended for masters students in Environmental Epidemiology
[Terms and offerings change each year. Always check the course directory for the most up-to-date offerings]

Term 1:
- PH.182.615 Airborne Particles
- PH.187.610 Public Health Toxicology
- PH.188.680 Fundamentals of Occupational Health
- PH.317.600 Introduction to the Risk Sciences and Public Policy

Term 2:
- PH.182.625 Principles of Occupational and Environmental Hygiene
- PH.317.610 Risk Policy, Management and Communication
- PH.340.624 Etiology, Prevention, and Control of Cancer
- PH.340.717 Health Survey Research Methods

Term 3:
- PH.180.601 Environmental Health
- PH.180.640 Molecular Epidemiology and Biomarkers in Public Health
- PH.317.605 Methods in Quantitative Risk Assessment

Term 4:
- PH.188.681 Onsite Evaluation of Workplace and Occupational Health Programs
- PH.317.615 Topics in Risk Assessment

Epidemiology of Aging
Course Required for masters students in Epidemiology of Aging
First Year
Term 1: PH.340.616 Epidemiology of Aging

Recommended Courses for Masters Students in Epidemiology of Aging
[Terms and offerings change each year. Always check the course directory for the most up-to-date offerings]

First Year
Term 1: PH.330.802 Seminar on Aging, Cognition and Neurodegenerative Disorders
Term 2: PH.140.641 Survival Analysis
Term 3: PH.340.620 Principles of Clinical Epidemiology
Term 4: PH.340.699 Epidemiology of Sensory Loss in Aging
++offered every other year

Second Year
Term 1: PH.330.657 Statistics for Psychosocial Research: Measurement
Term 2: PH.340.680 Advanced Methods for Design and Analysis of Cohort Studies
Term 3: PH.140.655 Analysis of Longitudinal Data

++offered every other year
**General Epidemiology and Methodology**

**Courses Required for masters students in General Epidemiology and Methodology**

**First Year**

- Term 1: PH.340.731 Principles of Genetic Epidemiology 1 4 (recommended for year 1 but may be taken in year 2, satisfies the out-of-track requirement as well)
- Term 2: PH.340.645 Introduction to Clinical Trials 3 (recommended for year 1 but may be taken in year 2)

**Second Year**

**CHOOSE AT LEAST TWO** of these 3 courses in PH research skills:

- Term 1: PH.340.660 Practical Skills in Conducting Research in Clinical Epidemiology and Investigation 3
- Term 2: PH.340.717 Health Survey Research Methods 4
- Term 3: PH.340.648 Clinical Trials Management 3

**Courses Recommended for Masters Students in General Epidemiology and Methodology**

[Terms and offerings change each year. Always check the course directory for the most up-to-date offerings]

**Master’s Students with a Methodology Focus:**

- Term 1: PH.330.657 Statistics for Psychosocial Research: Measurement 4
  - PH.340.646 Epidemiology and Public Health Impact of HIV and AIDS 4
  - PH.340.616 Epidemiology of Aging 3
  - PH.340.653 Epidemiologic Inference in Outbreak Investigations 3
- Term 2: PH.140.658 Statistics for Psychosocial Research: Structural Models 4
  - PH.183.631 Fundamentals of Human Physiology 4
  - PH.260.631 Immunology, Infection and Disease 3
  - PH.330.603 Psychiatric Epidemiology 3
  - PH.340.620 Principles of Clinical Epidemiology 2
  - PH.340.624 Etiology, Prevention, and Control of Cancer 4
  - PH.340.666 Foundations of Social Epidemiology* 3
  - PH.340.732 Principles of Genetic Epidemiology 2 3
  - PH.340.641 Healthcare Epidemiology 4
- Term 3: PH.140.640 Statistical Methods for Sample Surveys 3
  - PH.180.640 Molecular Epidemiology and Biomarkers in Public Health 4
  - PH.222.647 Nutrition Epidemiology 3
  - PH.224.690 Qualitative Research Theory and Methods 3
  - PH.309.616 Introduction to Methods for Health Services Research and Evaluation I 2
  - PH.340.607 Introduction to Cardiovascular Disease Epidemiology 4
  - PH.340.609 Concepts and Methods in Infectious Disease Epidemiology 3
  - PH.340.733 Principles of Genetic Epidemiology 3 3
- Term 4: PH.140.656 Multilevel Statistical Models in Public Health 4
  - PH.224.691 Qualitative Data Analysis 3
  - PH.309.617 Introduction to Methods for Health Services Research and Evaluation II 2
  - PH.340.677 Infectious Disease Dynamics: Theoretical and Computational Approaches 3

**Second Year courses:**

- Term 1: PH.340.728 Advanced Methods for Design and Analysis of Cohort Studies 5
- Term 2: PH.340.774 Advanced Theory and Methods in Epidemiology 4
- Term 3: PH.140.664 Causal Inference in Medicine and Public Health I 4
  - PH.140.655 Analysis of Longitudinal Data 4
  - PH.340.606 Methods for Conducting Systematic Reviews and Meta-Analyses 4

**Recommended statistical programming computing courses:**

- Term 1: PH.140.776 Statistical Computing 3
- Term 4: PH.140.632 Introduction to the SAS Statistical Package 3
  - PH.340.600 Stata Programming 2

**Master’s Students with a Pharmacoepidemiology and Drug Safety Focus:**

**Strongly Recommended courses for Masters Students with a Pharmacoepidemiology Focus:**

- Term 1: PH.317.600 Introduction to the Risk Sciences and Public Policy 4
  - PH.390.631 Principles of Drug Development 2
- Term 2: PH.317.610 Risk Policy, Management and Communication 3
- Term 3: PH.140.664 Causal Inference in Medicine and Public Health I 4
  - PH.340.684 Pharmacoepidemiology: Drug Utilization 3 (alternate year format)
  - PH.221.610 Pharmaceuticals Management for Under-Served Populations 3
- Term 4: PH.410.680 Social Ecological Approaches to Health Regimen Adherence in Chronic Conditions 3

**Recommended courses for Masters Students with a Pharmacoepidemiology Focus:**

- Term 1: PH.317.605 Methods in Quantitative Risk Assessment 4
- Term 4: PH.317.615 Topics in Risk Assessment 2
  
  the following courses are offered outside of BSPH and require interdivisional registration and instructor permission

- AS.410.651 Clinical Development of Drugs and Biologics 4
- AS.410.627 Translational Biotechnology: From Intellectual Property to Licensing 4
- ME.330.809 Analytic Methods for Clinical Pharmacology variable
- NR.110.508 Clinical Pharmacology 3

**Individualized Focus:**

Students designing their own educational programs should, in conjunction with their advisor, choose three to four graduate-level courses (taken for a letter grade) in their field from among the offerings
of the University in addition to taking the GEM Required courses listed above.

**Genetic Epidemiology**

**Courses Required for Masters Students in Genetic Epidemiology**

**First Year**

- **Term 1:** PH.340.731 Principles of Genetic Epidemiology 1 4
- **Term 2:** PH.340.732 Principles of Genetic Epidemiology 2 3
- **Term 3:** PH.340.733 Principles of Genetic Epidemiology 3 3
- **Term 4:** PH.340.734 Principles of Genetic Epidemiology 4: Emerging and Advanced Methods 2

**Second Year**

- **Term 1:** PH.120.602 Concepts of Molecular Biology (Pass/Fail, or Grade) 4

**Courses recommended for masters students in Genetic Epidemiology**

**Analytic Methods Courses (ideal for year 2):**

- **Term 1:** PH.140.641 Survival Analysis 3
  PH.140.651 Methods in Biostatistics I* 4
  PH.140.776 Statistical Computing 3
- **Term 2:** PH.140.638 Analysis of Biological Sequences 3
  PH.140.652 Methods in Biostatistics II 4
  PH.140.778 Advanced Statistical Computing 3
  PH.340.774 Advanced Theory and Methods in Epidemiology* 4
- **Term 3:** PH.140.644 Statistical Machine Learning: Methods, Theory, and Applications 4
  PH.140.653 Methods in Biostatistics III 4
  PH.140.655 Analysis of Longitudinal Data 4
- **Term 4:** PH.140.688 Statistics For Genomics 3

**Biology and Molecular Methods Courses:**

- **Term 1:** PH.260.611 Principles of Immunology I 4
- **Term 2:** PH.260.612 Principles of Immunology II 4
  PH.183.631 Fundamentals of Human Physiology 4 (*For non-physician trained students only)
- **Term 3:** PH.180.640 Molecular Epidemiology and Biomarkers in Public Health 4
- **Term 4:** PH.120.608 Gene Editing, therapy and Manipulation 3

**Topic-Specific Electives:**

- **Term 3:** PH.340.775 Measurement Theory and Techniques in Epidemiology 4
- **Term 4:** PH.330.619 Psychiatric Genomics 3
  PH.415.624 Ethical, Legal and Social Implications in Genetics and Genomics Over Time 3 (offered in alternate years)

**Infectious Disease Epidemiology**

**Courses Required for Masters Students in Infectious Disease Epidemiology**

**First Year**

- **Term 1:** PH.340.653 Epidemiologic Inference in Outbreak Investigations 3
- **Term 2:** PH.340.627 Epidemiology of Infectious Diseases 4
- **Term 3:** PH.340.609 Concepts and Methods in Infectious Disease Epidemiology 3

**Students must complete at least one course in each of the four disciplinary sections below. Additional courses serve as recommended courses.**

**Section one: General Electives: choose 1**

- **Term 1:** PH.340.646 Epidemiology and Public Health Impact of HIV and AIDS 4
  PH.340.641 Healthcare Epidemiology 4
- **Term 2:** PH.223.662 Vaccine Development and Application 4
- **Term 3:** PH.182.640 Food- and Water-Borne Diseases 3
  PH.223.663 Infectious Diseases and Child Survival 3
  PH.223.687 Vaccine Policy Issues 3
  PH.260.656 Malariaiology 4
  PH.340.612 Epidemiologic Basis for Tuberculosis Control 2
- **Term 4:** PH.223.682 Clinical and Epidemiologic Aspects of Tropical Diseases 4
  PH.223.689 Biologic Basis of Vaccine Development 3
  PH.223.705 Good Clinical Practice: A Vaccine Trials Perspective 4
  PH.340.651 Emerging Infections 2
  PH.380.761 Sexually Transmitted Infections in Public Health Practice 4
  PH.380.762 HIV Infection in Women, Children, and Adolescents 4

**Section two: Skills in Research: choose 1**

- **Term 1:** PH.340.660 Practical Skills in Conducting Research in Clinical Epidemiology and Investigation 3
- **Term 2:** PH.340.717 Health Survey Research Methods 4

**Section three: Biology and Pathogenesis of Disease: choose 1**

- **Term 1:** PH.260.623 Fundamental Virology 4
  PH.260.636 Evolution of Infectious Disease 4
  PH.340.654 Epidemiology and Natural History of Human Viral Infections 6
- **Term 3:** PH.260.627 Pathogenesis of Bacterial Infections 4
  PH.260.650 Vector Biology and Vector-Borne Diseases 3

**Section four: Immunology: choose one set (recommended to complete in year two)**

- **Term 1:** PH.260.611 Principles of Immunology I 4
  AND
- **Term 2:** PH.260.612 Principles of Immunology II 4
  *students requesting pass/fail for these two courses only must seek permission from their adviser and the track director

- **Term 2:** PH.260.631 Immunology, Infection and Disease 3

**Department Comprehensive Examination**

A two-day written departmental comprehensive examination is administered to all students enrolled in Epidemiology degree programs in
late May of the first academic year. All students are required to sit for the exam on the scheduled dates—no alternate exams will be offered.

By the time of the examination, students should have completed 64 credits (for four consecutive terms, e.g. one full year of residence), the required first-year coursework in their Track with a cumulative GPA of at least 2.75, and in these courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH.340.751</td>
<td>Epidemiologic Methods I</td>
<td>5</td>
</tr>
<tr>
<td>PH.340.752</td>
<td>Epidemiologic Methods II</td>
<td>5</td>
</tr>
<tr>
<td>PH.340.753</td>
<td>Epidemiologic Methods III</td>
<td>5</td>
</tr>
</tbody>
</table>

Select one of the following Biostatistics series: 16

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH.140.621</td>
<td>Statistical Methods in Public Health I</td>
<td></td>
</tr>
<tr>
<td>&amp; PH.140.622</td>
<td>and Statistical Methods in Public Health II</td>
<td></td>
</tr>
<tr>
<td>&amp; PH.140.623</td>
<td>and Statistical Methods in Public Health III</td>
<td></td>
</tr>
<tr>
<td>&amp; PH.140.624</td>
<td>and Statistical Methods in Public Health IV</td>
<td></td>
</tr>
<tr>
<td>PH.140.651</td>
<td>Methods in Biostatistics I</td>
<td></td>
</tr>
<tr>
<td>&amp; PH.140.652</td>
<td>and Methods in Biostatistics II</td>
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<td>&amp; PH.140.653</td>
<td>and Methods in Biostatistics III</td>
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<tr>
<td>&amp; PH.140.654</td>
<td>and Methods in Biostatistics IV</td>
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</tbody>
</table>

The first day of the exam (Part A) includes testing on the following topics:

- Knowledge and application of epidemiologic concepts and methods (and related biostatistics)
- History of epidemiology
- Contemporary issues in public health
- Research ethics

The second day of the exam (Part B) is Track-specific, and tests knowledge of concepts and methods presented in the required courses and activities for each Track, as well as the Department core courses as applied to the Track.

Students must pass both Part A and Part B of the comprehensive examination. Master’s students must attain at least a 70% on each Part A and Part B to pass. A repeat examination may be allowed but is not guaranteed. If a repeat is granted, it must be completed before starting the second academic year. Failure to pass one or both sections of the exams may result in dismissal from the master’s program or from the Department. For additional policies regarding the Comprehensive Exams, please see the next tab.

Master’s Thesis (ScM)

Master of Science (ScM) students must complete a thesis based on original research. The readers’ committee is comprised of the adviser and one additional University faculty member prior to beginning the thesis project (professor, scientist, lecturer, instructor of any rank). Upon completion, the thesis is submitted to these two readers for their approval. ScM students planning on a May graduation must adhere to all program deadlines. The School’s Policy and Procedures Memorandum (PPM) for the ScM degree program is available here (https://my.jhsph.edu/Resources/PoliciesProcedures/ppm/PolicyProcedureMemoranda/Forms/AllItems.aspx), “Academic_Programs_10_Master_of_Science_Degree_071417.” The thesis is a requirement for partial fulfillment of the ScM degree.

Master’s Thesis Expectations

Epidemiology ScM student theses will be evaluated in the following areas by both the faculty thesis adviser(s) and the second reader. In addition, the thesis adviser(s) will evaluate student quarterly progress detailed in point 5 below.

Each student must register for 4 terms of Thesis Research Epidemiology with their thesis adviser in their second year. The thesis adviser(s), in consultation with the thesis reader, each student will be evaluated on whether their thesis shows:

1. Their understanding of the current state of the knowledge about the public health problem studied for the thesis, as demonstrated by the student’s descriptions and discussions of:
   a. The descriptive epidemiology of the public health problem. For example, its prevalence and distribution in the population, and its risk factors (e.g., modifiable, non-modifiable, comorbidities, social, environmental risk factors, etc.).
   b. The biology, physiology, and natural history of the public health problem, if relevant.
   c. The contemporary questions about the public health problem, including new directions in research on the public health problem (including technology, diagnosis, and methodologic challenges).
   d. The impact of the public health problem in the real world, with specific discussions about sub-populations or vulnerable populations that are particularly affected by the problem.

2. The student’s ability to integrate and synthesize the current body of literature on the public health problem, is demonstrated by:
   a. Preparation of a comprehensive literature review (systematic review, if appropriate see separate document).
   b. Interpretation of findings from multiple research papers and understanding of the full body of research relevant to the public health problem.
   c. Interpretation of the student’s own findings within the context of the current body of literature.
   d. Use or evaluation of proper study design, measurement of exposures and/or outcomes, biases, and confounding, biostatistical methods, and application.
   e. Explanation and interpretation of epidemiologic findings for a non-epidemiologist audience.
   f. Identify next steps and future questions that need to be addressed.
   g. Articulation of how the student’s findings could be applied in order to affect or diminish the problem at a population (or sub-population) level.

3. The student’s ability to prepare a thesis that is:
   a. Logically structured and organized; and
   b. Includes figures that illustrate important findings, with proper formatting (e.g. legends, labeled axes, appropriate titles, etc.); and
   c. Includes tables that convey important findings, organized and formatted efficiently (e.g. appropriate titles, headings, footnotes, legends, etc.).

4. The student’s ability to write a thesis that is grammatically accurate, including:
   a. Correct punctuation and spelling; and
   b. Easily readable by epidemiologists; and
   c. Appropriately and adequately referenced citations; and
   d. The student’s own original work (please see Plagiarism modules).

5. The student’s thesis adviser will evaluate the student on student professionalism, documented by:

The student’s ability to write a thesis that is grammatically accurate, including:

- Logically structured and organized;
- Includes figures that illustrate important findings, with proper formatting (e.g. legends, labeled axes, appropriate titles, etc.);
- Includes tables that convey important findings, organized and formatted efficiently (e.g. appropriate titles, headings, footnotes, legends, etc.).
a. Keeping appointments with the thesis adviser and being on time.
b. Being prepared and organized at each meeting with the thesis adviser, which includes creating and sending an agenda before the meeting.
c. Demonstrating appropriately paced progress on the thesis research.
d. Preparing the thesis document.

The expectation is that the student will improve in all aspects of their research during the course of the thesis work and work will show growth across the year culminating in the final thesis.

**Master’s Poster Session**

All Master’s students are required to participate in the Master’s Poster Symposium held at the end of their 2nd year. Participation is a requirement for partial fulfillment of the ScM degree. Each student should prepare a 3'x4' portrait-oriented poster of their thesis work (no other work can be presented) and have the approval of the poster from their adviser(s) before presenting. Although the work done for the poster will represent the Master’s student's thesis, the adviser(s), and any other research colleagues, should be included as co-authors. In addition, any funding sources that supported the research directly or indirectly should be cited on the poster (in consultation with thesis adviser(s)). Additional guidelines for the creation of a scientific poster will be disseminated to students at the quarterly Master’s meetings. Students are expected to follow these guidelines.

Students should carefully proofread their posters prior to submitting them for printing. Students are welcome to utilize the printing service they wish, but two local recommendations are:

- https://phdposters.com (Campus Pick-up Available)
- FedEx Print & Ship / Carnegie Building Room #170
  600 N. Wolfe St.
  Baltimore, MD 21287
  410-502-7637
  usa5032@fedex.com

A poster title and abstract should be submitted to the Academic Program Coordinator (Justin Switzer) prior to the Master’s Poster Symposium for inclusion in the program. Attendees at the Master’s Poster Symposium include peers, staff, and faculty.

Students who will not graduate in May are still required to present a poster. This poster must be approved by their adviser(s) and presented to the Master’s Program Director at least three weeks prior to the date by which the Department must certify student eligibility for the award of degree to the School’s Office of Records and Registration. Students graduating in August or December must contact the Master’s Program Director by July 1 (August graduation) or November 1 (December graduation) to indicate their plans to graduate and determine a poster presentation date.

**The Policy and Procedures Manual for the Master Science**

The Department of Epidemiology reserves the right to augment the PPM (https://my.jhsph.edu/Resources/PoliciesProcedures/ppm/PolicyProcedureMemoranda/Academic_Programs_10_Master_of_Science_Degree_071417.pdf) for BSPH. The Admissions and Credentials Committee handles most policy concerns as described above. The Curriculum Committee handles exceptions to requirements.

**Comprehensive Examination Grading Policy**

The Departmental Written Comprehensive Examination is graded by the Department of Epidemiology faculty according to a rubric determined by the Comprehensive Examination Committee. Final results are distributed to students via CoursePlus by mid-July. Students who wish to view their exam should set up an appointment with the Senior Academic Coordinator, Ebony Moore (eamoore@jhu.edu).

Master’s students whose results fall below 70% are allowed to submit a written request for a re-grade of specific questions. Re-grade requests must include a justification for a change in points allocated for each question being contested; requests without appropriate justification will not be considered. Re-grade requests must have the adviser’s endorsement who must have reviewed and approved the student’s request. Re-grade requests are handled by the faculty on the Comprehensive Examination Committee. Adviser-approved requests can be e-mailed to the current year’s Comprehensive Examination Committee Chair and must include a copy to the adviser. For approved requests, a new score will be assigned for each question that is re-graded. This score may be equal to, greater than, or less than, the original score awarded and cannot be contested a second time.

Master’s students admitted to an Epidemiology PhD program may waive the PhD comprehensive exam if they pass (as a master’s student) at the doctoral level (75%) and matriculate within three years following graduating from a Johns Hopkins Bloomberg School of Public Health Epidemiology Master’s Degree.

**Comprehensive Examination Retake Policy**

Students who do not pass the Comprehensive Exam at the appropriate level for their degree program may be granted an opportunity for a retake in August following the May Exam. Students who do not pass the Comprehensive Exam at the appropriate level are not automatically granted a retake. To request a retake, students must submit an official request within two weeks of notification of the not passing grade. This request should include a detailed timeline and study plan, to make the case for passing a retake. This request and plan must be endorsed by and developed with the adviser. Retake requests are reviewed via the Department’s Admissions and Credentials Committee. Adviser-approved requests can be e-mailed to the current year’s Admissions and Credentials Committee Chairs and must include a copy to the adviser and Senior Academic Program Manager (Frances Burman). For approved requests, students are granted one retake only, and it must be in August immediately following the May Exam. A student cannot continue in the degree program without passing the Comprehensive Examination at the appropriate level, prior to the start of the second year.

**Recommendations for Special Studies versus Thesis Research**

Special Studies and Research in Epidemiology, PH.340.840.xx, is offered during terms 1, 2, 3, and 4. Thesis Research, PH.340.820.XX is offered terms S, 1, 2, 3, and 4.

**Special Studies and Research: PH.340.840.XX**

All first-year ScM students should take 1 credit special studies and research each term during terms 1-3.
The following list of activities may be approved for independent study or special studies and research and is not inclusive:

- Directed readings and discussion leading up to preparing for the research proposal,
- Literature searches and meta-analyses
- Secondary data analysis,
- Self-guided focused study on a particular methodology or a disease of interest

**Thesis Research: PH.340.820.XX**

Masters students take 340.820 once they begin working on their research thesis. Students should begin registering for thesis research during fourth term of the first year once their adviser selection is confirmed. ScM students must take a minimum of 2 credits of thesis research for two terms during their program.

**Calculating credits for a variable credit course**

- Students must remember that the 1 hour – in class, 2 hours – outside of class ratio still applies: e.g. Students should think about the time the faculty member will be involved in guiding them (see faculty contact hours below) as well as how much time the student uses to conduct outside readings and work.

**What constitutes Faculty Contact Hours**

- Individual one-on-one meetings
- Faculty revisions of writing projects (Faculty members spend a lot of time editing, proofreading, and otherwise providing written feedback to students.)
- Mentoring and networking preparation and discussion.
- Time spent in group settings with faculty mentors e.g. journal clubs or weekly "lab/group" meetings. Students should make every effort to attend the group meetings for their track and adviser.

**How to Register**

- Students must communicate their intent to register with and receive approval from the faculty mentor in writing, prior to registering for credits for the special studies or thesis research and include the content/activities to be conducted and the number of credits.
- Students may take 1-3 credits while taking a full load of courses.
- Students may take up to 8 credits per term while taking a partial load of courses with the approval of the faculty mentor.
- Students must meet with the faculty mentor before or during add/drop to discuss objectives.

**Adviser / Advisee Manual**

Each student in the Department is assigned an adviser and selects co-adviser(s) as they move through the program; Adviser(s) have the responsibility of serving as a guide and mentor. This manual is intended to guide the student and the faculty member(s) in making the adviser/advisee relationship as successful as possible.

This manual has two goals:

- To provide answers to questions that students frequently ask and,
- To provide guidance on how the student and adviser can interact most effectively

**Academic Advisers should:**

- Provide oversight of the student’s academic progress by:
  - Assisting in the selection of courses
  - Ensuring the student is meeting degree milestones in a timely manner
  - Being available for regular meetings with the student
  - Assessing and developing the student’s interests and abilities
  - Monitoring student progress in academic coursework through periodic examination of transcripts
  - Monitoring student progress in fieldwork
  - Writing letters of reference (given appropriate lead-time)
  - Assisting with grant preparation (doctoral students, given appropriate lead-time)
  - Referring students to the appropriate individuals or offices that provide academic support and/or resources
- Provide leadership in matters of academic integrity:
  - Being knowledgeable about ethical issues that pertain to academics, research, and practice
  - Helping students interpret and understand institutional policies and procedures regarding the responsible conduct of research
  - Discouraging students from circumventing institutional policies and procedures, and when confronted with such issues, directing students to appropriate institutional resources or contacts, avoiding actual or appearance of conflicts of interest
  - Respecting the confidentiality of students
- Encourage active participation in the greater community (department, school, university, local, state, national, international)

**STUDENTS MAY EXPECT THE FOLLOWING FROM THEIR ADVISER(S):**

- Advisers’ approval for course registrations, course changes, and pass/fail agreements, and on all reasonable petitions to the Admissions and Credentials Committee
- At least one meeting per term with the advisers
- Oversight of the student’s overall academic program and sensitivity to any academic difficulties
- Knowledge of and interest in the student’s career objectives
- Review of required and recommended courses for the track
- Assistance in designing a plan for the fulfillment of required courses and assistance with planning the course schedule for the year

Advising students is an integral part of faculty members’ responsibilities. Thus, students should not feel or be made to feel that they are imposing by asking for advice. Faculty members expect to be able to meet with students, although the students should be respectful of the faculty’s time by scheduling and respecting appointments. The responsibility for arranging meetings lies with the student. Students should not expect advisers to seek them out for needed appointments. The student remains obligated to schedule a meeting in order to assure that the adviser has reviewed the student’s schedule and to plan any special studies projects or thesis research as needed with the adviser before the registration period deadline.

**RIGHTS AND RESPONSIBILITIES OF THE ADVISER(S)**:

- To assist in determining the advisee’s educational goals and needs upon starting the program
- To serve as an educational and/or professional mentor for the student
• To maintain awareness of and sensitivity to the level of compatibility between the student advisee and the advisers in terms of academic, professional, and personal interests
• To facilitate a change of adviser or program, if deemed appropriate for the student
• To monitor the advisee’s overall academic program and be sensitive to signs of academic difficulty
• To provide guidance throughout the academic program
• To be sensitive to cultural, medical, legal, housing, visa, language, financial, or other personal problems experienced by the advisee and to be aware, sensitive, understanding, and supportive
• Advisers have the right to expect to be treated with respect and courtesy, to be notified in writing when a meeting must be canceled or rescheduled, to be consulted when students have questions or concerns about the research focus or progress, and to serve as team leader on the research team

RIGHTS AND RESPONSIBILITIES OF THE ADVISEE**:
• To arrange to meet with the adviser at least once each term, and observe registration and administrative deadlines
• To identify and develop professional career goals and interests
• To access and demonstrate knowledge of administrative policies and procedures and be familiar with the content in the Student Handbook
• To maintain the academic checklist and review it at meetings with the advisers
• Advisees have the right to expect to be treated with respect and courtesy, to be notified in writing when a meeting must be canceled or rescheduled, to be notified when advisers have questions or concerns about the research focus or progress, and to be granted the role of a team member on the research team

**Students and Faculty each have the right to request changes to the adviser/advisee relationship upon consultation with the Director of Graduate Education (Laura Camarata) without penalty.

Please review the CEPH Competencies located: https://e-nextcatalog.jhu.edu/public-health/ceph-requirements/index.html