

**Johns Hopkins Bloomberg  
School of Public Health**

**Department of  
Epidemiology**

# **2017-18 STUDENT HANDBOOK**

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**@JohnsHopkinsEPI**

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## **ADVISER / ADVISEE MANUAL**

# WELCOME FROM THE CHAIR

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Department of Epidemiology, Office of the Chair

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July/August 2017

Welcome to the Department of Epidemiology. As you no doubt will have repeatedly heard since you arrived in Baltimore, you have now joined the oldest and largest department of epidemiology in the world. We are very proud of our past accomplishments, our history, and the accomplishments of our talented students, faculty and alumni. We are even more excited about many of the new projects that are underway or under consideration. The 2017-2018 edition of our Department of Epidemiology Student Handbook introduces you to the Department and helps you to meet your educational goals and to have a productive and enjoyable year. As new students, you will be in residence for the Centennial of the Department (one of the founding departments of the School in 2019), so perhaps we can refer to you as the Centennial Cohort!

This Student Handbook complements the JHSPH Guidebook distributed by the School each year and it should be read along with the Guidebook and the School Catalog (which can be found in its complete form on-line on the School's website) to gain a full picture of the Department and the School. The Student Handbook summarizes the required and recommended courses for each of the eight academic tracks in the Department, the requirements for each of the degree programs offered by our Department, and other essential information you may need. Because the Student Handbook is revised annually, please be sure to use this 2017-2018 edition of the Handbook in planning and following your academic program in the Department; these are the "rules" that you should follow.

Students should also carefully read the listing of Competencies for Students on the intranet site. We have structured our educational programs around these competencies. Our curricula are developed with these competencies as guiding principles and the Department Written Comprehensive Examination that you will sit for at the conclusion of your first year of study is directed at testing the skills and knowledge described in these competencies. In addition, the Adviser/Advisee Manual in the Handbook is intended to facilitate this key point of interaction between students and faculty members.

Epidemiologic Methods 751-753, a core requirement for all master's and doctoral students in the Department, is our flagship series that we continue to evolve to reflect contemporary methods and challenges in epidemiologic research. Before you complete your degree, we strongly encourage you also to take the Professional Epidemiology Methods courses, which cover methods for modern public health practice.

The past decade has been an era of remarkable growth – in terms of faculty recruitment, admitted students and external funding of our research. The faculty of the Department remain very excited about the future of Epidemiology here at the Bloomberg School of Public Health, and we hope that you will join in our enthusiasm for the new challenges that lie ahead. As I complete my ninth year as Chair of the Department, I look forward to working with you to continually evaluate and improve our curriculum to prepare you for the new world out there!

I hope that your time in the Department will be enjoyable and rewarding, both educationally and personally. The faculty and staff of the Department are here to help you meet your educational and professional goals. I look forward to meeting, talking and getting to know each of you over the course of this academic year. Welcome!

A handwritten signature in blue ink that reads "David D. Celentano".

David D. Celentano, ScD, MHS

# DEPARTMENT MISSION AND GOALS

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## MISSION OF THE DEPARTMENT

The mission of the Department of Epidemiology is to improve the public's health by training epidemiologists and by advancing knowledge concerning the causes and prevention of disease and the promotion of health.

As the oldest autonomous academic department of epidemiology in the world, the Department of Epidemiology at the Johns Hopkins Bloomberg School of Public Health has maintained leadership in fulfilling this mission.

## GOALS OF THE DEPARTMENT

- Provide the highest quality education in epidemiology and thus prepare the next generation of epidemiologists
- Advance the science of epidemiology by developing new methods and applications
- Use epidemiologic methods to investigate the etiology of disease in human populations
- Use epidemiologic methods to evaluate health care delivery
- Develop methodology for translating epidemiologic research findings into clinical medicine
- Develop approaches for applying the findings of epidemiologic research in the formulation of public policy and to participate in formulating and evaluating the effects of such policy

The Department of Epidemiology is the oldest, and among the largest, in the world. Students gain proficiency in study designs, measurement and inference to illuminate the distribution and determinants of health states—as they identify and evaluate strategies for the prevention and control of disease in human populations.

Faculty continue to honor the legacy of excellence set forth in the early days of the department's founding—bolstering our growth, development and numerous contributions to the field.

A [history of the Department](#) as well as a complete list of [affiliated Centers](#) may be found on the Department's website.

# DEPARTMENT ORGANIZATION AND DIRECTORY

The Department is organized into two operations units – Administration (“Epi Admin”) and the Academic Support Core – and eight academic tracks.

## ADMINISTRATION (“EPI ADMIN”)

Administration is responsible for setting the academic and research vision for the department, policy-making, financial management, research administration, human resources and payroll, and degree program leadership.



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\*All rooms are located in the 615 N. Wolfe Street Building unless otherwise noted



## ACADEMIC SUPPORT CORE AND STUDENT FUNDING MANAGER

The Department of Epidemiology Academic Support Core is dedicated to the advancement of epidemiologic education and research for students and faculty through the coordination, management and dissemination of Departmental courses, programs and communications.

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## **EPIDEMIOLOGY TRACKS AND TRACK DIRECTORS**

The Tracks are the substantive and methodologic educational units of the Department. They comprise faculty, students, and fellows. The Department has eight tracks, each of which has a curriculum beyond the Department's core curriculum.

Tracks are led by Track Directors.

### **Cancer Epidemiology**

Provides in-depth training on cancer related population-based and clinical epidemiology research on cancer prevention, screening, natural history, and treatments, with a focus on breast, ovarian and prostate cancer. Students continue to conduct population-based cancer research and graduates have made successful transitions to positions in academia, government, and private sector organizations. The track benefits from its close links with the Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins, from an NCI-supported training grant in cancer epidemiology, prevention and control, and from several community and clinical cohort studies.

### **Cardiovascular and Clinical Epidemiology**

Focuses on the use of epidemiologic methods in clinical research and practice as well as interdisciplinary training on the epidemiology of cardiovascular disease. The program integrates knowledge on all aspects of the disease: biology, behavior, treatment, and prevention. Training emphasizes active participation in research and translational epidemiology using a collaborative approach, which is enhanced by close relationships between the Department of Epidemiology and clinical departments of the Johns Hopkins School of Medicine at the Johns Hopkins Hospital.

### **Clinical Trials and Evidence Synthesis**

Offers students a unique educational experience in clinical trial and evidence synthesis methodology. Methods are applied to a variety of clinical areas including respiratory-, eye- and infectious diseases, and mental health. Student-faculty discussions, journal clubs, research-in-progress meetings, seminars and active participation in research add to both the depth and breadth of the program.

### **Environmental Epidemiology**

Concentrates on the impact of environmental exposures on health and disease states in human populations. Environmental Epidemiology is a multidisciplinary activity that integrates epidemiological methods, assessment of environmental exposures and understanding of specific disease processes to identify the health consequences of environmental exposures. Environmental Epidemiology provides basic information for risk assessment, risk communication, and environmental health policy decisions and has a central role in identifying, implementing and evaluating strategies for the prevention and control of environmental exposures. Training in Environmental Epidemiology emphasizes active participation in large population research projects, with close collaborations across the School and with national and international collaborators.

### **Epidemiology of Aging**

Focuses on the determinants of physical and cognitive health, disease, and function in older adults. Offers multidisciplinary training in methods and theories needed for the study of older populations. Strong ties exist with several multi-departmental training grants and programs. This training program also is connected to numerous large research projects.

## **General Epidemiology and Methodology**

Offers research and training opportunities in pharmacoepidemiology, social epidemiology, advanced epidemiologic methods and statistical epidemiology, and many other contemporary areas in epidemiology. Training can be individualized or customized.

## **Genetic Epidemiology**

Focuses on the study of genetic and environmental factors, and their interaction in disease and normal variation. Emphasis is on understanding the methodology and approach to designing, executing and analyzing genetic studies. Training is broad-based and collaborative and encourages participation in research from faculty in the Johns Hopkins Bloomberg School of Public Health, the Institute of Genetic Medicine, and the School of Medicine.

## **Infectious Disease Epidemiology**

Provides training in the fundamentals of infectious disease epidemiology with an eye towards preparing graduates to work in teaching, research and practice. The program emphasizes principles and methods that can be used to understand the dynamics and control of transmissible diseases caused by all classes of organisms. The curriculum builds on the faculty's extensive and diverse experience researching and combatting infectious diseases in domestic and international settings ranging from hospital acquired infections, to neglected tropical diseases, to sexually transmitted infections.

## TRACK DIRECTORS

Track Directors are responsible for the track-specific curriculum and educational activities, including required and elective courses, journal club, research in progress, and Track-specific seminars, among other activities.



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# DEGREE PROGRAMS IN EPIDEMIOLOGY

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# DOCTORAL PROGRAMS (PhD and ScD)

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August, 2017

Dear Incoming Doctoral Students,

Welcome to the Department of Epidemiology in the Johns Hopkins Bloomberg School of Public Health! We, the Doctoral program co-Directors, on behalf of all of our Faculty and current students, are extremely excited to meet you and start off our 2017-2018 academic year with you! Each incoming class represents new interests, vision, and motivation to keep public health a priority for our world. Together, we want to make this a great training experience! Below is some important information to start off the year. In addition, we strongly encourage you to attend quarterly doctoral student meetings with us, organized by your doctoral student representatives, so that we can ensure a strong line of communication, discuss important policies, announce exciting opportunities, track major program milestones, and address your questions related to the doctoral program.

This section of the Student Handbook provides information on the requirements and the timelines for milestones for the Doctor of Philosophy and Doctor of Science degrees. In addition to being familiar with the Student Handbook, please confirm that you have completed the required tasks outlined in the CoursePlus website 2017-2018 Incoming Epi Students 2017, and the readings for your associated Track.

You will be assigned an Academic Adviser to guide you in designing an academic program to meet your goals. Meet with your Adviser regularly, including for approval of your course registrations. With your Adviser, consider selecting a formal co-Adviser to provide additional mentorship.

The first year of your doctoral program is focused primarily on coursework, including epidemiology methods and introductory topical epidemiology courses. You will also get to know your fellow Department doctoral students very well during the 1<sup>st</sup> Year Doctoral Seminar series, led by senior faculty. During the 4<sup>th</sup> term of Year 1, register for special studies with your Adviser. During your meetings, begin to identify opportunities to actively participate in epidemiologic research and discuss ideas for your dissertation research topic. During Year 2, you will develop and refine your dissertation research proposal as part of the three term Doctoral Seminar series (340.863.01) and 4<sup>th</sup> term Problems in the Design of Epidemiologic Studies: Proposal Development and Critique course (340.715.01).

As doctoral students, you have many opportunities beyond formal coursework to develop and enhance your knowledge and skills as you move toward a career as an epidemiologist. The Department hosts the Friday Epidemiology Seminar series, which feature luminaries from the field of epidemiology and "late breaking" presentations from our faculty on their research. Our doctoral students also present their dissertation proposal seminars, and when possible, their dissertation defense seminars, as part of this seminar series. You will receive course credit for attending this seminar as part of the Current Topics in Epidemiologic Research course (340.860.01). Each Track also hosts a journal club and research-in-progress meetings in which both students and faculty actively participate. The Friday Seminar series and the track-specific activities are excellent settings in which to learn about ongoing research, develop and refine your own research questions, prepare for the Department Written Comprehensive Examination (end of Year 1), and engage with faculty and your peers. As you will soon learn, the Department and the School offer many other seminars, volunteer and interest groups, and research opportunities. The Department also encourages doctoral students to get involved in community engagement in Baltimore around relevant and timely public health topics. See the Student Handbook to learn more about this activity, which you can take for academic credit as part of a Special Studies.

Your Academic Adviser, Track Director, Doctoral Student Representatives are resources for you. The Academic Program Manager, Ms. Frances Burman ([FranBurman@jhu.edu](mailto:FranBurman@jhu.edu)), and Director of Graduate Studies, Laura Camarata ([lcamarata@jhu.edu](mailto:lcamarata@jhu.edu)), can also assist with questions about required coursework, paperwork, dissertation guidelines, and timelines. Please feel free to also reach out to us, your Doctoral Program Directors with any questions, feedback, or concerns during your time training with us! Again, welcome to the program.

We look forward to a successful year of learning together!

Warmest Regards,

A handwritten signature in blue ink that reads "Anne F. Rositch".

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## DOCTOR OF PHILOSOPHY AND DOCTOR OF SCIENCE PROGRAMS

**Doctor of Philosophy (PhD)** and **Doctor of Science (ScD)** degree programs begin in late August/early September. These degrees are designed for students with at least 2 years of relevant work experience or relevant professional skills and require at least 2 years of coursework, followed by an average of 2 years of research towards a doctoral dissertation (also referred to as a thesis on official forms and committees). Doctoral degree programs target students with specific career goals in public health research, teaching, and/or leadership.

**PhD** and **ScD** students focus on the creation of new and innovative knowledge through their research. Training is offered through a core methodologic sequence with the addition of more focused courses in specialized areas. Students are expected to tailor their curricula, working with their advisers to create a comprehensive plan of study and research. PhD and ScD theses must be based on original research, worthy of publication, and approved by the Department and a committee of thesis (dissertation) readers. PhD and ScD students must also be engaged in primary data collection as a component of their dissertation research or embedded in other research during their training here.

PhD and ScD programs require that students:

- Complete at least 64 credits of coursework with a cumulative 3.0 GPA (B or higher average);
- Successfully pass the Department comprehensive examination;
- Complete the teaching assistantship (TA) curriculum, including serving as a TA in 3 departmental courses;
- Present a doctoral proposal seminar in the Department;
- Pass the Departmental Oral Examination;
- Pass the Schoolwide Preliminary Oral Examination,
- Fulfill the primary data collection requirement
- Develop and conduct independent research culminating in a doctoral dissertation in an approved format;
- Present their dissertation research in a final seminar (open to the public);
- Successfully defend their dissertation during the Final Oral Examination.

Students work closely with their advisers and Thesis Advisory Committee to develop their research questions and design their projects to address those questions and to conduct the dissertation research.

The application deadline for the PhD and ScD degree programs in Epidemiology is December 1.

## ACADEMIC ADVISING

Doctoral students are each assigned an academic adviser in their first year of the program. The adviser is a faculty member with a primary appointment in the Department of Epidemiology (typically in the same Track as the advisee.) The adviser has the responsibility of assisting the student in designing an academic program that meets the student's goals within the framework of the requirements of the Department and School. The adviser guides the student to appropriate resources and research opportunities. The adviser is the first point of contact in resolving academic problems and concerns. Students are encouraged to also identify a co-adviser.

In the first year, advisers and advisees should communicate at least once per term. The student bears the responsibility of consulting the adviser when necessary and arranging periodic appointments, even if there are no specific concerns. Course registrations must be approved by the adviser prior to the start of the registration period for each term.

In the 4<sup>th</sup> term of the first year, doctoral students register for special studies with their advisers to begin developing research questions and projects. Doctoral students may find that their dissertation research interests align with other Department faculty in the same or different Track. If so, in consultation with the adviser, the student may officially change advisers without penalty (see [Academic Policies and Procedures section](#) of this Student Handbook for steps on how to change advisers). Doctoral students are also encouraged to work with their adviser to select a co-adviser, typically a junior or early mid-rank faculty member whose substantive area and/or methodologic research interests aligns with the student's research interests. Co-advisers do not need to be in the same Track as the advisee. Primary advisers serve on the doctoral Thesis Advisory Committee, and will serve as one of the examiners for the advisee's Departmental Oral Examination, Preliminary School-wide Oral Examination, and Final Oral Examination. Co-advisers serve on the doctoral Thesis Advisory Committee but not on the examinations, but should be consulted on all aspects of the dissertation (thesis) research. Some doctoral students, in consultation with their adviser, select a co-adviser from another department of the School, School of Medicine, or elsewhere at Johns Hopkins University to enrich their academic and research experience.

Per School policy, faculty members on the professorial track (assistant, associate, or full professor) are eligible and expected to advise doctoral students. Faculty members on the scientist track (assistant, associate, or senior scientist) may co-advise doctoral students but may not serve as the primary adviser.

See the [Advisor/Advisee Manual section](#) of this Student Handbook for additional information on the adviser/advisee relationship.

## REQUIREMENTS

### *Residency*

A minimum of 64 credits are required to complete the doctoral degree. The residency requirement (registered by four consecutive terms of at least 16 credits each) must be completed during the first year of the program. The residency requirement may be waived by the Department if the student completes a Masters program at the School and then matriculates into the doctoral program within 12 months of the first term of the academic year that follows his/her completion of the Masters degree requirements.

### *Track-Specific Activities*

Each Track holds journal clubs, research in progress meetings, and other activities that Track students are expected to attend ([list](#) included in this Student Handbook). All doctoral students are expected to participate in these activities that are opportunities to engage and interact with Track faculty and fellow students and post-doctoral fellows, and to participate and present in the topic area of the Track.



## **Quarterly Doctoral Meetings**

Doctoral students and the Doctoral Program Directors meet quarterly. The agenda is developed by the Epidemiology Student Organization (ESO) doctoral student representative in consultation with the Directors. All doctoral students are expected to attend these meetings. These meetings provide a forum to learn about academic policies and deadlines, and for students to raise questions and concerns and for all to hear the answers.

## **Academic Ethics Requirement**

All doctoral students must enroll in 550.860.82 Academic & Research Ethics during the first term of enrollment at JHSPH.

## **Responsible Conduct of Research Requirement**

The Responsible Conduct of Research course is required for all doctoral students. Doctoral students who are supported by a National Institutes of Health (NIH) training grant, career development award (individual or institutional), research education grant, or dissertation research grant (including D43, D71, F05, F30, F31, F32, F33, F34, F37, F38, K01, K02, K05, K07, K08, K12, K18, K22, K23, K24, K25, K26, K30, K99/R00, KL1, KL2, R36, T15, T32, T34, T35, T36, T37, T90/R90, TL1, TU2, and U2R) must repeat this in-person requirement every 4 years.

This requirement can be met by completing either of the following two courses:

- 550.600 Responsible Conduct of Research (1<sup>st</sup> term)  
or
- 306.665 Research Ethics and Integrity (3<sup>rd</sup> term)

## **Avoiding Plagiarism Course Requirement**

All incoming PhD and ScD students are required to successfully complete the online module, Avoiding Plagiarism at JHU. The module takes, on average, one hour to complete but can take up to 3-4 hours. The course can be accessed multiple times. All students are required to complete this online course by the end of their first term enrolled. When completed, students will receive a certificate of completion. Students must send a copy of the certificate to the Academic Program Manager, Ms. Fran Burman, at [franburman@jhu.edu](mailto:franburman@jhu.edu), with their name and "Avoiding Plagiarism Certificate" in the subject line of the email.

For instructions and to enroll in the course, please visit [link](#) (JHED login required):

[www.library.jhu.edu/files/avoidplaginstruct.pdf](http://www.library.jhu.edu/files/avoidplaginstruct.pdf)

## **Academic Coursework**

A minimum of 64 credits are required for the doctoral degree. To broaden perspective and to enhance the student's capabilities for work in public health or disease-related fields, at least 18 credits of coursework are required in courses from at least 2 other departments outside the student's primary department. At least 9 of these credits must be taken at JHSPH. Students who have completed a master's degree here at Johns Hopkins Bloomberg School of Public Health, and are continuing into the doctoral program, must complete 18 new credits outside of Epidemiology, in at least two different departments of the school AND complete 18 credits within the department of epidemiology, all for letter grades. Full-time students should register for a minimum of 16 credits and a maximum of 22 credits each term.

## Core Coursework (REQUIRED for all PhD and ScD students)

### Doctoral Students Required Core Coursework

#### Summer Before Year 1

	Credits
340.994.81 Incoming Epidemiology Students Orientation includes: Introduction to Online Learning Sexual Harrassment and Sexual Violence Prevention Training Avoiding Plagiarism	0

#### Year 1

##### First Term

	Credits
<a href="#">140.621.02</a> Statistical Methods in Public Health I or	4
<a href="#">140.651</a> Methods in Biostatistics	4
<a href="#">340.853</a> First Year Epidemiology Doctoral Seminar	1
<a href="#">340.751</a> Epidemiologic Methods I	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	1

##### Second Term

	Credits
<a href="#">140.622.02</a> Statistical Methods in Public Health II or	4
<a href="#">140.652</a> Methods in Biostatistics II	4
<a href="#">340.752</a> Epidemiologic Methods II	5
<a href="#">340.853</a> First Year Epidemiology Doctoral Seminar	1
<a href="#">340.860</a> Current Topics in Epidemiologic Research	1
<a href="#">550.865</a> Public Health Perspectives in Research*	2

\* may be waived if student holds MPH from a CEPH accredited program in past 10 yrs

##### Third Term

	Credits
<a href="#">140.623.02</a> Statistical Methods in Public Health III or	4
<a href="#">140.653</a> Methods in Biostatistics III	4
<a href="#">340.753</a> Epidemiologic Methods III	5
<a href="#">340.853</a> First Year Epidemiology Doctoral Smeinar	1
<a href="#">340.860</a> Current Topics in Epidemiologic Research	1

### Fourth Term

		<b>Credits</b>
<a href="#">140.624</a>	Statistical Methods in Public Health IV	4
	or	
<a href="#">140.654</a>	Methods in Biostatistics IV	4
<a href="#">340.840</a>	Special Studies and Research Epidemiology w/ adviser	variable
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	1

\*\* Please add recommended and elective courses to total 16 credits per term.

### Department Comprehensive Examination

passed Parts A&B- immediately following Fourth Term

### Year 2

		<b>Credits</b>
<a href="#">340.840</a>	Special Studies & Research w/ primary course instructor - <a href="#">TA Curriculum</a>	1

### First Term

		<b>Credits</b>
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	3

### Second Term

		<b>Credits</b>
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	3

### Third Term

		<b>Credits</b>
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	3

### Fourth Term

		<b>Credits</b>
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	1
<a href="#">340.715</a>	Problems in the Design of Epidemiologic Studies: Proposal Development and Critique	5

### **ADDITIONAL CORE REQUIREMENT**

ONE introductory topical epidemiology course outside of chosen track. Choices below:

<b>Term</b>			<b>Credits</b>
1	<a href="#">340.616</a>	Epidemiology of Aging	3
1	<a href="#">340.731</a>	Principles of Genetic Epidemiology 1	4
2	<a href="#">340.682</a>	Pharmacoepidemiology and Methods	3
2	<a href="#">330.603</a>	Psychiatric Epidemiology	3
2	<a href="#">340.624</a>	Etiology, Prevention, and Control of Cancer	4
2	<a href="#">340.627</a>	Epidemiology of Infectious Diseases	4
2	<a href="#">340.645</a>	Introduction to Clinical Trials	3
2	<a href="#">340.666</a>	Foundations of Social Epidemiology	3
3	<a href="#">340.607</a>	Introduction to Cardiovascular Disease Epidemiology	4
4	<a href="#">340.680</a>	Environmental and Occupational Epidemiology	4
4	<a href="#">380.664</a>	Reproductive and Perinatal Epidemiology	4

### **SCHOOLWIDE REQUIREMENT**

<b>Term</b>			<b>Credits</b>
1	<a href="#">550.600</a>	Responsible Conduct of Research or	1
3	<a href="#">306.665</a>	Research Ethics and Integrity: US and International Issues	3

\*\* Please add recommended and elective courses to total 16 credits per term.

### **RECOMMENDED COURSES**

<b>Term</b>			<b>Credits</b>
2	<a href="#">340.770.01</a>	Public Health Surveillance	3
2	<a href="#">340.774</a>	Advanced Theory and Methods In Epidemiology	4
3	<a href="#">306.665</a>	Research Ethics & Integrity: US & International Issues	3
3	<a href="#">340.769</a>	Professional Epidemiology Methods	4
1-4*	<a href="#">340.840</a>	Special Studies & Research Epidemiology - <a href="#">Community Engagement</a>	variable

\* 1 term, can be taken in any term 1 through 4

## Additional Coursework by Track (Doctoral)

### Doctoral Students Cancer Epidemiology Required Coursework

#### Summer Before Year 1

	Type	Credits
340.994.81 Incoming Epidemiology Students Orientation includes: Introduction to Online Learning Sexual Harassment and Sexual Violence Prevention Training Avoiding Plagiarism	Core	0

#### Year 1

##### First Term

	Type	Credits
<a href="#">140.621.02</a> Statistical Methods in Public Health I or <a href="#">140.651</a> Methods in Biostatistics I	Core	4
<a href="#">340.853</a> First Year Epidemiology Doctoral Seminar	Core	1
<a href="#">340.751</a> Epidemiologic Methods I	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.860</a> Academic and Research Ethics at JHSPH	Core	0
<a href="#">340.731</a> Principles of Genetic Epidemiology I* <i>*(satisfies the topical epidemiology course requirement)</i>	Track	4

##### Second Term

	Type	Credits
<a href="#">140.622.02</a> Statistical Methods in Public Health II or <a href="#">140.652</a> Methods in Biostatistics II	Core	4
<a href="#">340.752</a> Epidemiologic Methods II	Core	5
<a href="#">340.853</a> First Year Epidemiology Doctoral Seminar	Core	1
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.865</a> Public Health Perspectives in Research* <i>*may be waived if student holds MPH from a CEPH accredited program in past 10 yrs</i>	Core	2
<a href="#">340.624</a> Etiology, Prevention and Control of Cancer	Track	4
<a href="#">340.732</a> Principles of Genetic Epidemiology II	Track	3

##### Third Term

	Type	Credits
<a href="#">140.623.02</a> Statistical Methods in Public Health III or <a href="#">140.653</a> Methods in Biostatistics III	Core	4
<a href="#">340.753</a> Epidemiologic Methods III	Core	5
<a href="#">340.853</a> First Year Epidemiology Doctoral Seminar	Core	1
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1

**Fourth Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">140.624</a>	Statistical Methods in Public Health IV	Core	4
	or		
<a href="#">140.654</a>	Methods in Biostatistics IV		4
<a href="#">340.840</a>	Special Studies and Research Epidemiology w/ adviser	Core	variable
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1

\*\* Please add recommended and elective courses to total 16 credits per term.

**Department Comprehensive Examination**

passed Parts A&B- immediately following Fourth Term

**Year 2**

			<b>Credits</b>
<a href="#">340.840</a>	Special Studies & Research w/ primary course instructor - <a href="#">TA Curriculum</a>		1

**First Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	Core	3
ME510.706	Fundamentals of Cancer: Cause to Cure *School of Medicine Course	Track	

**Second Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	Core	3
ME510.706	Fundamentals of Cancer: Cause to Cure *School of Medicine Course	Track	

**Third Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	Core	3
<a href="#">180.640</a>	Molecular Epidemiology and Biomarkers in Public Health	Track	4

**Fourth Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.715</a>	Problems in the Design of Epidemiologic Studies: Proposal Development and Critique	Core	5

**CORE REQUIREMENT**

ONE introductory topical epidemiology course outside of chosen track.

*(Cancer Epidemiology Track requires all students take 340.731, and this satisfies the ONE introductory topical epidemiology course requirement)*

<b>Term</b>			<b>Credits</b>
1	<a href="#">340.731</a>	Principles of Genetic Epidemiology 1	4

**SCHOOLWIDE REQUIREMENT**

<b>Term</b>			<b>Credits</b>
1	<a href="#">550.600</a>	Responsible Conduct of Research	1
		or	
3	<a href="#">306.665</a>	Research Ethics and Integrity: US and International Issues	3

\*\* Please add recommended and elective courses to total 16 credits per term.

\* **School of Medicine courses run longer than School of Public Health Courses the required SOM courses may run across 2 JHSPH terms**

## Cancer Epidemiology Doctoral Student Recommended Coursework

### CORE RECOMMENDED COURSES

- 340.770 Public Health Surveillance (2<sup>nd</sup> term)
- 306.665 Research Ethics and Integrity: US and International Issues (3<sup>rd</sup> term)
- 340.769 Professional Epidemiology Methods (3<sup>rd</sup> term)
- 340.774 Advanced Theory and Methods in Epidemiology (2<sup>nd</sup> term, after Year 1)
- 340.840 Special Studies – Community Engagement

### TRACK RECOMMENDED COURSES

- Doctoral students are encouraged to take the Methods in Biostatistics series (140.651, 140.652, 140.653 and 140.654). This series may be taken in the second year after taking the Statistical Methods in Public Health series (140.621, 140.622, 140.623 and 140.624) in the first year.
- 340.660 Practical Skills in Conducting Research in Clinical Epidemiology and Investigation (1<sup>st</sup> term)
- 340.696 Spatial Analysis I: ArcGIS (1<sup>st</sup> term)
- 340.728 Advanced Methods for the Design and Analysis of Cohort Studies (1<sup>st</sup> term)
- 340.774 Advanced Theory and Methods in Epidemiology (2<sup>nd</sup> term, after Year 1)
- 140.630 Introduction to Data Management (2<sup>nd</sup> term)
- 180.650 Fundamentals of Clinical Oncology for Public Health Practitioners (2<sup>nd</sup> term)
- 330.603 Psychiatric Epidemiology (2<sup>nd</sup> term)
- 340.645 Introduction to Clinical Trials (2<sup>nd</sup> term)
- 340.666 Foundations of Social Epidemiology (2<sup>nd</sup> term, offered every other year)
- 340.682 Pharmacoepidemiology Methods (2<sup>nd</sup> term)
- 340.697 Spatial Analysis II: Spatial Data Technologies (2<sup>nd</sup> term)
- 140.655 Analysis of Longitudinal Data (3<sup>rd</sup> term)
- 140.664 Causal Inference in Medicine and Public Health I (3<sup>rd</sup> term in person; 4<sup>th</sup> term online)
- 340.606 Systematic Reviews and Meta-Analysis (3<sup>rd</sup> term)
- 340.694 Power and Sample Size for the Design of Epidemiological Studies (3<sup>rd</sup> term)
- 140.632 Introduction to the SAS Statistical Package (4<sup>th</sup> term)
- 140.656 Multilevel Statistical Models in Public Health (4<sup>th</sup> term)
- 340.616 Epidemiology of Aging (1<sup>st</sup> term)
- 340.644 Epidemiology of Diabetes and Obesity (4<sup>th</sup> term)
- 340.600 Stata Programming (4<sup>th</sup> term)
- 340.680 Environmental and Occupational Epidemiology (4<sup>th</sup> term)
- 380.664 Reproductive and Perinatal Epidemiology (4<sup>th</sup> term)

### *SUMMER INSTITUTE COURSE:*

*Department students may register for Summer Institute courses for an additional tuition fee*

- 340.724.11 Global Cancer Epidemiology



## Doctoral Students

### Cardiovascular and Clinical Epidemiology Required Coursework

#### Summer Before Year 1

	<b>Credits</b>
340.994.81 Incoming Epidemiology Students Orientation includes: Introduction to Online Learning Sexual Harassment and Sexual Violence Prevention Training Avoiding Plagiarism	0

#### Year 1

##### First Term

	<b>Type</b>	<b>Credits</b>
<a href="#">140.621.02</a> Statistical Methods in Public Health I or	Core	4
<a href="#">140.651</a> Methods in Biostatistics I		4
<a href="#">340.853</a> First Year Epidemiology Doctoral Seminar	Core	1
<a href="#">340.751</a> Epidemiologic Methods I	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.860</a> Academic and Research Ethics at JHSPH	Core	0
<a href="#">340.871.01</a> Welch Center Research Seminar <i>students are required to take 2 terms of WCRS in yr 1; most take it all 4 terms</i>	Track	1

#### **Students without background in biology or medicine:**

<a href="#">260.600.01</a> Introduction to the Biomedical Sciences* or	Track	4
<a href="#">550.630.01</a> Public Health Biology		4

*\*offered during summer (last two weeks of August) before 1st term as either an 8-week online course (260.600.81) or 2-week in-person course (260.600.01). Counts towards 1st term credits; registrants must indicate this course on their FIRST term registrations, NOT their summer term.*

##### Second Term

	<b>Type</b>	<b>Credits</b>
<a href="#">140.622.02</a> Statistical Methods in Public Health II or	Core	4
<a href="#">140.652</a> Methods in Biostatistics II		4
<a href="#">340.752</a> Epidemiologic Methods II	Core	5
<a href="#">340.853</a> First Year Epidemiology Doctoral Seminar	Core	1
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.865</a> Public Health Perspectives in Research** <i>**may be waived if student holds MPH from a CEPH accredited program in past 10 yrs</i>	Core	2
<a href="#">340.871.01</a> Welch Center Research Seminar	Track	1
<a href="#">340.645.01</a> Introduction to Clinical Trials	Track	3

#### **Clinical Epi Students only**

<a href="#">340.620.01</a> Principles of Clinical Epidemiology	Track	2
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**Third Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">140.623.02</a>	Statistical Methods in Public Health III	Core	4
	or		
<a href="#">140.653</a>	Methods in Biostatistics III	Core	4
<a href="#">340.753</a>	Epidemiologic Methods III	Core	5
<a href="#">340.853</a>	First Year Epidemiology Doctoral Seminar	Core	1
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.871.01</a>	Welch Center Research Seminar	Track	1

**Cardiovascular Disease students only**

<a href="#">340.607</a>	Introduction to Cardiovascular Disease Epidemiology	Track	4
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**Fourth Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">140.624</a>	Statistical Methods in Public Health IV	Core	4
	or		
<a href="#">140.654</a>	Methods in Biostatistics IV		4
<a href="#">340.840</a>	Special Studies and Research Epidemiology w/ adviser	Core	variable
<a href="#">340.871.01</a>	Welch Center Research Seminar	Track	1

**Cardiovascular Disease students only**

<a href="#">340.803</a>	Advanced Topics in Cardiovascular Disease Epidemiology	Track	2
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**Cardiovascular Disease students without a background in medicine**

<a href="#">340.855</a>	Biological Basis of Cardiovascular Disease Epidemiology	Track	2
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\*\* Please add recommended and elective courses to total 16 credits per term.

**Department Comprehensive Examination**

passed Parts A&B- immediately following Fourth Term

**Year 2**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.840</a>	Special Studies & Research w/ primary course instructor- <a href="#">TA Curriculum</a>	Core	1

**First Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	Core	3

Second Term			
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		Type	Credits
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	Core	3

Third Term			
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		Type	Credits
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	Core	3

**Cardiovascular Disease students without a background in medicine**

<a href="#">340.730</a>	Assessment of Clinical Cardiovascular Disease	Track	2
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Fourth Term			
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		Type	Credits
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.715</a>	Problems in the Design of Epidemiologic Studies: Proposal Development and Critique	Core	5

**ADDITIONAL CORE REQUIREMENT**

ONE introductory topical epidemiology course outside of chosen track. Choices below:

Term			Credits
1	<a href="#">340.616</a>	Epidemiology of Aging	3
1	<a href="#">340.731</a>	Principles of Genetic Epidemiology 1	4
2	<a href="#">340.682</a>	Pharmacoepidemiology and Methods	3
2	<a href="#">330.603</a>	Psychiatric Epidemiology	3
2	<a href="#">340.624</a>	Etiology, Prevention, and Control of Cancer	4
2	<a href="#">340.627</a>	Epidemiology of Infectious Diseases	4
2	<a href="#">340.645</a>	Introduction to Clinical Trials	3
2	<a href="#">340.666</a>	Foundations of Social Epidemiology	3
4	<a href="#">340.680</a>	Environmental and Occupational Epidemiology	4
4	<a href="#">380.664</a>	Reproductive and Perinatal Epidemiology	4

**SCHOOLWIDE REQUIREMENT**

Term			Credits
1	<a href="#">550.600</a>	Responsible Conduct of Research	1
		or	
3	<a href="#">306.665</a>	Research Ethics and Integrity: US and International Issues	3

\*\* Please add recommended and elective courses to total 16 credits per term.

## Cardiovascular and Clinical Epidemiology Doctoral Student Recommended Coursework

### CORE RECOMMENDED COURSES

- 340.770 Public Health Surveillance (2<sup>nd</sup> term)
- 306.665 Research Ethics and Integrity: US and International Issues (3<sup>rd</sup> term)
- 340.769 Professional Epidemiology Methods (3<sup>rd</sup> term)
- 340.774 Advanced Theory and Methods in Epidemiology (2<sup>nd</sup> term, after Year 1)
- 340.840 Special Studies – Community Engagement

### TRACK RECOMMENDED COURSES

All doctoral students in the Cardiovascular and Clinical Epidemiology Track:

*Topical Courses (no prerequisites required, can be taken Year 1 or later)*

- 340.687 Epidemiology of Kidney Disease (1<sup>st</sup> term, 2 credits)
- 340.731 Principles of Genetic Epidemiology (1<sup>st</sup> term, 4 credits)
- 340.624 Etiology, Prevention and Control of Cancer (2<sup>nd</sup> term, 4 credits)
- 340.627 Epidemiology of Infectious Diseases (2<sup>nd</sup> term, 4 credits)
- 180.640 Molecular Epidemiology and Biomarkers in Public Health (3<sup>rd</sup> term, 4 credits)
- 340.606 Systematic Reviews and Meta-Analysis (3<sup>rd</sup> term, 6 credits) [usually taken in Year 2]
- 340.616 Epidemiology of Aging (1<sup>st</sup> term, 3 credits)
- 340.644 Epidemiology of Diabetes and Obesity (4<sup>th</sup> term, 3 credits)

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

- 140.632 Introduction to the SAS Statistical Package (4<sup>th</sup> term, 3 credits)
- 340.600 Stata Programming (4<sup>th</sup> term, 2 credits)

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

- 140.641 Survival Analysis (1<sup>st</sup> term, 3 credits)
- 140.776 Statistical Computing (1<sup>st</sup> term, 3 credits)
- 340.660 Practical Skills in Conducting Research in Clinical Epidemiology and Investigation (1<sup>st</sup> term, 3 credits)
- 340.728 Advanced Methods for the Design and Analysis of Cohort Studies (1<sup>st</sup> term, 4 credits)
- 340.774 Advanced Theory and Methods in Epidemiology (2<sup>nd</sup> term, 4 credits)
- 340.717 Health Survey Research Methods (2<sup>nd</sup> term, 4 credits)
- 140.655 Analysis of Longitudinal Data (3<sup>rd</sup> term, 4 credits)
- 140.664 Causal Inference in Medicine and Public Health I (3<sup>rd</sup> term in-person, 4<sup>th</sup> term online, 4 credits)

Doctoral students with a focus in Cardiovascular Epidemiology:

- 140.651 Methods in Biostatistics I (1<sup>st</sup> term, 4 credits)
- 140.652 Methods in Biostatistics II (2<sup>nd</sup> term, 4 credits)
- 140.653 Methods in Biostatistics III (3<sup>rd</sup> term, 4 credits)
- 140.654 Methods in Biostatistics IV (4<sup>th</sup> term, 4 credits)
- 340.620 Principles of Clinical Epidemiology (2<sup>nd</sup> term, 2 credits)

Doctoral students with a focus in Clinical Epidemiology:

- 340.607 Introduction to Cardiovascular Disease Epidemiology (3<sup>rd</sup> term, 4 credits)
- 340.803 Advanced Topics in Cardiovascular Disease Epidemiology (4<sup>th</sup> term, offered every other year, 2 credits)
- \*Recommended courses for students without a background in medicine:
  - 340.730 Assessment of Clinical Cardiovascular Disease (3<sup>rd</sup> term, offered every other year, 2 credits)
  - 340.855 Biological Basis of Cardiovascular Disease (4<sup>th</sup> term, offered every other year, 2 credits)

\* 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

## Doctoral Students

### Clinical Trials and Evidence Synthesis Required Coursework

#### Summer Before Year 1

	<b>Credits</b>
340.994.81 Incoming Epidemiology Students Orientation includes: Introduction to Online Learning Sexual Harassment and Sexual Violence Prevention Training Avoiding Plagiarism	0

#### Year 1

#### First Term

	<b>Type</b>	<b>Credits</b>
<a href="#">140.621.02</a> Statistical Methods in Public Health I or	Core	4
<a href="#">140.651</a> Methods in Biostatistics I		4
<a href="#">340.853</a> First Year Epidemiology Doctoral Seminar	Core	1
<a href="#">340.751</a> Epidemiologic Methods I	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.860</a> Academic and Research Ethics at JHSPH	Core	0

#### Second Term

	<b>Type</b>	<b>Credits</b>
<a href="#">140.622.02</a> Statistical Methods in Public Health II or	Core	4
<a href="#">140.652</a> Methods in Biostatistics II		4
<a href="#">340.752</a> Epidemiologic Methods II	Core	5
<a href="#">340.853</a> First Year Epidemiology Doctoral Seminar	Core	1
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.865</a> Public Health Perspectives in Research* <i>*may be waived if student holds MPH from a CEPH accredited program in past 10 yrs</i>	Core	2
<a href="#">340.645</a> Introduction to Clinical Trials	Track	3

#### Third Term

	<b>Type</b>	<b>Credits</b>
<a href="#">140.623.02</a> Statistical Methods in Public Health III	Core	4
<a href="#">140.653</a> Methods in Biostatistics III		4
<a href="#">340.753</a> Epidemiologic Methods III	Core	5
<a href="#">340.853</a> First Year Epidemiology Doctoral Seminar	Core	1
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">340.633</a> Data Management in Clinical Trials	Track	3

**Fourth Term**

		Type	Credits
<a href="#">140.624</a>	Statistical Methods in Public Health IV	Core	4
	or		
<a href="#">140.654</a>	Methods in Biostatistics IV		4
<a href="#">340.840</a>	Special Studies and Research Epidemiology w/ adviser	Core	variable
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.648</a>	Clinical Trials Management	Track	3

\*\* Please add recommended and elective courses to total 16 credits per term.

**Department Comprehensive Examination**

passed Parts A&B- immediately following Fourth Term

**Year 2**

		Type	Credits
<a href="#">340.840</a>	Special Studies & Research w/ primary course instructor - <a href="#">TA Curriculum</a>	Core	1

**First Term**

		Type	Credits
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	Core	3

**Second Term**

		Type	Credits
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	Core	3

**Third Term**

		Type	Credits
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	Core	3
<a href="#">140.655</a>	Analysis of Longitudinal Data	Track	4
<a href="#">340.606</a>	Systematic Reviews and Meta-Analysis	Track	6

**Fourth Term**

		Type	Credits
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.715</a>	Problems in the Design of Epidemiologic Studies: Proposal Development and Critique	Core	5

**ADDITIONAL CORE REQUIREMENT**

ONE introductory topical epidemiology course outside of chosen track. Choices below:

<b>Term</b>			<b>Credits</b>
1	<a href="#">340.616</a>	Epidemiology of Aging	3
1	<a href="#">340.731</a>	Principles of Genetic Epidemiology 1	4
2	<a href="#">340.682</a>	Pharmacoepidemiology and Methods	3
2	<a href="#">330.603</a>	Psychiatric Epidemiology	3
2	<a href="#">340.624</a>	Etiology, Prevention, and Control of Cancer	4
2	<a href="#">340.627</a>	Epidemiology of Infectious Diseases	4
2	<a href="#">340.666</a>	Foundations of Social Epidemiology	3
3	<a href="#">340.607</a>	Introduction to Cardiovascular Disease Epidemiology	4
4	<a href="#">340.680</a>	Environmental and Occupational Epidemiology	4
4	<a href="#">380.664</a>	Reproductive and Perinatal Epidemiology	4



## **Clinical Trials and Evidence Synthesis Epidemiology Doctoral Student Recommended Coursework**

### **CORE RECOMMENDED COURSES**

- 340.770 Public Health Surveillance (2<sup>nd</sup> term)
- 306.665 Research Ethics and Integrity: US and International Issues (3<sup>rd</sup> term)
- 340.769 Professional Epidemiology Methods (3<sup>rd</sup> term)
- 340.774 Advanced Theory and Methods in Epidemiology (2<sup>nd</sup> term, after Year 1)
- 340.840 Special Studies – Community Engagement

### **TRACK RECOMMENDED COURSES**

- 140.633 Biostatistics in Medical Product Regulation (1<sup>st</sup> term)
- 140.641 Survival Analysis (1<sup>st</sup> term)
- 140.651 Methods in Biostatistics I (1<sup>st</sup> term)
- 221.722 Quality Assurance Management Methods for Developing Countries (1<sup>st</sup> term)
- 223.672 Data Management Methods in Health (1<sup>st</sup> term, 4<sup>th</sup> term)
- 223.705 Clinical Vaccine Trials & Good Clinical Practice (GCP) (1<sup>st</sup> term, 4<sup>th</sup> term)
- 317.600 Introduction to the Risk Sciences & Public Policy (1<sup>st</sup> term, 3<sup>rd</sup> term)
- 340.660 Practical Skills in Planning, Organizing and Conducting Clinical Research in Epidemiology (1<sup>st</sup> term)
- 340.728 Advanced Methods for the Design and Analysis of Cohort Studies (1<sup>st</sup> term)
- 390.631 Principles of Drug Development (1<sup>st</sup> term)
- 390.673 Ethical & Regulatory Issues in Clinical Research (1<sup>st</sup> term)
- 140.630 Introduction to Data Management (2<sup>nd</sup> term)
- 140.652 Methods in Biostatistics II (2<sup>nd</sup> term)
- 340.717 Health Survey Research Methods (2<sup>nd</sup> term)
- 410.710 Concepts in Qualitative Research for Social and Behavioral Sciences (2<sup>nd</sup> term)
- 140.642 Design of Clinical Experiments (3<sup>rd</sup> term)
- 140.653 Methods in Biostatistics III (3<sup>rd</sup> term)
- 140.664 Causal Inference in Medicine and Public Health (3<sup>rd</sup> term, 4<sup>th</sup> term online)
- 140.885 Non-Inferiority and Equivalence Trials (3<sup>rd</sup> term)
- 223.664 Design & Conduct of Community Trials (3<sup>rd</sup> term)
- 224.690 Qualitative Research Theory and Methods (3<sup>rd</sup> term)
- 340.684 Pharmacoepidemiology: Drug Utilization (3<sup>rd</sup> term)
- 340.694 Power & Sample Size for the Design of Epidemiologic Studies (3<sup>rd</sup> term)
- 140.654 Methods in Biostatistics IV (4<sup>th</sup> term)
- 140.632 Introduction to the SAS Statistical Package (4<sup>th</sup> term)
- 140.656 Multilevel Statistical Models in Public Health (4<sup>th</sup> term)
- 221.616 Ethics of Public Health Practice in Developing Countries (4<sup>th</sup> term)
- 224.691 Qualitative Data Analysis (4<sup>th</sup> term)
- 340.653 Epidemiologic Inference in Outbreak Investigations (4<sup>th</sup> term)
- 390.675 Comparative Effectiveness & Outcomes Research (4<sup>th</sup> term)
- 330.621 Mixed Methods in Mental Health Services Research (Summer term)

*SUMMER INSTITUTE COURSES:*

*Department students may register for Summer Institute courses for an additional tuition fee*

- 340.674 Comparative Effectiveness Research: Emulating a Target Trial Using Observational Data
- 340.676 Bayesian Adaptive Trials

*CERTIFICATE:*

Track students may be interested in the Certificate in Clinical Trials

<http://www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-and-non-degree-students/clinical-trials.html>.

## Doctoral Students

### Environmental Epidemiology Required Coursework

#### Summer Before Year 1

	<b>Credits</b>
340.994.81 Incoming Epidemiology Students Orientation includes: Introduction to Online Learning Sexual Harassment and Sexual Violence Prevention Training Avoiding Plagiarism	0

#### Year 1

##### First Term

	<b>Type</b>	<b>Credits</b>
<a href="#">140.621.02</a> Statistical Methods in Public Health I or	Core	4
<a href="#">140.651</a> Methods in Biostatistics I		4
<a href="#">340.853</a> First Year Epidemiology Doctoral Seminar	Core	1
<a href="#">340.751</a> Epidemiologic Methods I	Core	5
<a href="#">340.840</a> Special Studies and Research Epidemiology	Core	1
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.860</a> Academic and Research Ethics at JHSPH	Core	0

##### Second Term

	<b>Type</b>	<b>Credits</b>
<a href="#">140.622.02</a> Statistical Methods in Public Health II or	Core	4
<a href="#">140.652</a> Methods in Biostatistics II		4
<a href="#">340.752</a> Epidemiologic Methods II	Core	5
<a href="#">340.853</a> First Year Epidemiology Doctoral Seminar	Core	1
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.865</a> Public Health Perspectives in Research*	Core	2

*\*may be waived if student holds MPH from a CEPH accredited program in past 10 yrs*

##### Third Term

	<b>Type</b>	<b>Credits</b>
<a href="#">140.623.02</a> Statistical Methods in Public Health III or	Core	4
<a href="#">140.653</a> Methods in Biostatistics III		4
<a href="#">340.753</a> Epidemiologic Methods III	Core	5
<a href="#">340.853</a> First Year Epidemiology Doctoral Seminar	Core	1
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1

**Fourth Term**

		Type	Credits
<a href="#">140.624</a>	Statistical Methods in Public Health IV	Core	4
	or		
<a href="#">140.654</a>	Methods in Biostatistics IV		4
<a href="#">340.840</a>	Special Studies and Research Epidemiology w/ adviser	Core	variable
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.680</a>	Environmental and Occupational Epidemiology	Track	4

\*\* Please add recommended and elective courses to total 16 credits per term.

**Department Comprehensive Examination**

passed Parts A&B- immediately following Fourth Term

**Year 2**

		Type	Credits
<a href="#">340.840</a>	Special Studies & Research w/ primary course instructor - <a href="#">TA Curriculum</a>	Core	1

**First Term**

		Type	Credits
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	Core	3

**Second Term**

		Type	Credits
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	Core	3

**Third Term**

		Type	Credits
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	Core	3

**Fourth Term**

		Type	Credits
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.715</a>	Problems in the Design of Epidemiologic Studies: Proposal Development and Critique	Core	5

### **ADDITIONAL CORE REQUIREMENT**

ONE introductory topical epidemiology course outside of chosen track. Choices listed below.

<b>Term</b>			<b>Credits</b>
1	<a href="#">340.616</a>	Epidemiology of Aging	3
1	<a href="#">340.731</a>	Principles of Genetic Epidemiology 1	4
2	<a href="#">340.682</a>	Pharmacoepidemiology and Methods	3
2	<a href="#">330.603</a>	Psychiatric Epidemiology	3
2	<a href="#">340.624</a>	Etiology, Prevention, and Control of Cancer	4
2	<a href="#">340.627</a>	Epidemiology of Infectious Diseases	4
2	<a href="#">340.645</a>	Introduction to Clinical Trials	3
2	<a href="#">340.666</a>	Foundations of Social Epidemiology	3
3	<a href="#">340.607</a>	Introduction to Cardiovascular Disease Epidemiology	4
4	<a href="#">380.664</a>	Reproductive and Perinatal Epidemiology	4

### **SCHOOLWIDE REQUIREMENT**

<b>Term</b>			<b>Credits</b>
1	<a href="#">550.600</a>	Responsible Conduct of Research or	1
3	<a href="#">306.665</a>	Research Ethics and Integrity: US and International Issues	3

\*\* Please add recommended and elective courses to total 16 credits per term.

## Environmental Epidemiology Doctoral Student Recommended Coursework

### CORE RECOMMENDED COURSES

- 340.770 Public Health Surveillance (2<sup>nd</sup> term)
- 306.665 Research Ethics and Integrity: US and International Issues (3<sup>rd</sup> term)
- 340.769 Professional Epidemiology Methods (3<sup>rd</sup> term)
- 340.774 Advanced Theory and Methods in Epidemiology (2<sup>nd</sup> term, after Year 1)
- 340.840 Special Studies – Community Engagement

### TRACK RECOMMENDED COURSES

- 187.610 Public Health Toxicology (1<sup>st</sup> term)
- 188.680 Fundamentals of Occupational Health (1<sup>st</sup> term)
- 317.600 Introduction to the Risk Sciences and Public Policy (1<sup>st</sup> term)
- 182.625 Principles of Occupational and Environmental Hygiene (2<sup>nd</sup> term)
- 317.610 Risk Policy, Management and Communications (2<sup>nd</sup> term)
- 340.624 Etiology, Prevention & Control of Cancer (2<sup>nd</sup> term)
- 340.717 Health Survey Research Methods (2<sup>nd</sup> term)
- 180.601 Environmental Health (3<sup>rd</sup> term)
- 180.640 Molecular Epidemiology and Biomarkers in Public Health (3<sup>rd</sup> term)
- 317.605 Methods in Quantitative Risk Assessment (3<sup>rd</sup> term)
- 182.615 Airborne Particles (4<sup>th</sup> term)
- 183.641 Health Effects of Indoor and Outdoor Air Pollution (4<sup>th</sup> term)
- 188.681 Occupational Health (4<sup>th</sup> term)
- 317.615 Topics in Risk Assessment (4<sup>th</sup> term)

## Doctoral Students Epidemiology of Aging Required Coursework

### Summer Before Year 1

	Type	Credits
340.994.81 Incoming Epidemiology Students Orientation includes: Introduction to Online Learning Sexual Harassment and Sexual Violence Prevention Training Avoiding Plagiarism	Core	0

### Year 1

#### First Term

	Type	Credits
<a href="#">140.621.02</a> Statistical Methods in Public Health I or	Core	4
<a href="#">140.651</a> Methods in Biostatistics		4
<a href="#">340.853</a> First Year Epidemiology Doctoral Seminar	Core	1
<a href="#">340.751</a> Epidemiologic Methods I	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.860</a> Academic and Research Ethics at JHSPH	School	0
<a href="#">340.616</a> Epidemiology of Aging	Track	3

#### Second Term

	Type	Credits
<a href="#">140.622.02</a> Statistical Methods in Public Health II or	Core	4
<a href="#">140.652</a> Methods in Biostatistics II		4
<a href="#">340.752</a> Epidemiologic Methods II	Core	5
<a href="#">340.853</a> First Year Epidemiology Doctoral Seminar	Core	1
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.865</a> Public Health Perspectives in Research*	Core	2

*\* may be waived if student holds MPH from a CEPH accredited program in past 10 years*

#### Third Term

	Type	Credits
<a href="#">140.623.02</a> Statistical Methods in Public Health III or	Core	4
<a href="#">140.653</a> Methods in Biostatistics III		4
<a href="#">340.753</a> Epidemiologic Methods III	Core	5
<a href="#">340.853</a> First Year Epidemiology Doctoral Seminar	Core	1
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1

**Fourth Term**

			<b>Credits</b>
<a href="#">140.624</a>	Statistical Methods in Public Health IV or	Core	4
<a href="#">140.654</a>	Methods in Biostatistics IV		4
<a href="#">340.840</a>	Special Studies and Research Epidemiology w/ adviser	Core	variable
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1

\*\* Please add recommended and elective courses to total 16 credits per term.

**Department Comprehensive Examination**

passed Parts A&B- immediately following Fourth Term

**Year 2**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.840</a>	Special Studies & Research w/ primary course instructor - <a href="#">TA Curriculum</a>	Core	1

**First Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	Core	3

**Second Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	Core	3
<a href="#">340.774</a>	Advanced Theory and Methods In Epidemiology	Track	4

**Third Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	Core	3

**Fourth Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.715</a>	Problems in the Design of Epidemiologic Studies: Proposal Development and Critique	Core	5



### **ADDITIONAL CORE REQUIREMENT**

ONE introductory topical epidemiology course outside of chosen track. Choices below:

<b>Term</b>			<b>Credits</b>
1	<a href="#">340.731</a>	Principles of Genetic Epidemiology 1*	4
2	<a href="#">340.624</a>	Etiology, Prevention, and Control of Cancer*	4
2	<a href="#">340.645</a>	Introduction to Clinical Trials*	3
3	<a href="#">340.607</a>	Introduction to Cardiovascular Disease Epidemiology*	4
2	<a href="#">340.627</a>	Epidemiology of Infectious Diseases	4
2	<a href="#">340.682</a>	Pharmacoepidemiology and Methods	3
2	<a href="#">330.603</a>	Psychiatric Epidemiology	3
2	<a href="#">340.666</a>	Foundations of Social Epidemiology	3
4	<a href="#">340.680</a>	Environmental and Occupational Epidemiology	4
4	<a href="#">380.664</a>	Reproductive and Perinatal Epidemiology	4

*\*The Epidemiology of Aging Track recommends these outside topical epidemiology courses as most appropriate choices to fulfill the Core Requirement*

### **SCHOOLWIDE REQUIREMENT**

<b>Term</b>			<b>Credits</b>
1	<a href="#">550.600</a>	Responsible Conduct of Research or	1
3	<a href="#">306.665</a>	Research Ethics and Integrity: US and International Issues	3

\*\* Please add recommended and elective courses to total 16 credits per term.

## Epidemiology of Aging Doctoral Student Recommended Coursework

### CORE RECOMMENDED COURSES

- 340.770 Public Health Surveillance (2<sup>nd</sup> term)
- 306.665 Research Ethics and Integrity: US and International Issues (3<sup>rd</sup> term)
- 340.769 Professional Epidemiology Methods (3<sup>rd</sup> term)
- 340.840 Special Studies – Community Engagement

### TRACK RECOMMENDED COURSES

#### *STRONGLY RECOMMENDED:*

- 330.802 Seminar on Aging, Cognition & Neurodegenerative Disorders (All 4 terms)
- 309.605 Health Issues for Aging Populations (Year 1, 1<sup>st</sup> term)
- 309.607 Innovations in Health Care of Aging Populations (Year 1, 2<sup>nd</sup> term)
- 330.657 Statistics for Psychosocial Research: Measurement (After Year 1, 1<sup>st</sup> term)
- 140.658 Statistics for Psychosocial Research: Structural Models (After Year 1, 2<sup>nd</sup> term)
- 340.620 Principles of Clinical Epidemiology (2<sup>nd</sup> term)
- 140.655 Analysis of Longitudinal Data (After Year 1, 3<sup>rd</sup> term)
- 260.665 Biological Basis of Aging (3<sup>rd</sup> term)
- 140.656 Multilevel Statistical Models in Public Health (After Year 1, 4<sup>th</sup> term)
- 330.618 Mental Health in Later Life (4<sup>th</sup> term)

#### *RECOMMENDED:*

- 140.641 Survival Analysis (1<sup>st</sup> term)
- 380.604 Life Course Perspectives on Health (1<sup>st</sup> term)
- 340.728 Advanced Methods for the Design and Analysis of Cohort Studies (after Year 1, 1<sup>st</sup> term)
- 340.666 Foundations of Social Epidemiology (2<sup>nd</sup> term, 4<sup>th</sup> term online; in person and online sections alternate years)
- 380.603 Demographic Methods for Public Health (2<sup>nd</sup> and 3<sup>rd</sup> terms)
- 340.699 Epidemiology of Sensory Loss in Aging (3<sup>rd</sup> term)
- 330.623 Brain and Behavior in Mental Disorders (4<sup>th</sup> term)
- 140.664.01 Causal Inference in Medicine and Public Health I (3<sup>rd</sup> term)
- 140.664.81 Causal Inference in Medicine and Public Health I (4<sup>th</sup> term)

#### *CERTIFICATE:*

*Track students may be interested in Certificate in Gerontology*

- <http://www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-students/gerontology.html>

**Doctoral Students**  
**General Epidemiology and Methodology Required Coursework**

**Summer Before Year 1**

	<b>Credits</b>
340.994.81 Incoming Epidemiology Students Orientation includes: Introduction to Online Learning Sexual Harassment and Sexual Violence Prevention Training Avoiding Plagiarism	0

**Year 1**

**First Term**

	<b>Type</b>	<b>Credits</b>
<a href="#">140.621.02</a> Statistical Methods in Public Health I or	Core	4
<a href="#">140.651</a> Methods in Biostatistics I		4
<a href="#">340.853</a> First Year Epidemiology Doctoral Seminar	Core	1
<a href="#">340.751</a> Epidemiologic Methods I	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.860</a> Academic and Research Ethics at JHSPH	Core	0
<a href="#">340.731</a> Principles of Genetic Epidemiology <i>(satisfies the topical epidemiology course requirement)</i>	Track	4

**Students with Methodology focus ONLY:**

<a href="#">140.651</a> Methods in Biostatistics I	Track	4
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**Second Term**

	<b>Type</b>	<b>Credits</b>
<a href="#">140.622.02</a> Statistical Methods in Public Health II or	Core	4
<a href="#">140.652</a> Methods in Biostatistics II		4
<a href="#">340.752</a> Epidemiologic Methods II	Core	5
<a href="#">340.853</a> First Year Epidemiology Doctoral Seminar	Core	1
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.865</a> Public Health Perspectives in Research* <i>*may be waived if student holds MPH from a CEPH accredited program in past 10 yrs</i>	Core	2
<a href="#">340.645</a> Introduction to Clinical Trials	Track	3

**Students with Methodology focus ONLY:**

<a href="#">140.652</a> Methods in Biostatistics II	Track	4
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**Students with Pharmacoepidemiology and Drug Safety Focus ONLY:**

<a href="#">340.682</a> Pharmacoepidemiology and Methods	Track	3
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**Third Term**

		Type	Credits
<a href="#">140.623.02</a>	Statistical Methods in Public Health III	Core	4
	or		
<a href="#">140.653</a>	Methods in Biostatistics III	Core	4
<a href="#">340.753</a>	Epidemiologic Methods III	Core	5
<a href="#">340.853</a>	First Year Epidemiology Doctoral Seminar	Core	1
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1

**Students with Methodology focus ONLY:**

<a href="#">140.653</a>	Methods in Biostatistics III	Track	4
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**Students with Pharmacoepidemiology and Drug Safety Focus ONLY:**

<a href="#">340.684</a>	Pharmacoepidemiology: Drug Utilization	Track	
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**Fourth Term**

		Type	Credits
<a href="#">140.624</a>	Statistical Methods in Public Health IV	Core	4
	or		
<a href="#">140.654</a>	Methods in Biostatistics IV		4
<a href="#">340.840</a>	Special Studies and Research Epidemiology with adviser	Core	variable
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1

**Students with Methodology focus ONLY:**

<a href="#">140.654</a>	Methods in Biostatistics IV	Track	4
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\*\* Please add recommended and elective courses to total 16 credits per term.

**Department Comprehensive Examination**

passed Parts A&B- immediately following Fourth Term

## Year 2

		Type	Credits
<a href="#">340.840</a>	Special Studies & Research w/ primary course instructor - <a href="#">TA Curriculum</a>	Core	1

### First Term

		Type	Credits
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	Core	3
<a href="#">340.728</a>	Advanced Methods for the Design Analysis of Cohort Studies	Track	5
<a href="#">340.660</a>	Practical Skills in Conducting Research in Clinical Epi & Investigation	Track	3

### Second Term

		Type	Credits
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	Core	3
<a href="#">340.774</a>	Advanced Theory and Methods in Epidemiology	Track	4

### Third Term

		Type	Credits
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	Core	3
<a href="#">140.664</a>	Causal Inference in medicine and Public Health I*	Track	4

*\*also offered 4th term online*

### Fourth Term

		Type	Credits
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.715</a>	Problems in the Design of Epidemiologic Studies: Proposal Development and Critique	Core	5

### **CORE REQUIREMENT**

ONE introductory topical epidemiology course outside of chosen track.

*(General Epidemiology and Methodology Track requires all students take 340.731, and this satisfies the ONE introductory topical epidemiology course requirement)*

Term			Credits
1	<a href="#">340.731</a>	Principles of Genetic Epidemiology 1	4

## **ADDITIONAL TRACK REQUIREMENTS**

### **Students with Methodology focus ONLY:**

All 3 courses completed

Choose 3 courses from the following list:

		<b>Term</b>	<b>Credits</b>
<a href="#">140.711</a>	Advanced Data Science	1	3
<a href="#">330.657</a>	Statistics for Psychosocial Research: Measurement	1	4
<a href="#">340.646</a>	Epidemiology & Public Health Impact of HIV/AIDS	1	4
<a href="#">340.616</a>	Epidemiology of Aging	1	3
<a href="#">340.696</a>	Spatial Analysis 1: ArcGIS	1	3
<a href="#">140.630</a>	Introduction to Data Management	2	3
<a href="#">140.658</a>	Statistics for Psychosocial Research: Structural Models	2	4
<a href="#">140.712</a>	Advanced Data Science II	2	3
<a href="#">183.631</a>	Fundamentals of Human Physiology	2	4
<a href="#">260.631</a>	Immunology, Infection and Disease	2	3
<a href="#">330.603</a>	Psychiatric Epidemiology	2	3
<a href="#">340.620</a>	Principles of Clinical Epidemiology	2	2
<a href="#">340.624</a>	Etiology, Prevention & Control of Cancer	2	4
<a href="#">340.641</a>	Healthcare Epidemiology	2	4
<a href="#">340.666</a>	Foundations of Social Epidemiology	2	3
<a href="#">340.697</a>	Spatial Analysis 2: Spatial Data Technologies	2	2
<a href="#">340.732</a>	Principles of Genetic Epidemiology 2	2	3
<a href="#">380.603</a>	Demographic Methods for Public Health	2	4
<a href="#">140.640</a>	Statistical Methods for Sample Surveys	3	3
<a href="#">140.644</a>	Statistical Machine Learning: Methods, Theory, and Applications	3	4
<a href="#">140.655</a>	Analysis of Longitudinal Data	3	4
<a href="#">140.698</a>	Spatial Analysis 3: Spatial Statistics	3	4
<a href="#">180.640</a>	Molecular Epidemiology and Biomarkers in Public Health	3	4
<a href="#">222.647</a>	Nutrition Epidemiology	3	3
<a href="#">224.690</a>	Qualitative Research: Theory and Methods	3	3
<a href="#">309.616</a>	Introduction to Methods for Health Services Research & Evaluation I	3	2
<a href="#">340.606</a>	Systematic Reviews and Meta-Analysis	3	6
<a href="#">340.607</a>	Introduction to Cardiovascular Disease Epidemiology	3	4
<a href="#">340.609</a>	Concepts and Methods in Infectious Disease Epidemiology	3	3
<a href="#">340.694.81</a>	Power and Sample Size for the Design of Epidemiological Studies	3	1
<a href="#">340.733</a>	Principles of Genetic Epidemiology 3	3	3
<a href="#">140.656</a>	Multilevel Statistical Models in Public Health	4	4
<a href="#">140.699</a>	Spatial Analysis 4: Spatial Design and Application	4	2
<a href="#">224.691</a>	Qualitative Data Analysis	4	3
<a href="#">309.617</a>	Introduction to Methods for Health Services Research & Evaluation II	4	2
<a href="#">340.653</a>	Epidemiologic Inference in Outbreak Investigations	4	3
<a href="#">340.677</a>	Infectious Disease Dynamics: Theoretical and Computational Approaches	4	3
<a href="#">340.680</a>	Environmental and Occupation Epidemiology	4	4
<a href="#">380.664</a>	Reproductive and Perinatal Epidemiology	4	4
<a href="#">390.675</a>	Outcomes and Effectiveness Research	4	3

**SCHOOLWIDE REQUIREMENT**

<b>Term</b>			<b>Credits</b>
1	<a href="#">550.600</a>	Responsible Conduct of Research	1
		or	
3	<a href="#">306.665</a>	Research Ethics and Integrity: US and International Issues	3

\*\* Please add recommended and elective courses to total 16 credits per term.

## General Epidemiology and Methodology Doctoral Student Recommended Coursework

### CORE RECOMMENDED COURSES

- 340.770 Public Health Surveillance (2<sup>nd</sup> term)
- 306.665 Research Ethics and Integrity: US and International Issues (3<sup>rd</sup> term)
- 340.769 Professional Epidemiology Methods (3<sup>rd</sup> term)
- 340.840 Special Studies – Community Engagement

### TRACK RECOMMENDED COURSES

#### **Methodology focus:**

##### *RECOMMENDED STATISTICAL PROGRAMMING COMPUTING COURSES:*

- 140.776 Statistical Computing (1<sup>st</sup> term)
- 140.632 Introduction to the SAS Statistical Package (4<sup>th</sup> term)
- 340.600 Stata Programming (4<sup>th</sup> term)
- 340.700 Advanced Stata Programming (4<sup>th</sup> term)

##### *INSTITUTES COURSES:*

*Department students may register for Summer Institute courses for an additional tuition fee*

- Introduction to SAS Statistical Package (Summer)
- Introduction to R for Public Health Researchers (Summer and Winter Institutes)
- Stata Programming (Summer)

#### **Pharmacoepidemiology and Drug Safety focus**

##### *RECOMMENDED:*

- 140.633 Biostatistics in Medical Product Registration (1<sup>st</sup> term)
- 317.600 Introduction to Risk Sciences & Public Policy (1<sup>st</sup> term)
- 390.631 Principles of Drug Development (1<sup>st</sup> term)
- 317.610 Risk Policy, Management & Communication (2<sup>nd</sup> term)
- 140.664 Causal Inference in Medicine and Public Health (3<sup>rd</sup> term)
- 551.607 Pharmaceuticals Management for Underserved Populations (3<sup>rd</sup> term)
- 317.605 Methods in Quantitative Risk Assessment (1<sup>st</sup> term online; 3<sup>rd</sup> term in-person)
- 410.680 Social Ecological Approaches to Adherence to Health Regimes in Chronic Conditions (4<sup>th</sup> term)
- 317.615 Topics in Risk Assessment (4<sup>th</sup> term)
- AS.410.651 Clinical Development of Drugs and Biologics (Fall semester)
- AS.410.627 Translational Biotechnology: Licensing to Approval (Fall semester)
- NR.110.508 Clinical Pharmacology (Fall semester)
- ME.330.809 Analytic Methods for Clinical Pharmacology (2<sup>nd</sup> term)



**CERTIFICATE:**

*Track students with a pharmacoepidemiology focus may be interested in the Pharmacoepidemiology and Drug Safety certificate*

<http://www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-and-non-degree-students/pharmacoepidemiology-and-drug-safety-certificate.html>

**Individualized focus:**

Students designing their own educational programs within this Track 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 Track required courses listed above.

**Doctoral Students**  
**Genetic Epidemiology Required Coursework**

**Summer Before Year 1**

	<b>Type</b>	<b>Credits</b>
340.994.81 Incoming Epidemiology Students Orientation includes: Introduction to Online Learning Sexual Harassment and Sexual Violence Prevention Training Avoiding Plagiarism		0

**Year 1**

**First Term**

	<b>Type</b>	<b>Credits</b>
<a href="#">140.621.02</a> Statistical Methods in Public Health I or	Core	4
<a href="#">140.651</a> Methods in Biostatistics I		4
<a href="#">340.853</a> First Year Epidemiology Doctoral Seminar	Core	1
<a href="#">340.751</a> Epidemiologic Methods I	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.860</a> Academic and Research Ethics at JHSPH	Core	0
<a href="#">340.731</a> Principles in Genetic Epidemiology I	Track	4

**Second Term**

	<b>Type</b>	<b>Credits</b>
<a href="#">140.622.02</a> Statistical Methods in Public Health II or	Core	4
<a href="#">140.652</a> Methods in Biostatistics II		4
<a href="#">340.752</a> Epidemiologic Methods II	Core	5
<a href="#">340.853</a> First Year Epidemiology Doctoral Seminar	Core	1
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.865</a> Public Health Perspectives in Research* <i>*may be waived if student holds MPH from a CEPH accredited program in past 10 yrs</i>	Core	2
<a href="#">340.732</a> Principles in Genetic Epidemiology II	Track	3

### Third Term

		<b>Type</b>	<b>Credits</b>
<a href="#">140.623.02</a>	Statistical Methods in Public Health III or	Core	4
<a href="#">140.653</a>	Methods in Biostatistics III		4
<a href="#">340.753</a>	Epidemiologic Methods III	Core	5
<a href="#">340.853</a>	First Year Epidemiology Doctoral Seminar	Core	1
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.733</a>	Principles in Genetic Epidemiology III	Track	3

### Fourth Term

		<b>Type</b>	<b>Credits</b>
<a href="#">140.624</a>	Statistical Methods in Public Health IV or	Core	4
<a href="#">140.654</a>	Methods in Biostatistics IV		4
<a href="#">340.840</a>	Special Studies and Research Epidemiology w/ adviser	Core	variable
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.734</a>	Principles in Genetic Epidemiology IV	Track	2

\*\* Please add recommended and elective courses to total 16 credits per term.

### Department Comprehensive Examination

passed Parts A&B- immediately following Fourth Term

### Year 2

			<b>Credits</b>
<a href="#">340.840</a>	Special Studies & Research w/ primary course instructor - <a href="#">TA Curriculum</a>		1

### First Term

		<b>Type</b>	<b>Credits</b>
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	Core	3
<a href="#">120.602</a>	Concepts of Molecular Biology (Pass/Fail, or Grade) PERL for	Track	4
<a href="#">140.636</a>	Bioinformatics	Track	4
		Track	1

**Second Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	Core	3

**Third Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	Core	3

**Students supported by the Maryland GEM Training Program ONLY:**

ME.710.700	Advanced Topics in Human Genetics *School of Medicine Course	Track	
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**Fourth Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.715</a>	Problems in the Design of Epidemiologic Studies: Proposal Development and Critique	Core	5
<a href="#">140.688</a>	Statistics for Genomics	Track	3

**Students supported by the Maryland GEM Training Program ONLY:**

<a href="#">415.624</a>	Ethical, Legal and Social Implications in Genetics or Genomics Over Time	Track	3
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**ADDITIONAL CORE REQUIREMENT**

ONE introductory topical epidemiology course outside of chosen track. Choices below:

<b>Term</b>			<b>Credits</b>
1	<a href="#">340.616</a>	Epidemiology of Aging*	3
2	<a href="#">340.624</a>	Etiology, Prevention, and Control of Cancer*	4
2	<a href="#">340.627</a>	Epidemiology of Infectious Diseases*	4
3	<a href="#">340.607</a>	Introduction to Cardiovascular Disease Epidemiology*	4
2	<a href="#">340.682</a>	Pharmacoepidemiology and Methods	3
2	<a href="#">330.603</a>	Psychiatric Epidemiology	3
2	<a href="#">340.645</a>	Introduction to Clinical Trials	3
2	<a href="#">340.666</a>	Foundations of Social Epidemiology	3
4	<a href="#">340.680</a>	Environmental and Occupational Epidemiology	4
4	<a href="#">380.664</a>	Reproductive and Perinatal Epidemiology	4

\*The Genetic Epidemiology Track recommends these outside topical epidemiology courses *as most appropriate choices* to fulfill the Core Requirement

## **ADDITIONAL TRACK REQUIREMENTS**

CHOOSE AT LEAST TWO Advanced Analytic Methods Courses

<b>Term</b>			<b>Credits</b>
1	<a href="#">140.641</a>	Survival Analysis	3
1	<a href="#">140.651</a>	Methods in Biostatistics I (if took Biostat 650 Series in year 1, select another course from this list)	4
1	<a href="#">140.776</a>	Statistical Computing	3
2	<a href="#">140.638</a>	Analysis of Biological Sequences	3
2	<a href="#">140.652</a>	Methods in Biostatistics II (if took Biostat 650 Series in year 1, select another course from this list)	4
2	<a href="#">340.774</a>	Advanced Theory and Methods in Epidemiology (After Year 1)	4
3	<a href="#">140.644</a>	Statistical Machine Learning: Methods, Theory and Applications Methods in	4
3	<a href="#">140.653</a>	Biostatistics III (if took Biostat 650 Series in year 1, select another course from this list)	4
3	<a href="#">140.655</a>	Analysis of Longitudinal Data	4
4	<a href="#">140.654</a>	Methods in Biostatistics IV (if took Biostat 650 Series in year 1, select another course from this list)	4

CHOOSE AT LEAST ONE Biology and Molecular Methods Course

<b>Term</b>			<b>Credits</b>
1	ME.710.734	Concept of the Gene *School of Medicine Course (required for students supported by the MD GEM program)	
1	<a href="#">260.611</a>	Principles of Immunology I	4
2	<a href="#">260.612</a>	Principles of Immunology II	4
2	<a href="#">183.631</a>	Fundamentals of Human Physiology* <i>*For non-MD students only</i>	
3	<a href="#">180.640</a>	Molecular Epidemiology and Biomarkers in Public Health	4
3	ME.710.700	Advanced Topics in Human Genetics *School of Medicine Course	
3	ME.710.702	Molecular Mechanisms of Disease *School of Medicine Course	
4	<a href="#">120.608</a>	Genetics and Gene Therapy	3

## **SCHOOLWIDE REQUIREMENT**

<b>Term</b>			<b>Credits</b>
1	<a href="#">550.600</a>	Responsible Conduct of Research or	1
3	<a href="#">306.665</a>	Research Ethics and Integrity: US and International Issues	3

\*\* Please add recommended and elective courses to total 16 credits per term.

**\* School of Medicine courses run longer than School of Public Health Courses  
the required SOM courses may run across 2 JHSPH terms**

## Genetic Epidemiology Doctoral Student Recommended Coursework

### CORE RECOMMENDED COURSES

- 340.770 Public Health Surveillance (2<sup>nd</sup> term)
- 306.665 Research Ethics and Integrity: US and International Issues (3<sup>rd</sup> term)
- 340.769 Professional Epidemiology Methods (3<sup>rd</sup> term)
- 340.774 Advanced Theory and Methods in Epidemiology (2<sup>nd</sup> term, after Year 1)
- 340.840 Special Studies – Community Engagement

### TRACK RECOMMENDED COURSES

#### *RECOMMENDED:*

- 330.619 Analytic Strategies in the Genetics of Psychiatric, Behavioral and Other Complex Diseases (4<sup>th</sup> term)
- 340.616 Epidemiology of Aging (1<sup>st</sup> term)
- 340.624 Etiology, Prevention, and Control of Cancer (2<sup>nd</sup> term)
- 340.627 Epidemiology of Infectious Diseases (2<sup>nd</sup> term)
- 340.607 Introduction to Cardiovascular Disease Epidemiology (3<sup>rd</sup> term)

Students supported by the MD-GEM Training Program are recommended to take:

- ME.710.702 Molecular Mechanisms of Disease (Year 2, 3<sup>rd</sup> – 4<sup>th</sup> terms)
  - Contact Jennifer Deal ([jdeal1@jhu.edu](mailto:jdeal1@jhu.edu)) for details.

**Doctoral Students**  
**Infectious Disease Epidemiology Required Coursework**

**Summer Before Year 1**

	<b>Type</b>	<b>Credits</b>
340.994.81 Incoming Epidemiology Students Orientation includes: Introduction to Online Learning Sexual Harassment and Sexual Violence Prevention Training Avoiding Plagiarism	Core	0

**Year 1**

**First Term**

	<b>Type</b>	<b>Credits</b>
<a href="#">140.621.02</a> Statistical Methods in Public Health I or	Core	4
<a href="#">140.651</a> Methods in Biostatistics I	Core	4
<a href="#">340.853</a> First Year Epidemiology Doctoral Seminar	Core	1
<a href="#">340.751</a> Epidemiologic Methods I	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.860</a> Academic and Research Ethics at JHSPH	Core	0

**Second Term**

	<b>Type</b>	<b>Credits</b>
<a href="#">140.622.02</a> Statistical Methods in Public Health II or	Core	4
<a href="#">140.652</a> Methods in Biostatistics II	Core	4
<a href="#">340.752</a> Epidemiologic Methods II	Core	5
<a href="#">340.853</a> First Year Epidemiology Doctoral Seminar	Core	1
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.865</a> Public Health Perspectives in Research*	Core	2
<a href="#">340.627</a> Epidemiology of Infectious Diseases	Track	4

**Third Term**

	<b>Type</b>	<b>Credits</b>
<a href="#">140.623.02</a> Statistical Methods in Public Health III or	Core	4
<a href="#">140.653</a> Methods in Biostatistics III		4
<a href="#">340.753</a> Epidemiologic Methods III	Core	5
<a href="#">340.853</a> First Year Epidemiology Doctoral Seminar	Core	1
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">340.609</a> Concepts and Methods in Infectious Disease Epidemiology	Track	3

*\*may be waived if student holds MPH from a CEPH accredited program in past 10 yrs*

**Fourth Term**

		Type	Credits
<a href="#">140.624</a>	Statistical Methods in Public Health IV	Core	4
	or		
<a href="#">140.654</a>	Methods in Biostatistics IV		4
<a href="#">340.840</a>	Special Studies and Research Epidemiology w/ adviser	Core	variable
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.653</a>	Epidemiologic Inference in Outbreak Investigation	Track	3

\*\* Please add recommended and elective courses to total 16 credits per term.

**Department Comprehensive Examination**

passed Parts A&B- immediately following Fourth Term

**Year 2**

		Type	Credits
<a href="#">340.840</a>	Special Studies & Research w/ primary course instructor - <a href="#">TA Curriculum</a>	Core	1

**First Term**

		Type	Credits
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	Core	3

**Second Term**

		Type	Credits
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	Core	3
<a href="#">340.774</a>	Advanced Theory and Methods In Epidemiology	Track	4

**Non-MD students only:**

<a href="#">183.631</a>	Fundamentals of Human Physiology	Track	4
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**Third Term**

		Type	Credits
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.863</a>	Doctoral Seminars in Epidemiology	Core	3

**Fourth Term**

		Type	Credits
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.715</a>	Problems in the Design of Epidemiologic Studies: Proposal Development and Critique	Core	5



### **ADDITIONAL CORE REQUIREMENT**

ONE introductory topical epidemiology course outside of chosen track. Choices below:

<b>Term</b>		<b>Credits</b>
1	<a href="#">340.616</a> Epidemiology of Aging	3
1	<a href="#">340.731</a> Principles of Genetic Epidemiology 1	4
2	<a href="#">330.603</a> Psychiatric Epidemiology	3
2	<a href="#">340.624</a> Etiology, Prevention, and Control of Cancer	4
2	<a href="#">340.682</a> Pharmacoepidemiology and Methods	3
2	<a href="#">340.645</a> Introduction to Clinical Trials	3
2	<a href="#">340.666</a> Foundations of Social Epidemiology	3
3	<a href="#">340.607</a> Introduction to Cardiovascular Disease Epidemiology	4
4	<a href="#">380.664</a> Reproductive and Perinatal Epidemiology	4
4	<a href="#">340.680</a> Environmental and Occupational Epidemiology	4

### **ADDITIONAL TRACK REQUIREMENTS**

**CHOOSE AT LEAST ONE** general elective in Infectious Disease Epidemiology

<b>Term</b>		<b>Credits</b>
1	<a href="#">340.646</a> Epidemiology and Public Health Impact of HIV/AIDS	4
2	<a href="#">223.662</a> Vaccine Development and Application	4
2	<a href="#">260.652</a> Principles of Public Health Ecology	4
2	<a href="#">340.641</a> Healthcare Epidemiology	4
3	<a href="#">182.640</a> Food and Water-Borne Diseases	3
3	<a href="#">223.663</a> Infectious Diseases and Child Survival	3
3	<a href="#">223.687</a> Vaccine Policy Issues	3
3	<a href="#">340.612.81</a> Epidemiologic Basis for Tuberculosis Control	2
4	<a href="#">223.682</a> Clinical and Epidemiologic Aspects of Tropical Diseases	4
4	<a href="#">223.689</a> Biological Basis of Vaccine Development	3
4	<a href="#">260.656.81</a> Malariology	4
4	<a href="#">340.651</a> Emerging Infections	2
4	<a href="#">380.761.81</a> Sexually Transmitted Infections in Public Health Practice	4
4	<a href="#">380.762.81</a> HIV Infection in Women, Children, and Adolescents	4

**CHOOSE ONE:**

<b>Term</b>		<b>Credits</b>
1	<a href="#">340.660</a> Practical Skills in Conducting Research in Clinical Epi & Investigation or	3
2	<a href="#">340.717</a> Health Survey Research Methods	4

**CHOOSE AT LEAST ONE** course in Biology and Pathogenesis of Infectious Disease:

<b>Term</b>		<b>Credits</b>
1	<a href="#">260.623</a> Fundamental Virology	4
1	<a href="#">260.636</a> Evolution of Infectious Disease	3
1	<a href="#">340.654</a> Epidemiology and Natural History of Human Viral Infections	6
2	<a href="#">260.627</a> Pathogenesis of Bacterial Infection	4
3	<a href="#">260.650</a> Vector Biology and Vector Borne Diseases	3

**CHOOSE AT LEAST ONE** course in Advanced Analytical and Statistical Methods (Year 2)

<b>Term</b>			<b>Credits</b>
1	<a href="#">140.641</a>	Survival Analysis	3
1	<a href="#">330.657</a>	Statistics for Psychosocial Research: Measurement	4
1	<a href="#">340.696</a>	Spatial Analysis I: ArcGIS I	3
1	<a href="#">340.728</a>	Advanced Methods in the Design and Analysis of Cohort Studies	5
2	<a href="#">140.658</a>	Statistics for Psychosocial Research: Structural Models	4
2	<a href="#">340.697</a>	Spatial Analysis II: Spatial Data Technologies	2
3	<a href="#">140.655</a>	Analysis of Longitudinal Data	4
4	<a href="#">140.656</a>	Multilevel Statistical Models in Public Health	4
4	<a href="#">340.677</a>	Infectious Disease Dynamics: Theoretical & Computational Approaches	3

**CHOOSE ONE** (Year 2):

<b>Term</b>			<b>Credits</b>
1	<a href="#">260.611</a>	Principles of Immunology I	4
		<b>and</b>	
2	<a href="#">260.612</a>	Principles of Immunology II	4
		or	
2	<a href="#">260.631</a>	Immunology, Infection and Disease	3

**SCHOOLWIDE REQUIREMENT**

<b>Term</b>			<b>Credits</b>
1	<a href="#">550.600</a>	Responsible Conduct of Research	1
		or	
3	<a href="#">306.665</a>	Research Ethics and Integrity: US and International Issues	3

\*\* Please add recommended and elective courses to total 16 credits per term.

## Infectious Disease Epidemiology Doctoral Student Recommended Coursework

### CORE RECOMMENDED COURSES

- 340.770 Public Health Surveillance (2<sup>nd</sup> term)
- 306.665 Research Ethics and Integrity: US and International Issues (3<sup>rd</sup> term)
- 340.769 Professional Epidemiology Methods (3<sup>rd</sup> term)
- 340.840 Special Studies – Community Engagement

## ***Department Comprehensive Examination***

A two-day Department comprehensive examination is administered to all students enrolled in the PhD or ScD programs in late May of the first academic year. By the time of the examination (known as “the comps”), students should have completed 64 credits (one full year of residence); Epidemiology 340.751-753, Biostatistics 140.621-624 or 140.651-654; and the required 1<sup>st</sup> year coursework in their Track and with a cumulative GPA of at least 3.0.

Topics covered on the comprehensive examination include knowledge and application of epidemiologic concepts and methods, history of epidemiology, and contemporary issues and leaders in public health. The first day of the exam (Part A) tests student knowledge of epidemiology concepts and methods. The second day of the exam (Part B) is Track-specific, and tests knowledge of concepts presented in the required courses for each Track.

Students must pass both Part A and Part B of the comprehensive examination. Doctoral students must attain at least a 75% on Part A and Part B to pass. A repeat examination may be allowed, but is not guaranteed. Failure to pass one or both sections of the comps may result in dismissal from the doctoral program or from the Department.

## ***Comprehensive Examination Grading Policy***

The completed Comprehensive Examination is graded by Department of Epidemiology faculty according to a rubric determined by the Comprehensive Examination Committee. Final grades are distributed to students via CoursePlus by mid-July. Students who wish to view their exam should set up an appointment with the Academic Coordinator, Ms. Ebony Moore (eamoore@jhu.edu). Doctoral students who score below 75% are allowed to formally request in writing 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. 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. Re-grade requests are handled by the faculty on the Comprehensive Examination Committee.

## **Teaching Assistant Curriculum**

### **Purpose of the TA Curriculum:**

Learning how to be an effective teacher and communicator about epidemiologic principles and methods is an integral part of doctoral education in epidemiology. Teaching is an opportunity for students to meet several Departmental doctoral program core competencies, enabling students to:

- Interpret and critique epidemiological studies;
- Interpret epidemiologic data and make valid inferences from study findings;
- Communicate effectively in oral and written formats with students, professionals and the public on issues related to epidemiology and public health; and
- Provide epidemiologic critique and advice through advising students and professionals on epidemiologic concepts and methods and conducting peer review activities

Practicing these skills also prepare students for Department and Preliminary Oral Examinations and for their future careers, whether in academia or in other venues. (See the [Benefits of Teaching](#) from Former TAs section in this Student Handbook for additional benefits of teaching).

### **Components of the TA Curriculum:**

All doctoral (PhD and ScD) students are required to complete the TA Curriculum after passing the Department Comprehensive Examination and before graduation. Training and feedback is an important part of this curriculum, which includes:

- 1) formal didactic training,
- 2) in-classroom training through experience as a TA in Department courses, and
- 3) feedback from instructors

Students will share their goals for TA training with course instructors prior to the start of each course taught. After TAing a course, students will document their TA experience for their resume or CV.

**(1) Didactic training:**

The following didactic TA training is flexibly designed to give doctoral students the skills and tools necessary to be a successful TA and to meet teaching and learning goals.

<p><b>Department of Epidemiology TA Training</b></p> <p>This student-led 1.5-hour training covers the basics of TAing in the Department, including TA roles, benefits and expectations. This session is held during lunchtime during 1st term. Information regarding the date and location is distributed via the Department's student listserv.</p>	<p><b>Required</b></p>
<p><b>CTL's Teaching Assistantship Training</b></p> <p>This online course offered through the JHSPH Center for Teaching and Learning (CTL) <i>"orients Teaching Assistants to the roles and responsibilities of their position, relevant policies and regulations, technical tools, teaching tips, and other important information."</i></p> <p>Offered every term. To view the dates when this course is offered and to sign up, visit: <a href="https://sites.google.com/site/ctlteachingtoolkit/teaching-assistants/ta-training">https://sites.google.com/site/ctlteachingtoolkit/teaching-assistants/ta-training</a></p>	<p><b>Required</b></p>
<p><b><u>Teaching Academy</u> Activities</b></p> <p>Offers additional resources around the pedagogy of teaching.</p> <p>To prepare graduate students so they may thrive in higher education as academic professionals once they graduate, this academy offers teacher training and academic career preparation opportunities through:</p> <ul style="list-style-type: none"><li>• Courses</li><li>• Workshops</li><li>• Teaching practicums</li><li>• Teaching as research fellowship appointments</li><li>• Individual consultation</li></ul> <p>CTL's Teaching Assistantship Training covers the learning objectives required to align with completion of Phase I of the Teaching Academy's <a href="#"><u>"Preparing Future Faculty Teaching (PFFT) Certificate Program."</u></a></p>	<p><b>Recommended</b></p>

## **(2) In-classroom training:**

As part of the TA Curriculum, doctoral students will serve as TAs. Students are required to TA 3 courses: 2 *epidemiologic methods courses* and 1 *topical epidemiology course* (see list below for courses). No more than 1 of the 3 courses TAed as part of the TA Curriculum may be an online course.

To document the in-classroom training on the academic transcript and to receive academic credit, doctoral students should register for 340.840 Special Studies and Research Epidemiology for 1 *credit hour* with the primary course instructor during the term that they are TAing. If the course is being taught in the Summer term, the credit hour with the primary course instructor should be registered for in the following 1<sup>st</sup> term, to avoid additional tuition fees.

Department of Epidemiology **epidemiologic methods courses** are:

- 340.601.01 Principles of Epidemiology (Summer term)
- 340.688.01 Practical Epidemiology for Basic Scientists (4<sup>th</sup> term)
- 340.721.60 Epidemiologic Inference in Public Health I (1<sup>st</sup> term, blended in-person)
- 340.721.81 Epidemiologic Inference in Public Health I (3<sup>rd</sup> term, online)
- 340.722.60 Epidemiologic Inference in Public Health II (2<sup>nd</sup> term, blended in-person)
- 340.722.81 Epidemiologic Inference in Public Health II (4<sup>th</sup> term, online)
- 340.751.01 Epidemiologic Methods 1 (1<sup>st</sup> term)
- 340.752.01 Epidemiologic Methods 2 (2<sup>nd</sup> term)
- 340.753.01 Epidemiologic Methods 3 (3<sup>rd</sup> term)
- 340.774 Advanced Theory and Methods in Epidemiology (2<sup>nd</sup> term)
- 340.769.01 Professional Epidemiology Methods (3<sup>rd</sup> term)
- 340.770.01 Public Health Surveillance (2<sup>nd</sup> term)
- 340.653.01 Epidemiologic Inference in Outbreak Investigations (4<sup>th</sup> term)
- AS.280.350 Fundamentals of Epidemiology (Fall Semester)
  - [NOTE: Role of 'Grading TA' for this course may NOT be used to fulfil the TA curriculum.]
- AS.280.350 Fundamentals of Epidemiology (Spring Semester)
  - [NOTE: Role of 'Grading TA' for this course may NOT be used to fulfil the TA curriculum.]
- Professional Epidemiologic Methods: Epidemiologic Intelligence and Population Health Assessments (4<sup>th</sup> term)
  - [NOTE: This new in-person course for the 2017-18 academic year will be held 4th term. The course number has not yet been assigned and the title of the course may be subject to change.]

All other Department of Epidemiology courses (340.xxx) that are eligible to have a TA are considered **topical epidemiology courses** for the purpose of the TA Curriculum.

To fulfill the 2 methods courses of the TA Curriculum, students are encouraged to TA 340.751, 340.752, and/or 340.753, although any of the courses listed above may be used to fulfill the requirement.

Summer Institute courses do *not* count towards the TA in-classroom training requirement. A student may TA for the Summer Institute prior to the completion of their TA training requirements.

Students are eligible to TA as part of this curriculum once they have successfully passed the Department Comprehensive Examination. Students may TA 340.601 Principles of Epidemiology during the summer term immediately following completing the comps. Students are expected to complete the TA Curriculum during their second and third years of training.

Students are responsible for coordinating with course administrators and/or course instructors for each course they wish to TA. **The Department recommends students proactively, directly contact faculty once they have identified a course that they would like to TA as part of the TA Curriculum.** Course faculty take many factors into consideration in selecting TAs for a course (including your performance as a student in the course) and some courses may have more TA requests than can be accommodated. Students may not always be able to serve as a TA for their first choice of courses, so should keep several courses in mind and be flexible.

TA responsibilities vary by course, and students are expected to work with course faculty to understand their responsibilities prior to the start of the course. Responsibilities may include but are not limited to: preparing for lab/activities and office hours, attending instructors' meetings, attending lectures and lab/activities, holding office hours, and assisting with assessment writing and piloting. TAs are expected to devote 10-19 hours per week for each course; the wide range reflects the variability in responsibilities by course.

Prior to the start of each course TAed as part of the TA Curriculum, students are required to provide to course instructor(s) 3 goals for the TA experience in writing via email. The purpose of these goals is to provide a basis for reflection by TAs on their current skills and knowledge, as well as their future professional teaching/communication goals, in order to improve student achievement. Progress toward achieving goals over the term will be evaluated by course faculty as part of the feedback process.



### **(3) Feedback from Instructors:**

As part of the TA Curriculum, students will receive standardized, individualized feedback from course and/or lab instructors (see below Feedback form). If applicable, TAs will also receive student feedback recorded as part of the School's online course evaluation system. Students are responsible for sending the feedback form complete with student's goals from the start of the term to course faculty no later than 2 weeks following the end of the term. Faculty are not obligated to honor requests for feedback that occur more than 2 weeks after the end of the course.

TAs are encouraged to document feedback from instructors and from students (if applicable) in their CV or resume.

### **Documentation of Teaching (TA) Experience for a Resume or Curriculum Vitae:**

Doctoral students are encouraged to document their TA experience, including teaching responsibilities and feedback, using the below resume or cv template as a guide.

### **Waivers:**

A written request for a waiver to any aspect of the TA Curriculum due to exceptional circumstances, including the in-classroom training (i.e., being a TA), should be submitted to the Academic Support Core office ([JHSPH.epiasc@jhu.edu](mailto:JHSPH.epiasc@jhu.edu)) and will be reviewed by the Department of Epidemiology Curriculum Committee and decided upon by the Admissions and Credentials Committee.

### **Compensated TA positions:**

Additional TA opportunities may be available for a pre-specified fixed payment *after* the TA Curriculum has been completed. As with the TA Curriculum, students are responsible for coordinating with course administrators and/or course instructors for each course they wish to TA for pay. Students should proactively, contact faculty directly once they have identified a course that they would like to TA. Course faculty take many factors into consideration in selecting TAs for a course and students should be aware that some courses may have more TA requests than can be accommodated.

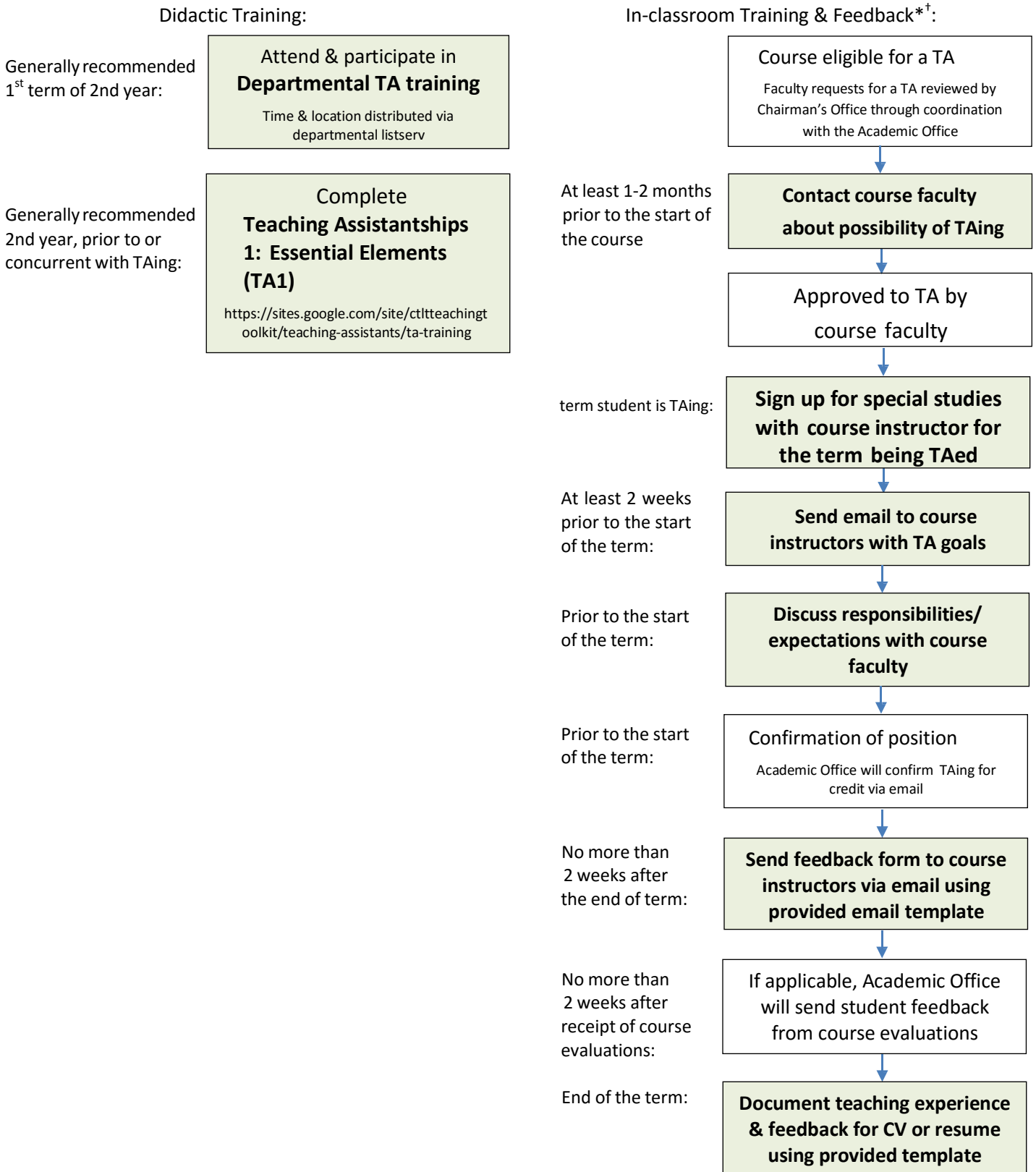
Please note that State of Maryland law sets student hourly work limitations, at 20 hours per week maximum. Exception: 40 hours over Thanksgiving, winter, and spring breaks, and during the summer.

### **Benefits of Teaching (from former TAs):**

- Improve oral and written communication skills
- Develop ability to articulate complex epidemiologic concepts to audiences with varying degrees of research experience
- Preparation for oral exams/defense
- Experience with educational technology (e.g., CoursePlus, VoiceThread)
- Experience in nuts & bolts of graduate courses (e.g., design of assessments & feedback)
- Opportunity to provide essential input that can influence the ongoing development of the department's core courses
- Ability to progress to more independent instructor roles (e.g., Gordis fellows, TA training seminars/modules, Lab instructor)
- Management skills (managing up to faculty instructors and leading teams of TAs)
- Mentorship from, and relationships with, faculty instructors
- Builds sense of community with TA colleagues
- Allows students to gauge interest in academic/teaching roles post-graduation
- Development of a teaching portfolio that can be used in CV development & job searches
- Getting to know diverse group of students/mentoring new students

## Timeline and Steps for Completion of the TA Curriculum:

= student responsibility



\*Students must successfully pass the Department Comprehensive Examination prior to the start of the in-classroom training.

†Students should repeat this process for each course TAed. As part of the TA curriculum, students must TA 2 methods courses and 1 topical course. One of the 3 courses may be an online course.

**Instructor Feedback Form:**

**FEEDBACK FROM FACULTY FOR:** \_\_\_\_\_  
**FACULTY PROVIDING FEEDBACK:** \_\_\_\_\_

**COURSE NAME:**  
\_\_\_\_\_

The student above served as a TA for your course to complete their in-classroom training component of the Epidemiology Department's TA Curriculum. Please complete this feedback form specific to the TA listed above; if there is more than one instructor in the course, please have the faculty who worked closest with the TA complete this form.

The 3 TA goals for this course articulated prior to the start of the term were:

- 1)
- 2)
- 3)

Do you believe the TA accomplished his/her stated goals? Please elaborate.

Please provide a narrative summary below of the TA's strengths and areas in need of improvement. We recommend comments regarding:

- 1) the TA's mastery of the course material and ability to articulate the core epidemiologic concepts taught in the course;
- 2) the TA's rapport with students, professionalism, attendance, and responsiveness to the needs of the learner; and
- 3) whether the TA establish a collegial working relationship with the other TAs and the faculty of the course.

Please elaborate and provide other constructive comments as applicable.

## Documentation of Teaching Experience for a Resume or Curriculum Vitae:

TEMPLATE:

### PROFESSIONAL EXPERIENCE

yyyy Completed Department of Epidemiology TA Training, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

yyyy Completed *Teaching Assistantships 1: Essential TA Elements* Course, Johns Hopkins Center for Teaching and Learning, Baltimore, MD

### TEACHING

#### Classroom Instruction

*Johns Hopkins Bloomberg School of Public Health, Department of Epidemiology*

yyyy Teaching Assistant, Course Title [Course number]  
**Course description:** (may be pulled from the Course Catalog) Enrollment: ### students

**Responsibilities:**

**Feedback from course faculty:**

**Feedback from students:**

EXAMPLE:

## PROFESSIONAL EXPERIENCE

2017 Completed Department of Epidemiology TA Training, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

2017 Completed *Teaching Assistantships 1: Essential TA Elements* Course, Johns Hopkins Center for Teaching and Learning, Baltimore, MD

## TEACHING

### Classroom Instruction

*Johns Hopkins Bloomberg School of Public Health, Department of Epidemiology*

2017 Teaching Assistant, Epidemiologic Methods 3 [340.753.01]

**Course description:** This is the third in the core sequence of epidemiologic methods courses designed to meet the needs of those conducting epidemiologic research. This course expands on the presentation of modern epidemiologic inference emphasizing the theory and practice of epidemiologic data analysis. The course is designed around two major areas: the use of regression modeling in epidemiological analysis and the analysis of time-to-event data.

**Enrollment:** 123 students

#### **Responsibilities:**

- Assisted small groups with learning exercises
- Led large group discussions of learning exercises
- Organized, managed, and monitored web-based platform used for the course
- Fielded questions from students during office hours without faculty presence
- Wrote the following exam questions...

#### **Feedback from course faculty:**

- “She took time to ensure she fully understood the student’s question and ensured the student’s understanding with the answer provided.”
- “He contributed to the teaching team with his sense of humor, dedication, and feedback as to what he believes students were not fully understanding.”

#### **Feedback from students:**

- “She was a great TA! Very knowledgeable and patient!”
- “He spent a lot of extra time in office hours with me to make sure I understood the concepts.”

## Other Teaching Opportunities

### Department of Epidemiology Named Teaching Assistantships

Each year a call for applications will be issued by the Department for four named, prestigious teaching assistantships. Four doctoral students will be selected each year by a special committee of faculty instructors as the recipients. Each recipient will serve as an ongoing TA across the sequential terms of either the Professional Epidemiology Series, or the Epidemiologic Methods series, in a single academic year.

Requirements include:

- Must have completed the full 1<sup>st</sup> year Epidemiology curriculum and passed the Department Comprehensive Exam at the time of the award
- Must be an active PhD or ScD student in Epidemiology at the time of award
- Must maintain full-time status over the duration of the assistantship
- Must serve as TA in all courses in the series sequences named below
- Must serve as lead TA in one of the 4 courses; unless a waiver is granted by each of the course instructors
- Must test the coming year's Department Comprehensive Exam
- US Citizens, Permanent Residents, and International students are all eligible

Benefits include:

- \$18,000 semi-monthly student salary paid over 24 pay periods. This work constitutes the equivalent of 15 hours per week; fellows may hold other research positions not to exceed 5 hours per week during the affected 4 terms (Summer term excluded).
- Additional tuition support from the Department up to a maximum of 25% on top of current projected Department scholarship
- Individual-level Health Insurance Support and UHS Clinic Fee Support (per JHSPH rates)
- Fulfills the 3 required courses for the in-classroom training component of the TA Curriculum

The four named teaching assistantships are:

#### ***The Alexander Langmuir Teaching Assistantship in Professional Epidemiology***

Serves in 4-course sequence of Epidemiology Professional Series

*Alexander Langmuir (1910-1993), "the father of shoe leather epidemiology", created the Epidemic Intelligence Service (EIS) at the Centers for Disease Control and contributed greatly to polio eradication efforts in the United States. Dr. Langmuir earned his M.P.H. from the Johns Hopkins School of Hygiene and Public Health and taught at the School from 1988 until his death. Recipients of the Langmuir Teaching Assistantship carry on his strong commitment to professional epidemiology by serving as a teaching assistant for the four courses in our Professional Epidemiology Methods course sequence.*

<http://www.jhsph.edu/about/history/heroes-of-public-health/alexander-langmuir.html>

### **The Leon Gordis Teaching Assistantship in Professional Epidemiology & Endowed Centennial Scholar** Serves in 4-course sequence of Epidemiology Professional Series

Leon Gordis (1934-2015), pediatrician and epidemiologist, was a prolific author and contributor to many fields of epidemiology and health care. One of the most revered professors of public health, Dr. Gordis is perhaps best known for his teaching of the course "Principles of Epidemiology" at the Johns Hopkins School of Hygiene and Public Health and his widely heralded textbook "Epidemiology", first published in 1996 and now in its fifth edition. Dr. Gordis joined the faculty of the Department of Pediatrics in the Johns Hopkins School of Medicine in 1966, earned a M.P.H. and a Dr.P.H. from the Johns Hopkins School of Hygiene and Public Health in 1966 and 1968, respectively, and served as the Department of Epidemiology's fifth chair from 1975-1993. In 2009, he was honored with a teaching fellowship program that supports graduate students in epidemiology engaged in teaching undergraduate students in the public health major at the Johns Hopkins Krieger School of Arts & Sciences. Recipients of the Gordis Teaching Assistantship carry on his strong commitment to teaching and to epidemiology by serving as a teaching assistant for the four courses in our Professional Epidemiology Methods course sequence.

<http://aje.oxfordjournals.org/content/182/10/823.full?sid=3d863999-3620-4ebd-b756-7ec734181cdc>

**SPECIAL NOTE** – The Leon Gordis Teaching Assistantship has the additional special distinction of being an **endowed centennial scholar** linked to the **Leon Gordis Centennial Scholarship** (which co-funds this intention). Although there are no additional financial incentives, the recipient of this specific TA assistantship will be recognized and honored at the end of the year at the **School Awards Ceremony** as the annual recipient of the endowment honors (in addition to the Department end of the year ceremony where all TA Assistantships honorees are recognized).

### **The Moyses Szklo Teaching Assistantship in Epidemiologic Methods**

Serves in 3-course sequence of Epidemiologic Methods and Principles of Epidemiology (Summer term)

Moyses Szklo is an American epidemiologist and physician scientist. He is currently a Professor of Epidemiology and Medicine at the Johns Hopkins University, Editor-in-chief of the American Journal of Epidemiology, and director of the Johns Hopkins Summer Institute of Epidemiology and Biostatistics. Dr. Szklo has published over 300 articles in peer-reviewed journals as well as a major textbook of epidemiology, "Epidemiology: Beyond the Basics". Dr. Szklo earned his M.P.H. from the Johns Hopkins University School of Hygiene and Public Health in 1972 and his Dr.P.H. in 1974. Recipients of the Szklo Teaching Assistantship carry on his strong commitment to teaching and to epidemiology by serving as a teaching assistant for the four courses in our Epidemiologic Methods course sequence.

[https://en.wikipedia.org/wiki/Moyses\\_Szklo](https://en.wikipedia.org/wiki/Moyses_Szklo)

### **The Abraham Lilienfeld Teaching Assistantship in Epidemiologic Methods**

Serves in 3-course sequence of Epidemiologic Methods and Principles of Epidemiology (Summer term)

Known as the "father of contemporary chronic disease epidemiology", Abraham Lilienfeld (1920-1984) was an expert in cancer research and contributed greatly to the landmark 1964 Smoking and Health report issued by the 9th US Surgeon General. Dr. Lilienfeld earned his M.P.H. in 1949 from the Johns Hopkins University School of Hygiene and Public Health, served on the faculty from 1950-1954 and again from 1958 until his death, serving as Chair of the Department from 1970-1975. Recipients of the Lilienfeld Teaching Assistantship carry on his strong commitment to teaching by serving as a teaching assistant for the four courses in our Epidemiologic Methods course sequence.

<http://www.ihsp.edu/about/history/heroes-of-public-health/abraham-lilienfeld.html>

For more information about the Named Teaching Assistantships, please contact the Director of Graduate Education, Laura Camarata ([lcamarata@jhu.edu](mailto:lcamarata@jhu.edu)).

## University Named Teaching Fellowship

### ***Gordis Teaching Fellowship in Undergraduate Education***

Department doctoral students are eligible to apply for the Gordis Teaching Fellowship in Undergraduate Education.

*“Each year the Offices of the Dean of Arts and Sciences and Bloomberg School of Public Health sponsor the Gordis Teaching Fellowship Program. The fellowship is designed to foster innovation in the undergraduate public health curriculum, to give advanced graduate students in the Bloomberg School of Public Health experience teaching their own undergraduate courses, and offer undergraduates the opportunity to take seminar-size classes with 19 or fewer students. Graduate students regard this as a rare opportunity to promote themselves academically.” <http://krieger.jhu.edu/publichealth/gordis-teaching-fellowship/>*



## ***Thesis Advisory Committee***

The role of the Thesis Advisory Committee is to provide continuity in the evaluation of the progress and development of the doctoral student. The Thesis Advisory Committee is assembled by the doctoral student and his/her adviser(s). For PhD and ScD students, the Thesis Advisory Committee consists of the dissertation (thesis) adviser and at least two additional faculty members who hold either primary or joint appointments in Epidemiology. If the student has a co-adviser, the co-adviser should serve on the Thesis Advisory Committee. Additional faculty within and outside of the School may also be recruited. Committee membership is permitted to change during the research period. The Thesis Advisory Committee is not the same as the Preliminary or Final Oral Examination Committees.

The Thesis Advisory Committee decides when the student is ready to proceed through each of the milestones needed to complete the degree requirements, including the Doctoral Proposal Seminar, the Departmental and School-wide Preliminary Oral Examinations, and the Final Oral Examination (“defense”).

Bi-annual formal meetings of the Thesis Advisory Committee are required, but meetings may and should occur more frequently. It is the student's responsibility to schedule meetings.

Tips for doctoral students for successful formal meetings of the Thesis Advisory Committee:

- Prior to each meeting, draft an agenda with advisor input and distribute a one-page description of progress, including any key results
- After each meeting, send a written report of the items discussed and decisions reached to the members for approval
- Maintain a log of the meetings to aid in writing the annual progress report and financial support documentation

Once the Thesis Advisory Committee is formed, submit the [Thesis Committee Approval Form](#) to Ebony A. Moore ([eamoore@jhu.edu](mailto:eamoore@jhu.edu)) in W6508C.

## ***Dissertation Research Proposal***

The 12-page single-spaced dissertation research proposal is developed during the second year during terms 1 – 3 of 340.863 Doctoral Seminars in Epidemiology and is the final project for the course 340.715 Problems in the Design of Epidemiologic Studies: Proposal Development and Critique. The dissertation proposal must be reviewed and approved by the Thesis Advisory Committee prior to scheduling the Doctoral Proposal Seminar.

## ***Doctoral Proposal Seminar***

After the Thesis Advisory Committee has approved the student's 12-page dissertation research proposal, the student must orally present his/her proposal in a Doctoral Proposal Seminar to the Department. Students should present a prepared presentation (typically PowerPoint) of approximately 40-45 minutes in length, followed by approximately 15-20 minutes of questions and discussion.

The Proposal Seminar is presented during the Friday Epidemiology Seminars (Current Topics in Epidemiologic Research) on Fridays from 12:15-1:20pm in Sheldon Hall. The dissertation (thesis) adviser must attend, and Thesis Advisory Committee members and the Track Director are strongly encouraged to attend. Doctoral Proposal Seminars are advertised to the Department at large, and students and their advisers should personally invite other faculty and colleagues to attend.

The best ways to prepare for this seminar include attending Doctoral Proposal Seminars presented by peers and by presenting in a track research-in-progress meeting. Students should plan to conduct a 'dress rehearsal,' prior to the actual proposal, in the same room reserved for the defense, familiarizing with the surroundings, and testing all technology they will use in the Doctoral Proposal Seminar.

After the Thesis Advisory Committee has approved the student to present their Doctoral Proposal Seminar, the student should work with the adviser and Thesis Advisory Committee to select a seminar date. To schedule a date, students must submit the *Doctoral Proposal Seminar Form*, which include preferences for seminar dates (1st, 2nd and 3rd). This form requires the signature of the adviser and the Track Director. Doctoral Proposal Seminar Forms should be submitted to Jon Eichberger ([je@jhu.edu](mailto:je@jhu.edu)).

## ***Departmental Oral Examination***

### **Purpose**

After the Thesis Advisory Committee has approved the Dissertation Research Proposal and the student has presented the Doctoral Proposal Seminar, the next step is sitting for the Departmental Oral Examination. The primary purpose of the Departmental Oral Examination is to prepare the student for the Preliminary Oral Examination. As such, the Departmental Oral Examination shares the purpose of the Preliminary Oral Examination: To determine whether the student has both the ability and knowledge to undertake significant research in his/her general area of interest, including: (1) capacity for logical thinking; (2) breadth of knowledge in relevant areas; and (3) ability to develop and conduct research leading to a completed dissertation (thesis). Discussion of a specific research proposal, if available, may serve as vehicle for determining the student's general knowledge and research capacity. However, this examination is not intended to be a defense of a specific research proposal.

### **Meeting with the Academic Program Manager**

In preparation for scheduling the Department Oral Examination, students should meet with the Academic Program Manager ([FranBurman@jhu.edu](mailto:FranBurman@jhu.edu)) to confirm that all Track, Department, and Schoolwide course requirements have been met and to review the eligibility of the proposed committee members for the Department and Preliminary Oral Examiners.

### **Department Oral Examination Committee Membership**

For PhD and ScD students, the Department Oral Examination Committee should consist of: the adviser (primary); and two other members and one alternate member, all of whom have primary appointments in the Department of Epidemiology. Thesis committee members, including co-advisers, are NOT permitted to serve on the Departmental Oral Examination committee with the exception of the student's adviser, who must participate. All Professorial and Scientist Track faculty may serve on the Committee. Students are not required to meet with members of the Committee prior to the examination and should not expect that committee members will discuss what questions they will be asked.

### **Conduct of the Examination**

Prior to the exam, students should submit to the Department Oral Examination Committee members a SINGLE PAGE summary of the dissertation proposal, including the specific aims, hypotheses, and methods. Committee members may request the longer 12-page Dissertation Research Proposal. The examination should be completed in one and a half hours, but may be concluded earlier or later as determined by the Committee. At the start of the exam, students will present a brief talk of no more than 10 minutes that concisely summarizes the aims, hypothesis, methods, limitations and significance of their proposed dissertation research. This presentation may be a distillation of the Doctoral Proposal Seminar.

### **Department Oral Examination Form**

This [Department Oral Examination Form](#) is due to Ms. Ebony Moore ([eamoore@jhu.edu](mailto:eamoore@jhu.edu)) at least 14 days prior to the date of the proposed exam. With approval of the Dissertation (thesis) Advisor, the form should be submitted after presenting the Doctoral Proposal Seminar and incorporating any key input from the Seminar into the Dissertation Research Proposal.

### **Scheduling**

The Academic Coordinator, Ms. Ebony Moore ([eamoore@jhu.edu](mailto:eamoore@jhu.edu)), will schedule the room and send a memo to examiners prior to the examination date.

## Department Oral Examination Outcome

The possible outcomes of the oral examination are: Unconditional Pass, Conditional Pass, or Failure (retake). Conditional Pass requires the student and Department Oral Examination Committee to agree on a remedial course of action designed to be completed within two weeks of the examination. Students who fail will be required to re-take the Department Oral Examination within six months. Two failures of the Departmental Oral Examination will result in dismissal from the degree program. For more information about the Departmental Oral Examination, please review the [Department of Epidemiology Student Guidelines for the Departmental Oral Examination](#).

## ***Preliminary Oral Examination (also colloquially known as the Schoolwide Oral Examination)***

### **Purpose**

After the student has passed the Departmental Oral Examination, the next step is the Preliminary Oral Examination. The purpose of the Preliminary Oral Examination is to determine whether the student has both the ability and knowledge to undertake significant research in his/her general area of interest, including: (1) capacity for logical thinking; (2) breadth of knowledge in relevant areas; and (3) ability to develop and conduct research leading to a completed dissertation. Discussion of a specific research proposal, if available, may serve as a vehicle for determining the student's general knowledge and research capacity. However, this examination is not intended to be a defense of a specific research proposal.

The preliminary oral examination is two hours in duration.

### **Examination Committee Membership**

- The Committee consists of five members (the student's primary adviser and four other members), and two alternates
- Members must come from at least three departments within the University, with representation from at least two departments in JHSPH
- At least one Committee member must be an associate or full professor in a department other than Epidemiology (please allow time for desired committee member to review the student's work before committing to the committee)
- Thesis Advisory Committee members may serve on the Committee
- Either one scientist track or one adjunct faculty member may serve on the Exam Committee, but not both
- Alternates must hold appointments of assistant professor or higher. Of the two alternates, one must hold an appointment with the Department of Epidemiology and one must hold an appointment in a department other than Epidemiology

## Preliminary Oral Examination Form

- [PhD/ScD form](#)
- This form cannot be submitted until after the student has successfully passed the Departmental Oral Examination
- This form must be submitted to the Registrar's Office in E1002 a minimum of 30 days prior to the proposed examination date. **No exceptions**
- This form requires signatures from Academic Program Manager (Fran Burman), the adviser, and the Department Chair or a Deputy Chair. The student is responsible for obtaining the required signatures in that order. The form should therefore be submitted to Fran Burman ([FranBurman@jhu.edu](mailto:FranBurman@jhu.edu)) at least 3-4 days prior to the date of submission to the Registrar's Office

## Scheduling

The student is responsible for [scheduling the room](#) for the exam, [requesting Multimedia support](#) if needed, and sending a memo to examiners confirming the date, time and location of the exam prior to the exam date.

## Examination Outcome

The outcome of the examination is Unconditional Pass, Conditional Pass, or Failure. Should the student receive a conditional pass, the Committee remains standing until the conditions, specified in writing, have been met. The consequence of a failure is decided by the Committee: (1) no re-examination; (2) re-examination by the same committee; (3) re-examination in written form and conducted by the same committee; or (4) re-examination by a new committee.

## *Primary Data Collection Requirement*

Primary data collection is defined as (1) instrument design; (2) data collection; or (3) data management, quality assurance, and quality control. Primary data collection is required for all PhD and ScD students. This requirement may be met through dissertation research, or may be satisfied through work on projects distinct from the dissertation. It may be obtained through work with a single epidemiologic study, or may be a compilation of several experiences that together fulfill the requirement. Primary data collection may be obtained as part of paid work. Students must document their plan for obtaining experience with primary data collection and submit this plan to their Thesis Advisory Committee with their 12-page dissertation proposal. The Thesis Advisory Committee may approve primary data collection that occurred prior to matriculation to the doctoral program, but this approval is not guaranteed. Any questions regarding primary data collection will be directed from the Thesis Advisory Committee to a Deputy Chair. Students are expected to demonstrate an understanding of primary data collection processes in the epidemiologic study (or studies) utilized for their dissertation. This includes knowledge of the forms, instruments and measurement processes relevant to their research; knowledge of quality control/assurance procedures of the study (or studies); and an evaluation of the potential threats to validity in the processes extending from primary measurement to the analytic dataset. If primary data collection is not a direct component of the dissertation research, doctoral students should include their primary data collection experience as an appendix to the dissertation.

## ***Doctoral Dissertation***

Doctoral students must complete an original investigation presented in the form of a dissertation. The dissertation should be based on original research involving the generation of new knowledge by the student, worthy of publication, and acceptable to the Department of Epidemiology and to the Final Oral Examination Committee (Thesis Readers).

Doctoral students have two options for the format of their dissertation, the traditional format, and the manuscript format. The Department recommends **the manuscript format** to accelerate the time to submission of manuscripts for publication in peer-reviewed journals.

### **MANUSCRIPT FORMAT:**

The manuscript format must meet the following criteria:

- 1) The dissertation includes at least three manuscripts, linked by a common theme;
- 2) The doctoral student must be the first author on each of the manuscripts;
- 3) A manuscript will not be accepted as part of the dissertation if it was submitted before the student's dissertation topic was approved by the Thesis Advisory Committee;
- 4) The manuscripts must be acceptable for publication based on usual substantive area peer review expectations; and
- 5) The dissertation should be organized as follows:
  - The body of the dissertation should include a series of papers that are linked by a common theme (i.e., the student's dissertation topic)
  - The first chapter may be a comprehensive critical literature review suitable for publication. It should introduce the scientific hypothesis for the dissertation
  - Chapters two and three (or more) are the manuscripts, possibly with a transitional short chapter between each relating one to the other
  - A final chapter should integrate and discuss the findings reported in the manuscripts. It should include a discussion of the conclusions drawn from research, a synthesis of the findings, and should make recommendations for further studies
  - The dissertation may include an appendix outlining the details of study methods and any accompanying data tables deemed necessary to fully understand the data

## TRADITIONAL FORMAT:

The traditional format includes:

- 1) An introductory chapter, outlining the theme, hypotheses and/or goals of the dissertation coupled with a review of the literature;
- 2) Research chapters that are coherently structured for the research aims, each providing a reader enough detail to apply similar methods in another study; and
- 3) A concluding chapter with overall analysis and integration of the research and conclusions of the dissertation in light of current research in the field

Regardless of the format, it is expected that the student will work with their adviser and any co-advisers to develop drafts of their dissertation chapters and receive constructive substantive and editorial feedback. Together, they will decide when drafts are ready for wider distribution to other members of the Thesis Advisory Committee and, if necessary, to other project collaborators.

Follow the School's [written guidelines](#) for the preparation of the dissertation. The dissertation is a requirement for partial fulfillment of the PhD and ScD degrees.

Students may consult the School's Policy and Procedures Memorandum for the [PhD](#) and [ScD](#) programs, which are available online.

### ***Final Defense Seminar***

As a culminating experience for the doctoral student, the student will present a formal, public seminar. This requirement provides experience for the student in preparing a formal seminar; provides the faculty and Department with an opportunity to share in the student's accomplishments; and gives the student a sense of finality to the doctoral experience. Students typically present a formal public seminar in conjunction with the Final Oral Examination. If possible, students are encouraged to give their Defense Seminar during the Friday Epidemiology Seminar series (Current Topics; please contact Laura Camarata, [lcamarata@jhu.edu](mailto:lcamarata@jhu.edu), or Ms. Fran Burman, [franburman@jhu.edu](mailto:franburman@jhu.edu), regarding scheduling), but the seminar may be scheduled for any day/time during normal working hours. Students are responsible for making the appropriate [room reservations](#) / [Multimedia requests](#) unless s/he will be presenting as part of the Friday Epidemiology Seminar series (Current Topics).

The final defense seminar is one hour in duration.

## ***Final Oral Examination***

### **Committee Membership (Dissertation (Thesis) Readers)**

- For doctoral students, the Committee consists of four members (the student's primary adviser and three other members), and two alternates
- Members must come from at least three departments within the University, with representation from at least two departments in JHSPH
- Two readers most often are from the Department of Epidemiology (the student's adviser and one other member); with approval of the Committee on Academic Standards, the Department may nominate an individual from outside the Department to replace a departmental reader
- At least one Committee member must be an associate or full professor in a department other than Epidemiology (to serve as Chair of the Examination)
- Either one scientist track or one adjunct faculty member may serve on the Exam Committee, but not both
- The Committee for PhD and ScD students may be increased to five voting members, provided that the conditions stated above are satisfied
- Alternates must hold appointments of assistant professor or higher. Of the two alternates, one must hold an appointment with the Department of Epidemiology and one must hold an appointment in a department other than Epidemiology at the rank of Associate or Full Professor
- The Final Oral Examination committee (Dissertation (Thesis) Readers) should not be confused with the Thesis Advisory Committee
- The final oral examination is three hours total (one for seminar/presentation and two for exam by committee)

### **Distribution of Dissertation to Dissertation (Thesis) Readers**

Committee members are encouraged and expected to communicate to the student specific recommendations for changes in the dissertation prior to the Final Oral Examination. The student is, therefore, expected to distribute the dissertation to the Committee at least four weeks before the date of the Final Oral Examination. The Dissertation Approval Form signed by the student's adviser should accompany the dissertation at the time it is distributed to the committee members.

### **Appointment of Dissertation (Thesis) Readers and Final Oral Examination Committee Form**

This form must be completed and submitted to Registrar's Office in E1002 a minimum of four weeks prior to the proposed examination date. **No exceptions.** The student is responsible for [scheduling the room](#) for the Final Oral Examination. While the Defense Seminar is held in an auditorium or large classroom, the Final Oral Examination usually is held in a smaller classroom or conference room. The Department recommends scheduling the examination in E6130 or W6015.



## **Conduct of the Examination**

If one of the officially appointed Committee members fails to appear on the Final Oral Examination date/time, the previously approved alternate will serve as an examiner. A Final Oral Examination may not be held with fewer than four officially approved faculty members present in the room. The adviser must be among the members present; an alternate may not serve for the adviser. Only approved Committee members are permitted to participate as examiners. During the Final Oral Examination, the Committee will evaluate: (a) the originality and publication potential of the research; (b) the candidate's understanding of the details of the methodologic and analytic work; and (c) the final quality of the written dissertation document. The examination committee chair along with the examiners will determine the details of how the Final Oral Examination is conducted.

The final oral examination should have two hours allotted, and can take up to that amount of time in duration.

## **Examination Outcome**

The possible outcome of the Final Oral Examination based on the student's performance and written dissertation is determined by closed ballot as Acceptable, Conditionally Acceptable, or Unacceptable. If one or more members require substantive changes to the dissertation (Conditionally Acceptable), the specific nature of these changes and the time expected for the student to complete them will be provided to the student in writing. The appropriately revised dissertation must be submitted to each of the members for final approval. If one or more members feel that the candidate's understanding of the written dissertation is inadequate (Unacceptable), or that the dissertation in its present form is not acceptable, then the candidate has failed. Re-examination would be in order unless there is a unanimous recommendation to the contrary. Re-examination is normally conducted by the same committee, but a new committee may be selected by the School's Chair of the Committee on Academic Standards if petitioned by the student.

# FLOWCHART AND GRADUATION DEADLINES BY DEGREE (DOCTORAL)

## Timeline and Graduation Deadline by Degree (Doctoral)

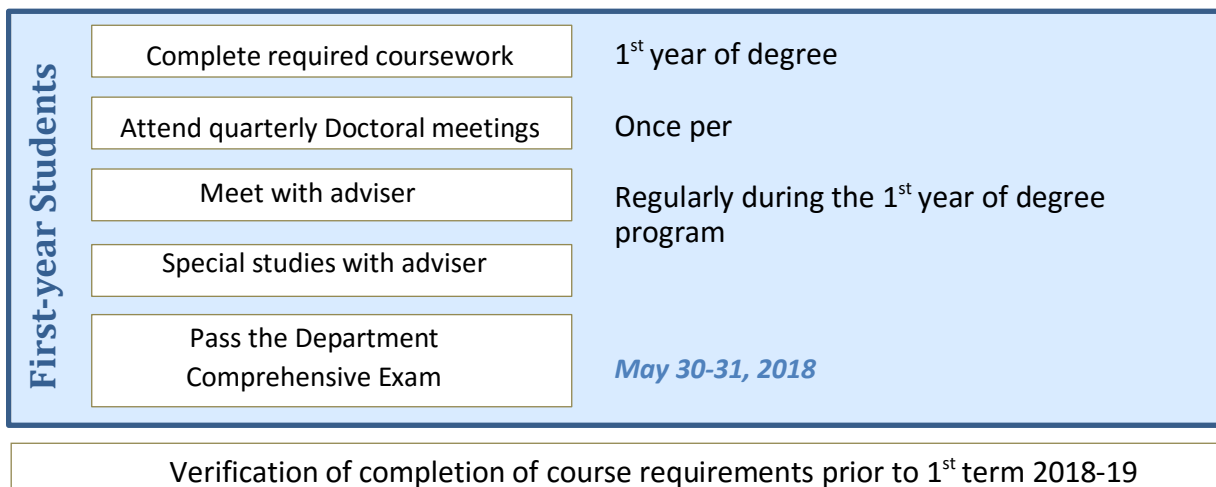
Timelines for graduation by degree are presented in this section.

**Please note:** Dates are subject to change. Students may access the most recent timelines [online](#).

Students who plan to graduate Summer 2018 should use the above [link](#) to identify timelines, and consult the Academic Program Manager, Ms. Frances Burman ([franburman@jhu.edu](mailto:franburman@jhu.edu)) with any questions.

Per the School's Policies and Procedures Memorandum, not more than seven years (28 terms of continuous registration) may elapse between the date of matriculation and fulfillment of all requirements for the PhD and ScD degrees with two exceptions: students who have been approved for formal leaves of absence or with approved requests for extensions to the time limit. Should a doctoral student be granted an extension, the Preliminary Oral Examination should be completed within 3 years after the extension was granted.

## Flowchart for the Doctoral Program



## Flowchart for the Doctoral Program (continued)



# MASTERS PROGRAMS (MHS & ScM)

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Dear Incoming Masters Students,

Welcome to the Johns Hopkins Bloomberg School of Public Health Department of Epidemiology. In just a few short weeks, you will be joining us here in Baltimore, and we are looking forward to meeting each of you. Before you arrive, please make sure that you have completed the required tasks outlined on the CoursePlus website, and the readings for your associated track. A few things to keep in mind for the upcoming year:

- 1) Our courses are in 8 week blocks (Fall, Early Winter, Late Winter, Spring and Summer), and this means that things move very quickly (as compared to traditional semesters). For example, midterms are held within 4 weeks of the start of classes. We encourage you to stay on top of all of your coursework. If you have any difficulties please let us know **early** so we can assist you. We would like to insure your success in our program as best we can.
- 2) Each of you will be assigned an academic advisor for your first year in the program. Along with ~8 of your colleagues you will meet with your academic advisor monthly. We hope this affords you an opportunity to get to know a group of fellow students and a faculty member in this Department. You will meet your academic advisor at orientation. At the end of the first year, you will identify a thesis advisor who will work with you to develop and complete your Masters thesis.
- 3) Please be sure to meet with your track director and track faculty at orientation. Each track hosts journal clubs and research-in-progress meetings that we expect you to attend. These, along with other seminars throughout the department, school and University are an excellent opportunity to learn about ongoing research, develop your own research questions, and engage with faculty and fellow trainees.
- 4) We host quarterly meetings with all of the Masters students (1<sup>st</sup> and 2<sup>nd</sup> year) at which your attendance is expected. Your academic advisors will also join us at these meetings. More information will be forthcoming from your Masters Students Epidemiology Student Organization (ESO) representatives.

We hope that your two years with us is a fruitful and exciting time. We know that you have chosen to be at Johns Hopkins Department of Epidemiology for various reasons from our research, faculty, location, and reputation—but we hope that you each leave us well-trained and energized to be a part of the greater Public Health community. If you have any questions or concerns during your time here, please reach out to us and we will do our best to assist.

Sincerely,

A handwritten signature in black ink that reads "Priya Duggal".

Priya Duggal, PhD, MPH  
Director, Masters Program  
Associate Professor

A handwritten signature in black ink that reads "Corinne Joshu".

Corinne Joshu, PhD, MPH  
Co-Director, Masters Program  
Assistant Professor

Department of Epidemiology  
615 North Wolfe Street, E6519 | Baltimore, MD 21205 | 410-955-1213 | pduggal@jhu.edu

## MASTER OF HEALTH SCIENCE AND MASTER OF SCIENCE DEGREE PROGRAMS

Master of Health Science (MHS) and Master of Science (ScM) degree programs begin in late August/early September, with the first year devoted to coursework followed by research and thesis, usually requiring an additional year in residence. The MHS and ScM degrees are similar with regard to the required coursework, but they differ both in entrance requirements and the depth of research conducted.

The **MHS** degree is designed for students interested in gaining knowledge and training in Epidemiology who may not have had significant prior work experience in the field. MHS candidates may apply directly from undergraduate programs as long as they have had some scientific, biologic, research, or laboratory experience and have met the prerequisite courses. MHS students may fulfill the thesis requirement by completing a systematic literature review, performing secondary data analysis, or completing a program or project proposal.

The **BA/MHS** degree is designed for undergraduate students at Johns Hopkins University who are majoring in Public Health Studies and who are already interested in pursuing an advanced degree through the combined degree program at JHSPH. The Bachelor of Arts (BA) and the Master of Health Science (MHS) combined degree program prepares students for further graduate work or prominent careers in research and science. The benefit of the BA/MHS is that it allows Johns Hopkins University undergraduates (only) to take JHSPH courses during their undergraduate program and apply up to 16 credits accumulated as undergraduates in the MHS program. Students who complete the BA at JHU, become MHS candidates and follow the MHS program, with a compressed version of the masters degree encouraged.

The **ScM** is designed for students who have completed the prerequisite courses and have had at least one year of work experience in epidemiology or another scientific field. Successful applicants have published manuscripts and/or have conducted lab or field research. The ScM requires degree candidates to complete an original research project with depth and understanding of epidemiology and the topic area. ScM students submit their publishable quality thesis for approval to the University Graduate Board.

Both the MHS and ScM programs require that students complete at least 64 credits of coursework with a cumulative average GPA of 2.75 or higher, successfully pass the Department Comprehensive Examination, and produce a thesis of their own work. Students work closely with their thesis advisers to develop their research question and design their projects.

<http://www.jhsph.edu/departments/epidemiology/degree-programs/master-of-health-science- and-master-of-science/>

## ACADEMIC ADVISING

Masters students are each assigned a Master academic adviser in their first year of the program. The Master adviser is an academic adviser who meets with a group of MHS/ScM advisees monthly to discuss academic and departmental issues. The 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 4<sup>th</sup> term of the first year, the student with input from the Master advisor will identify 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, the Master adviser or another faculty member with a primary appointment in the department will co-advise with the thesis adviser, and serve as the primary adviser of record.

All Master's students are required to meet with their thesis adviser at least once in the 4<sup>th</sup> term of their first year. Students should work with their thesis adviser 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.

## REQUIREMENTS

### *Residency*

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. Other than for BA/MHS students, the MHS and ScM degree programs usually require two years of full-time registration to complete the required coursework and thesis.

### *Track-Specific Activities*

Each Track holds journal clubs, research in progress meetings, and other activities that Track students are expected to attend ([list](#)). All master's students are expected to participate in these activities, which are opportunities to engage and interact with Track faculty and fellow students and post-doctoral fellows, and to participate and present in the topic area of the Track.

### *Quarterly Masters Meetings*

The Master's Program Directors host quarterly meetings with all of the first and second year Master's students. All Master's students are expected to attend. These meetings provide a forum to learn about academic policies and deadlines, and for students to raise questions and concerns and for all to hear the answers.

### *Academic Ethics Requirement*

All master's students must enroll in 550.860.82 Academic & Research Ethics during the first term of enrollment at JHSPH.

### *Responsible Conduct of Research Requirement*

The Responsible Conduct of Research course is required only for Masters students who are supported by a National Institutes of Health (NIH) training grant, career development award (individual or institutional), research education grant, or dissertation research grant (including D43, D71, F05, F30, F31, F32, F33, F34, F37, F38, K01, K02, K05, K07, K08, K12, K18, K22, K23, K24, K25, K26, K30, K99/R00, KL1, KL2, R36, T15, T32, T34, T35, T36, T37, T90/R90, TL1, TU2, and U2R).

This requirement can be met by completing either of the following two courses:

- 550.600 Responsible Conduct of Research (1st term) or
- 306.665 Research Ethics and Integrity (3rd term)

### *Avoiding Plagiarism Course Requirement*

All incoming masters students are required to successfully complete the online module, *Avoiding Plagiarism at JHU*. The module takes, on average, one hour to complete but can take up to 3-4 hours. The course can be accessed multiple times. All students are required to complete this online course by the end of their first term enrolled. When completed, students will receive a certificate of completion. Students must send a copy of the certificate to the Academic Program Manager, Ms. Fran Burman, at [franburman@jhu.edu](mailto:franburman@jhu.edu), with their name and "Avoiding Plagiarism Certificate" in the subject line of the email.

For instructions and to enroll in the course, please visit [link](#) (JHED login required):

[www.library.jhu.edu/files/avoidplaginstruct.pdf](http://www.library.jhu.edu/files/avoidplaginstruct.pdf)

## ***Academic Coursework***

A minimum of 64 credits are required to complete either the MHS or ScM degree. 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 JHSPH. Full-time students should register for a minimum of 16 credits and a maximum of 22 credits each term.

## Core Coursework (REQUIRED for all MHS and ScM students)

### Masters Students Required Core Coursework

#### Summer Before Year 1

	Credits
340.994.81 Incoming Epidemiology Students Orientation includes: Introduction to Online Learning Sexual Harrassment and Sexual Violence Prevention Training Avoiding Plagiarism	0

#### Year 1

##### First Term

	Credits
<a href="#">140.621.02</a> Statistical Methods in Public Health I or	4
<a href="#">140.651</a> Methods in Biostatistics	4
<a href="#">340.751</a> Epidemiologic Methods I	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	1
<a href="#">550.860</a> Academic and Research Ethics at JHSPH	0

##### Second Term

	Credits
<a href="#">140.622.02</a> Statistical Methods in Public Health II or	4
<a href="#">140.652</a> Methods in Biostatistics II	4
<a href="#">340.752</a> Epidemiologic Methods II	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	1
<a href="#">550.865</a> Public Health Perspectives in Research*	2

\*may be waived if student holds MPH from a CEPH accredited program in past 10 yrs

##### Third Term

	Credits
<a href="#">140.623.02</a> Statistical Methods in Public Health III or	4
<a href="#">140.653</a> Methods in Biostatistics III	4
<a href="#">340.753</a> Epidemiologic Methods III	5
<a href="#">340.853</a> First Year Epidemiology Doctoral Smeinar	1
<a href="#">340.860</a> Current Topics in Epidemiologic Research	1



**Fourth Term**

		<b>Credits</b>
<a href="#">140.624</a>	Statistical Methods in Public Health IV	4
	or	
<a href="#">140.654</a>	Methods in Biostatistics IV	4
<a href="#">340.664</a>	Beyond Causal Inference: Epidemiologic Methods for Monitoring Population Health	2
<a href="#">340.840</a>	Thesis Research Epidemiology w/ adviser	variable
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	1

\*\* Please add recommended and elective courses to total 16 credits per term.

**Department Comprehensive Examination**

passed Parts A&B- immediately following Fourth Term

**Year 2****First Term**

		<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	variable

**Second Term**

		<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	variable

**Third Term**

		<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	variable

**Fourth Term**

		<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	variable

### **ADDITIONAL CORE REQUIREMENT**

ONE introductory topical epidemiology course outside of chosen track. Choices below:

<b>Term</b>			<b>Credits</b>
1	<a href="#">340.616</a>	Epidemiology of Aging	3
1	<a href="#">340.731</a>	Principles of Genetic Epidemiology 1	4
2	<a href="#">340.682</a>	Pharmacoepidemiology and Methods	3
2	<a href="#">330.603</a>	Psychiatric Epidemiology	3
2	<a href="#">340.624</a>	Etiology, Prevention, and Control of Cancer	4
2	<a href="#">340.627</a>	Epidemiology of Infectious Diseases	4
2	<a href="#">340.645</a>	Introduction to Clinical Trials	3
2	<a href="#">340.666</a>	Foundations of Social Epidemiology	3
3	<a href="#">340.607</a>	Introduction to Cardiovascular Disease Epidemiology	4
4	<a href="#">340.680</a>	Environmental and Occupational Epidemiology	4
4	<a href="#">380.664</a>	Reproductive and Perinatal Epidemiology	4

\*\* Please add recommended and elective courses to total 16 credits per term.

### **RECOMMENDED COURSES**

<b>Term</b>			<b>Credits</b>
1-4*	<a href="#">340.840</a>	Current Topics in Epidemiologic Research <i>* recommended for all four terms <b>during year 2</b></i>	variable
2	<a href="#">340.770.01</a>	Public Health Surveillance	3
3	<a href="#">340.769</a>	Professional Epidemiology Methods	4
1-4*	<a href="#">340.840</a>	Special Studies & Research Epidemiology - <a href="#">Community Engagement</a> <i>* 1 term, can be taken in any term 1 through 4</i>	variable

## Additional Coursework by Track (Masters)

### Masters Students Cancer Epidemiology Required Coursework

Summer Before Year 1		
	Type	Credits
340.994.81 Incoming Epidemiology Students Orientation includes: Introduction to Online Learning Sexual Harassment and Sexual Violence Prevention Training Avoiding Plagiarism	Core	0
Year 1		
First Term		
	Type	Credits
<a href="#">140.621.02</a> Statistical Methods in Public Health I or <a href="#">140.651</a> Methods in Biostatistics I <a href="#">340.751</a> Epidemiologic Methods I <a href="#">340.860</a> Current Topics in Epidemiologic Research <a href="#">550.860</a> Academic and Research Ethics at JHSPH <a href="#">340.731</a> Principles of Genetic Epidemiology I* <i>*(satisfies the topical epidemiology course requirement)</i>	Core  Core Core Core Track	4  4 5 1 0 4
Second Term		
	Type	Credits
<a href="#">140.622.02</a> Statistical Methods in Public Health II or <a href="#">140.652</a> Methods in Biostatistics II <a href="#">340.752</a> Epidemiologic Methods II <a href="#">340.860</a> Current Topics in Epidemiologic Research <a href="#">550.865</a> Public Health Perspectives in Research* <i>*may be waived if student holds MPH from a CEPH accredited program in past 10 yrs</i>  <a href="#">340.624</a> Etiology, Prevention and Control of Cancer <a href="#">340.732</a> Principles of Genetic Epidemiology II	Core  Core Core Core  Track Track	4  4 5 1 2  4 3
Third Term		
	Type	Credits
<a href="#">140.623.02</a> Statistical Methods in Public Health III or <a href="#">140.653</a> Methods in Biostatistics III <a href="#">340.753</a> Epidemiologic Methods III <a href="#">340.860</a> Current Topics in Epidemiologic Research	Core  Core Core Core	4  4 5 1

**Fourth Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">140.624</a>	Statistical Methods in Public Health IV or	Core	4
<a href="#">140.654</a>	Methods in Biostatistics IV		4
<a href="#">340.664</a>	Beyond Causal Inference: Epidemiologic Methods for Monitoring Population Health	Core	2
<a href="#">340.840</a>	Thesis Research Epidemiology w/ adviser	Core	variable
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1

\*\* Please add recommended and elective courses to total 16 credits per term.

**Department Comprehensive Examination**

passed Parts A&B- immediately following Fourth Term

**Year 2****First Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable
ME510.706	Fundamentals of Cancer: Cause to Cure* *School of Medicine Course	Track	

**Second Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable
<a href="#">180.640</a>	Molecular Epidemiology and Biomarkers in Public Health	Track	4

**Third Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

**Fourth Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

**CORE REQUIREMENT**

ONE introductory topical epidemiology course outside of chosen track.

*(Cancer Epidemiology Track requires all students take 340.731, and this satisfies the ONE introductory topical epidemiology course requirement)*

Term	<a href="#">340.731</a>	Principles of Genetic Epidemiology 1	Credits
1	<a href="#">340.731</a>	Principles of Genetic Epidemiology 1	4

\*\* Please add recommended and elective courses to total 16 credits per term.

**\* School of Medicine courses run longer than School of Public Health Courses  
the required SOM courses may run across 2 JHSPH terms**

## Cancer Epidemiology Masters Student Recommended Coursework

### CORE RECOMMENDED COURSES

- 340.770 Public Health Surveillance (2<sup>nd</sup> term)
- 340.769 Professional Epidemiology Methods (3<sup>rd</sup> term)
- 340.860 Current Topics in Epidemiologic Research (Year 2 1-4<sup>th</sup> terms)
- 340.840 Special Studies – Community Engagement

### TRACK RECOMMENDED COURSES

- 340.660 Practical Skills in Conducting Research in Clinical Epidemiology and Investigation (1<sup>st</sup> term)
- 340.728 Advanced Methods for the Design and Analysis of Cohort Studies (1<sup>st</sup> term)
- 340.774 Advanced Theory and Methods in Epidemiology (2<sup>nd</sup> term, after Year 1)
- 140.630 Introduction to Data Management (2<sup>nd</sup> term)
- 180.650 Fundamentals of Clinical Oncology for Public Health Practitioners (2<sup>nd</sup> term)
- 330.603 Psychiatric Epidemiology (2<sup>nd</sup> term)
- 340.645 Introduction to Clinical Trials (2<sup>nd</sup> term)
- 340.666 Foundations of Social Epidemiology (2<sup>nd</sup> term, offered every other year)
- 340.682 Pharmacoepidemiology Methods (2<sup>nd</sup> term)
- 340.606 Systematic Reviews and Meta-Analysis (3<sup>rd</sup> term)
- 340.694 Power and Sample Size for the Design of Epidemiological Studies (3<sup>rd</sup> term)
- 140.632 Introduction to the SAS Statistical Package (4<sup>th</sup> term)
- 340.616 Epidemiology of Aging (1<sup>st</sup> term)
- 340.680 Environmental and Occupational Epidemiology (4<sup>th</sup> term)
- 380.664 Reproductive and Perinatal Epidemiology (4<sup>th</sup> term)

### *SUMMER INSTITUTE COURSE:*

*Department students may register for Summer Institute courses for an additional tuition fee*

- 340.724.11 Global Cancer Epidemiology

## Masters Students

### Cardiovascular and Clinical Epidemiology Required Coursework

#### Summer Before Year 1

	Type	Credits
340.994.81 Incoming Epidemiology Students Orientation includes: Introduction to Online Learning Sexual Harassment and Sexual Violence Prevention Training Avoiding Plagiarism	Core	0

#### Year 1

##### First Term

	Type	Credits
<a href="#">140.621.02</a> Statistical Methods in Public Health I or	Core	4
<a href="#">140.651</a> Methods in Biostatistics I		4
<a href="#">340.751</a> Epidemiologic Methods I	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.860</a> Academic and Research Ethics at JHSPH	Core	0
<a href="#">340.871.01</a> Welch Center Research Seminar <i>students are required to take 2 terms of WCRS in yr 1; most take it all 4 terms</i>	Track	1

#### **Students without background in biology or medicine:**

<a href="#">260.600.01</a> Introduction to the Biomedical Sciences* or	Track	4
<a href="#">550.630.01</a> Public Health Biology  <i>*offered during summer (last two weeks of August) before 1st term as either an 8-week online course (260.600.81) or 2-week in-person course (260.600.01). Counts towards 1st term credits; registrants must indicate this course on their FIRST term registrations, NOT their summer term.</i>		4

##### Second Term

	Type	Credits
<a href="#">140.622.02</a> Statistical Methods in Public Health II or	Core	4
<a href="#">140.652</a> Methods in Biostatistics II		4
<a href="#">340.752</a> Epidemiologic Methods II	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.865</a> Public Health Perspectives in Research* <i>*may be waived if student holds MPH from a CEPH accredited program in past 10 yrs</i>	Core	2
<a href="#">340.871.01</a> Welch Center Research Seminar	Track	1
<a href="#">340.645.01</a> Introduction to Clinical Trials	Track	3

#### **Clinical Epi Students only**

<a href="#">340.620.01</a> Principles of Clinical Epidemiology	Track	2
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**Third Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">140.623.02</a>	Statistical Methods in Public Health III	Core	4
	or		
<a href="#">140.653</a>	Methods in Biostatistics III		4
<a href="#">340.753</a>	Epidemiologic Methods III	Core	5
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.871.01</a>	Welch Center Research Seminar	Track	1

**Cardiovascular Disease students only**

<a href="#">340.607</a>	Introduction to Cardiovascular Disease Epidemiology	Track	4
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**Fourth Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">140.624</a>	Statistical Methods in Public Health IV	Core	4
	or		
<a href="#">140.654</a>	Methods in Biostatistics IV		4
<a href="#">340.664</a>	Beyond Causal Inference: Epidemiologic Methods for Monitoring Population Health	Core	2
<a href="#">340.840</a>	Thesis Research Epidemiology w/ adviser	Core	variable
<a href="#">340.860</a>	Current Topics in Epidemiologic Research Welch	Core	1
<a href="#">340.871.01</a>	Center Research Seminar	Track	1

**Cardiovascular Disease students only**

<a href="#">340.803</a>	Advanced Topics in Cardiovascular Disease Epidemiology	Track	2
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**Cardiovascular Disease students without a background in medicine**

<a href="#">340.855</a>	Biological Basis of Cardiovascular Disease Epidemiology	Track	2
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\*\* Please add recommended and elective courses to total 16 credits per term.

**Department Comprehensive Examination**

passed Parts A&B- immediately following Fourth Term



## Year 2

### First Term

		Type	Credits
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

### Second Term

		Type	Credits
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

### Third Term

		Type	Credits
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

#### **Cardiovascular Disease students without a background in medicine**

<a href="#">340.730</a>	Assessment of Clinical Cardiovascular Disease	Track	
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### Fourth Term

		Type	Credits
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

#### **ADDITIONAL CORE REQUIREMENT**

ONE introductory topical epidemiology course outside of chosen track. Choices below:

Term		Credits
1	<a href="#">340.616</a> Epidemiology of Aging	3
1	<a href="#">340.731</a> Principles of Genetic Epidemiology 1	4
2	<a href="#">340.682</a> Pharmacoepidemiology and Methods	3
2	<a href="#">330.603</a> Psychiatric Epidemiology	3
2	<a href="#">340.624</a> Etiology, Prevention, and Control of Cancer	4
2	<a href="#">340.627</a> Epidemiology of Infectious Diseases	4
2	<a href="#">340.645</a> Introduction to Clinical Trials	3
2	<a href="#">340.666</a> Foundations of Social Epidemiology	3
4	<a href="#">340.680</a> Environmental and Occupational Epidemiology	4
4	<a href="#">380.664</a> Reproductive and Perinatal Epidemiology	4

\*\* Please add recommended and elective courses to total 16 credits per term.

## Cardiovascular and Clinical Epidemiology Masters Student Recommended Coursework

### CORE RECOMMENDED COURSES

- 340.770 Public Health Surveillance (2<sup>nd</sup> term)
- 340.769 Professional Epidemiology Methods (3<sup>rd</sup> term)
- 340.860 Current Topics in Epidemiologic Research (Year 2 1-4<sup>th</sup> terms)
- 340.840 Special Studies – Community Engagement

### TRACK RECOMMENDED COURSES

All MHS and ScM students in the Cardiovascular and Clinical Epidemiology Track:

*Topical Courses (no prerequisites required, can be taken Year 1 or later)*

- 340.687 Epidemiology of Kidney Disease (1<sup>st</sup> term, 2 credits)
- 340.731 Principles of Genetic Epidemiology (1<sup>st</sup> term, 4 credits)
- 340.624 Etiology, Prevention and Control of Cancer (2<sup>nd</sup> term, 4 credits)
- 340.627 Epidemiology of Infectious Diseases (2<sup>nd</sup> term, 4 credits)
- 180.640 Molecular Epidemiology and Biomarkers in Public Health (3<sup>rd</sup> term, 4 credits)
- 340.606 Systematic Reviews and Meta-Analysis (3<sup>rd</sup> term, 6 credits) [usually taken in Year 2]
- 340.616 Epidemiology of Aging (1<sup>st</sup> term, 3 credits)
- 340.644 Epidemiology of Diabetes and Obesity (4<sup>th</sup> term, 3 credits)

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

- 140.632 Introduction to the SAS Statistical Package (4<sup>th</sup> term, 3 credits)
- 340.600 Stata Programming (4<sup>th</sup> term, 2 credits)

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

- 140.641 Survival Analysis (1<sup>st</sup> term, 3 credits)
- 140.776 Statistical Computing (1<sup>st</sup> term, 3 credits)
- 340.660 Practical Skills in Conducting Research in Clinical Epidemiology and Investigation (1<sup>st</sup> term, 3 credits)
- 340.728 Advanced Methods for the Design and Analysis of Cohort Studies (1<sup>st</sup> term, 4 credits)
- 340.774 Advanced Theory and Methods in Epidemiology (2<sup>nd</sup> term, 4 credits)
- 340.717 Health Survey Research Methods (2<sup>nd</sup> term, 4 credits)
- 140.655 Analysis of Longitudinal Data (3<sup>rd</sup> term, 4 credits)
- 140.664 Causal Inference in Medicine and Public Health I (3<sup>rd</sup> term in-person, 4<sup>th</sup> term online, 4 credits)

MHS and ScM students with a focus in Cardiovascular Epidemiology:

- 140.651 Methods in Biostatistics I (1<sup>st</sup> term, 4 credits)
- 140.652 Methods in Biostatistics II (2<sup>nd</sup> term, 4 credits)
- 140.653 Methods in Biostatistics III (3<sup>rd</sup> term, 4 credits)
- 140.654 Methods in Biostatistics IV (4<sup>th</sup> term, 4 credits)
- 340.620 Principles of Clinical Epidemiology (2<sup>nd</sup> term, 2 credits)

MHS and ScM students with a focus in Clinical Epidemiology:

- 309.712 Assessing Health Status and Patient Outcomes (2<sup>nd</sup> term, 3 credits)
- 340.607 Introduction to Cardiovascular Disease Epidemiology (3<sup>rd</sup> term, 4 credits)
- 340.803 Advanced Topics in Cardiovascular Disease Epidemiology (4<sup>th</sup> term, offered every other year, 2 credits)
- \*Recommended courses for students without a background in medicine:
  - 340.730 Assessment of Clinical Cardiovascular Disease (3<sup>rd</sup> term, offered every other year, 2 credits)
  - 340.855 Biological Basis of Cardiovascular Disease (4<sup>th</sup> term, offered every other year, 2 credits)

\* 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

## Masters Students

### Clinical Trials and Evidence Synthesis Required Coursework

#### Summer Before Year 1

	Type	Credits
340.994.81 Incoming Epidemiology Students Orientation includes: Introduction to Online Learning Sexual Harassment and Sexual Violence Prevention Training Avoiding Plagiarism	Core	0

#### Year 1

##### First Term

	Type	Credits
<a href="#">140.621.02</a> Statistical Methods in Public Health I or	Core	4
<a href="#">140.651</a> Methods in Biostatistics I		4
<a href="#">340.751</a> Epidemiologic Methods I	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.860</a> Academic and Research Ethics at JHSPH	Core	0

##### Second Term

	Type	Credits
<a href="#">140.622.02</a> Statistical Methods in Public Health II or	Core	4
<a href="#">140.652</a> Methods in Biostatistics II		4
<a href="#">340.752</a> Epidemiologic Methods II	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.865</a> Public Health Perspectives in Research* <i>*may be waived if student holds MPH from a CEPH accredited program in past 10 yrs</i>	Core	2
<a href="#">340.645</a> Introduction to Clinical Trials	Track	3

##### Third Term

	Type	Credits
<a href="#">140.623.02</a> Statistical Methods in Public Health III or	Core	4
<a href="#">140.653</a> Methods in Biostatistics III		4
<a href="#">340.753</a> Epidemiologic Methods III	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">340.633</a> Data Management in Clinical Trials	Track	3

**Fourth Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">140.624</a>	Statistical Methods in Public Health IV	Core	4
	or		
<a href="#">140.654</a>	Methods in Biostatistics IV		4
<a href="#">340.664</a>	Beyond Causal Inference: Epidemiologic Methods for Monitoring Population Health	Core	2
<a href="#">340.840</a>	Thesis Research Epidemiology w/ adviser	Core	variable
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.648</a>	Clinical Trials Management	Track	3

\*\* Please add recommended and elective courses to total 16 credits per term.

**Department Comprehensive Examination**

passed Parts A&B- immediately following Fourth Term

**Year 2****First Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

**Second Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

**Third Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable
<a href="#">140.655</a>	Analysis of Longitudinal Data	Track	4
<a href="#">340.606</a>	Systematic Reviews and Meta-Analysis	Track	6

**Fourth Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

**ADDITIONAL CORE REQUIREMENT**

ONE introductory topical epidemiology course outside of chosen track. Choices below:

<b>Term</b>			<b>Credits</b>
1	<a href="#">340.616</a>	Epidemiology of Aging	3
1	<a href="#">340.731</a>	Principles of Genetic Epidemiology 1	4
2	<a href="#">340.682</a>	Pharmacoepidemiology and Methods	3
2	<a href="#">330.603</a>	Psychiatric Epidemiology	3
2	<a href="#">340.624</a>	Etiology, Prevention, and Control of Cancer	4
2	<a href="#">340.627</a>	Epidemiology of Infectious Diseases	4
2	<a href="#">340.666</a>	Foundations of Social Epidemiology	3
3	<a href="#">340.607</a>	Introduction to Cardiovascular Disease Epidemiology	4
4	<a href="#">340.680</a>	Environmental and Occupational Epidemiology	4
4	<a href="#">380.664</a>	Reproductive and Perinatal Epidemiology	4

\*\* Please add recommended and elective courses to total 16 credits per term.

## Clinical Trials and Evidence Synthesis Epidemiology Masters Student Recommended Coursework

### CORE RECOMMENDED COURSES

- 340.770 Public Health Surveillance (2<sup>nd</sup> term)
- 340.769 Professional Epidemiology Methods (3<sup>rd</sup> term)
- 340.860 Current Topics in Epidemiologic Research (Year 2 1-4<sup>th</sup> terms)
- 340.840 Special Studies – Community Engagement

### TRACK RECOMMENDED COURSES

- 140.633 Biostatistics in Medical Product Regulation (1<sup>st</sup> term)
- 140.641 Survival Analysis (1<sup>st</sup> term)
- 221.722 Quality Assurance Management Methods for Developing Countries (1<sup>st</sup> term)
- 223.672 Data Management Methods in Health (1<sup>st</sup> term, 4<sup>th</sup> term)
- 223.705 Clinical Vaccine Trials & Good Clinical Practice (GCP) (1<sup>st</sup> term, 4<sup>th</sup> term)
- 317.600 Introduction to the Risk Sciences & Public Policy (1<sup>st</sup> term, 3<sup>rd</sup> term)
- 340.660 Practical Skills in Planning, Organizing & Conducting Clinical Research in Epidemiology (1<sup>st</sup> term)
- 340.728 Advanced Methods for the Design and Analysis of Cohort Studies (1<sup>st</sup> term)
- 390.631 Principles of Drug Development (1<sup>st</sup> term)
- 390.673 Ethical & Regulatory Issues in Clinical Research (1<sup>st</sup> term)
- 140.630 Introduction to Data Management (2<sup>nd</sup> term)
- 340.717 Health Survey Research Methods (2<sup>nd</sup> term)
- 410.710 Concepts in Qualitative Research for Social and Behavioral Sciences (2<sup>nd</sup> term)
- 140.642 Design of Clinical Experiments (3<sup>rd</sup> term)
- 140.664 Causal Inference in Medicine and Public Health (3<sup>rd</sup> term, 4<sup>th</sup> term online)
- 140.885 Non-Inferiority and Equivalence Trials (3<sup>rd</sup> term)
- 223.664 Design & Conduct of Community Trials (3<sup>rd</sup> term)
- 224.690 Qualitative Research Theory and Methods (3<sup>rd</sup> term)
- 340.684 Pharmacoepidemiology: Drug Utilization (3<sup>rd</sup> term)
- 340.694 Power & Sample Size for the Design of Epidemiologic Studies (3<sup>rd</sup> term)
- 140.632 Introduction to the SAS Statistical Package (4<sup>th</sup> term)
- 140.656 Multilevel Statistical Models in Public Health (4<sup>th</sup> term)
- 221.616 Ethics of Public Health Practice in Developing Countries (4<sup>th</sup> term)
- 224.691 Qualitative Data Analysis (4<sup>th</sup> term)
- 340.653 Epidemiologic Inference in Outbreak Investigations (4<sup>th</sup> term)
- 390.675 Comparative Effectiveness & Outcomes Research (4<sup>th</sup> term)
- 330.621 Mixed Methods in Mental Health Services Research (Summer term)

*SUMMER INSTITUTE COURSES:*

*Department students may register for Summer Institute courses for an additional tuition fee*

- 340.674 Comparative Effectiveness Research: Emulating a Target Trial Using Observational Data
- 340.676 Bayesian Adaptive Trials

*CERTIFICATE:*

- Track students may be interested in the Certificate in Clinical Trials  
<http://www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-and-non-degree-students/clinical-trials.html>



## Masters Students

### Environmental Epidemiology Required Coursework

#### Summer Before Year 1

	Type	Credits
340.994.81 Incoming Epidemiology Students Orientation includes: Introduction to Online Learning Sexual Harassment and Sexual Violence Prevention Training Avoiding Plagiarism	Core	0

#### Year 1

##### First Term

	Type	Credits
<a href="#">140.621.02</a> Statistical Methods in Public Health I or	Core	4
<a href="#">140.651</a> Methods in Biostatistics I		4
<a href="#">340.751</a> Epidemiologic Methods I	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.860</a> Academic and Research Ethics at JHSPH	Core	0

##### Second Term

	Type	Credits
<a href="#">140.622.02</a> Statistical Methods in Public Health II or	Core	4
<a href="#">140.652</a> Methods in Biostatistics II		4
<a href="#">340.752</a> Epidemiologic Methods II	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.865</a> Public Health Perspectives in Research* <i>*may be waived if student holds MPH from a CEPH accredited program in past 10 yrs</i>	Core	2

##### Third Term

	Type	Credits
<a href="#">140.623.02</a> Statistical Methods in Public Health III or	Core	4
<a href="#">140.653</a> Methods in Biostatistics III		4
<a href="#">340.753</a> Epidemiologic Methods III	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1

**Fourth Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">140.624</a>	Statistical Methods in Public Health IV	Core	4
	or		
<a href="#">140.654</a>	Methods in Biostatistics IV		4
<a href="#">340.664</a>	Beyond Causal Inference: Epidemiologic Methods for Monitoring Population Health	Core	2
<a href="#">340.840</a>	Thesis Research Epidemiology w/ adviser	Core	variable
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.680</a>	Environmental and Occupational Epidemiology	Track	4

\*\* Please add recommended and elective courses to total 16 credits per term.

**Department Comprehensive Examination**

passed Parts A&B- immediately following Fourth Term

**Year 2**

**First Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

**Second Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

**Third Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

**Fourth Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

**ADDITIONAL CORE REQUIREMENT**

ONE introductory topical epidemiology course outside of chosen track. Choices below:

<b>Term</b>			<b>Credits</b>
1	<a href="#">340.616</a>	Epidemiology of Aging	3
1	<a href="#">340.731</a>	Principles of Genetic Epidemiology 1	4
2	<a href="#">340.682</a>	Pharmacoepidemiology and Methods	3
2	<a href="#">330.603</a>	Psychiatric Epidemiology	3
2	<a href="#">340.624</a>	Etiology, Prevention, and Control of Cancer	4
2	<a href="#">340.627</a>	Epidemiology of Infectious Diseases	4
2	<a href="#">340.645</a>	Introduction to Clinical Trials	3
2	<a href="#">340.666</a>	Foundations of Social Epidemiology	3
3	<a href="#">340.607</a>	Introduction to Cardiovascular Disease Epidemiology	4
4	<a href="#">380.664</a>	Reproductive and Perinatal Epidemiology	4

\*\* Please add recommended and elective courses to total 16 credits per term.

## Environmental Epidemiology Masters Student Recommended Coursework

### CORE RECOMMENDED COURSES

- 340.770 Public Health Surveillance (2<sup>nd</sup> term)
- 340.769 Professional Epidemiology Methods (3<sup>rd</sup> term)
- 340.860 Current Topics in Epidemiologic Research (Year 2 1-4<sup>th</sup> terms)
- 340.840 Special Studies – Community Engagement

### TRACK RECOMMENDED COURSES

- 187.610 Public Health Toxicology (1<sup>st</sup> term)
- 188.680 Fundamentals of Occupational Health (1<sup>st</sup> term)
- 317.600 Introduction to the Risk Sciences and Public Policy (1<sup>st</sup> term)
- 182.625 Principles of Occupational and Environmental Hygiene (2<sup>nd</sup> term)
- 317.610 Risk Policy, Management and Communications (2<sup>nd</sup> term)
- 340.624 Etiology, Prevention & Control of Cancer (2<sup>nd</sup> term)
- 340.717 Health Survey Research Methods (2<sup>nd</sup> term)
- 180.601 Environmental Health (3<sup>rd</sup> term)
- 180.640 Molecular Epidemiology and Biomarkers in Public Health (3<sup>rd</sup> term)
- 317.605 Methods in Quantitative Risk Assessment (3<sup>rd</sup> term)
- 182.615 Airborne Particles (4<sup>th</sup> term)
- 183.641 Health Effects of Indoor and Outdoor Air Pollution (4<sup>th</sup> term)
- 188.681 Occupational Health (4<sup>th</sup> term)
- 317.615 Topics in Risk Assessment (4<sup>th</sup> term)

## Masters Students Epidemiology of Aging Required Coursework

### Summer Before Year 1

	Type	Credits
340.994.81 Incoming Epidemiology Students Orientation includes: Introduction to Online Learning Sexual Harassment and Sexual Violence Prevention Training Avoiding Plagiarism	Core	0

### Year 1

#### First Term

	Type	Credits
<a href="#">140.621.02</a> Statistical Methods in Public Health I or	Core	4
<a href="#">140.651</a> Methods in Biostatistics I		4
<a href="#">340.751</a> Epidemiologic Methods I	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.860</a> Academic and Research Ethics at JHSPH	Core	0
<a href="#">340.616</a> Epidemiology of Aging	Track	3

#### Second Term

	Type	Credits
<a href="#">140.622.02</a> Statistical Methods in Public Health II or	Core	4
<a href="#">140.652</a> Methods in Biostatistics II		4
<a href="#">340.752</a> Epidemiologic Methods II	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.865</a> Public Health Perspectives in Research*	Core	2
<i>*may be waived if student holds MPH from a CEPH accredited program in past 10 yrs</i>		

#### Third Term

	Type	Credits
<a href="#">140.623.02</a> Statistical Methods in Public Health III or	Core	4
<a href="#">140.653</a> Methods in Biostatistics III		4
<a href="#">340.753</a> Epidemiologic Methods III	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1

### Fourth Term

		Type	Credits
<a href="#">140.624</a>	Statistical Methods in Public Health IV	Core	4
	or		
<a href="#">140.654</a>	Methods in Biostatistics IV		4
<a href="#">340.664</a>	Beyond Causal Inference: Epidemiologic Methods for Monitoring Population Health	Core	2
<a href="#">340.840</a>	Thesis Research Epidemiology w/ adviser	Core	variable
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1

\*\* Please add recommended and elective courses to total 16 credits per term.

### Department Comprehensive Examination

passed Parts A&B- immediately following Fourth Term

## Year 2

### First Term

		Type	Credits
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

### Second Term

		Type	Credits
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

### Third Term

		Type	Credits
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

### Fourth Term

		Type	Credits
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

#### **ADDITIONAL CORE REQUIREMENT**

ONE introductory topical epidemiology course outside of chosen track. Choices below:

Term			Credits
1	<a href="#">340.731</a>	Principles of Genetic Epidemiology 1*	4
2	<a href="#">340.624</a>	Etiology, Prevention, and Control of Cancer*	4
2	<a href="#">340.645</a>	Introduction to Clinical Trials*	3
3	<a href="#">340.607</a>	Introduction to Cardiovascular Disease Epidemiology*	4
2	<a href="#">340.627</a>	Epidemiology of Infectious Diseases	4
2	<a href="#">340.682</a>	Pharmacoepidemiology and Methods	3
2	<a href="#">330.603</a>	Psychiatric Epidemiology	3
2	<a href="#">340.666</a>	Foundations of Social Epidemiology	3
4	<a href="#">340.680</a>	Environmental and Occupational Epidemiology	4
4	<a href="#">380.664</a>	Reproductive and Perinatal Epidemiology	4

*\*The Epidemiology of Aging Track recommends these outside topical epidemiology courses as most appropriate choices to fulfill the Core Requirement*

\*\* Please add recommended and elective courses to total 16 credits per term.

## Aging Masters Student Recommended Coursework

### CORE RECOMMENDED COURSES

- 340.770 Public Health Surveillance (2<sup>nd</sup> term)
- 340.769 Professional Epidemiology Methods (3<sup>rd</sup> term)
- 340.860 Current Topics in Epidemiologic Research (Year 2 1-4<sup>th</sup> terms)
- 340.840 Special studies – Community Engagement

### TRACK RECOMMENDED COURSES

#### *STRONGLY RECOMMENDED:*

- 330.802 Seminar on Aging, Cognition & Neurodegenerative Disorders (All 4 terms)
- 309.605 Health Issues for Aging Populations (Year 1, 1<sup>st</sup> term)
- 340.774 Advanced Theory and Methodology in Epidemiology (Year 2, 2<sup>nd</sup> term)
- 309.607 Innovations in Health Care of Aging Populations (Year 1, 2<sup>nd</sup> term)
- 330.657 Statistics for Psychosocial Research: Measurement (After Year 1, 1<sup>st</sup> term)
- 140.658 Statistics for Psychosocial Research: Structural Models (After Year 1, 2<sup>nd</sup> term)
- 340.620 Principles of Clinical Epidemiology (2<sup>nd</sup> term)
- 140.655 Analysis of Longitudinal Data (After Year 1, 3<sup>rd</sup> term)
- 260.665 Biological Basis of Aging (3<sup>rd</sup> term)
- 140.656 Multilevel Statistical Models in Public Health (After Year 1, 4<sup>th</sup> term)
- 330.618 Mental Health in Later Life (4<sup>th</sup> term)

#### *RECOMMENDED:*

- 140.641 Survival Analysis (1<sup>st</sup> term)
- 380.604 Life Course Perspectives on Health (1<sup>st</sup> term)
- 340.728 Advanced Methods for the Design and Analysis of Cohort Studies (after Year 1, 1<sup>st</sup> term)
- 340.666 Foundations of Social Epidemiology (2<sup>nd</sup> term, 4<sup>th</sup> term online; in person and online sections alternate years)
- 380.603 Demographic Methods for Public Health (2<sup>nd</sup> and 3<sup>rd</sup> terms)
- 340.699 Epidemiology of Sensory Loss in Aging (3<sup>rd</sup> term)
- 330.623 Brain and Behavior in Mental Disorders (4<sup>th</sup> term)

#### *CERTIFICATE:*

*Track students may be interested in Certificate in Gerontology*

- <http://www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-students/gerontology.html>

## Masters Students

### General Epidemiology and Methodology Required Coursework

#### Summer Before Year 1

	Type	Credits
340.994.81 Incoming Epidemiology Students Orientation includes: Introduction to Online Learning Sexual Harassment and Sexual Violence Prevention Training Avoiding Plagiarism	Core	0

#### Year 1

##### First Term

	Type	Credits
<a href="#">140.621.02</a> Statistical Methods in Public Health I or	Core	4
<a href="#">140.651</a> Methods in Biostatistics I		4
<a href="#">340.751</a> Epidemiologic Methods I	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.860</a> Academic and Research Ethics at JHSPH	Core	0
<a href="#">340.731</a> Principles of Genetic Epidemiology <i>(satisfies the topical epidemiology course requirement)</i>	Track	4

##### Second Term

	Type	Credits
<a href="#">140.622.02</a> Statistical Methods in Public Health II or	Core	4
<a href="#">140.652</a> Methods in Biostatistics II		4
<a href="#">340.752</a> Epidemiologic Methods II	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.865</a> Public Health Perspectives in Research* <i>*may be waived if student holds MPH from a CEPH accredited program in past 10 yrs</i>	Core	2
<a href="#">340.645</a> Introduction to Clinical Trials	Track	3

##### Third Term

	Type	Credits
<a href="#">140.623.02</a> Statistical Methods in Public Health III or	Core	4
<a href="#">140.653</a> Methods in Biostatistics III		4
<a href="#">340.753</a> Epidemiologic Methods III	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1



**Fourth Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">140.624</a>	Statistical Methods in Public Health IV or	Core	4
<a href="#">140.654</a>	Methods in Biostatistics IV		4
<a href="#">340.664</a>	Beyond Causal Inference: Epidemiologic Methods for Monitoring Population Health	Core	2
<a href="#">340.840</a>	Thesis Research Epidemiology w/ adviser	Core	variable
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1

\*\* Please add recommended and elective courses to total 16 credits per term.

**Department Comprehensive Examination**

passed Parts A&B- immediately following Fourth Term

**Year 2****First Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable
<a href="#">340.660</a>	Practical Skills in Conducting Research in Clinical Epi & InvestigationTrack		3

**Second Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

**Third Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

**Fourth Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

**CORE REQUIREMENT**

ONE introductory topical epidemiology course outside of chosen track.

*(General Epidemiology and Methodology Track requires all students take 340.731, and this satisfies the ONE introductory topical epidemiology course requirement)*

Term	<a href="#">340.731</a>	Principles of Genetic Epidemiology 1	Credits
1			4

\*\* Please add recommended and elective courses to total 16 credits per term.

## General Epidemiology and Methodology Masters Student Recommended Coursework

### CORE RECOMMENDED COURSES

- 340.770 Public Health Surveillance (2<sup>nd</sup> term)
- 340.769 Professional Epidemiology Methods (3<sup>rd</sup> term)
- 340.860 Current Topics in Epidemiologic Research (Year 2 1-4<sup>th</sup> terms)
- 340.840 Special Studies – Community Engagement

### TRACK RECOMMENDED COURSES

*RECOMMENDED:*

MHS & ScM Students with a Methodology focus:

1<sup>st</sup> term Courses:

- 330.657 Statistics for Psychosocial Research: Measurement
- 340.728 Advanced Methods for the Design and Analysis of Cohort Studies (After Year 1)
- 340.646 Epidemiology & Public Health Impact of HIV/AIDS
- 340.660 Practical Skills in Conducting Research in Clinical Epidemiology and Investigation
- 340.616 Epidemiology of Aging

2<sup>nd</sup> term Courses:

- 140.658 Statistics for Psychosocial Research: Structural Models
- 183.631 Fundamentals of Human Physiology
- 260.631 Immunology, Infection and Disease
- 330.603 Psychiatric Epidemiology
- 340.620 Principles of Clinical Epidemiology
- 340.624 Etiology, Prevention & Control of Cancer
- 340.641 Healthcare Epidemiology
- 340.666 Foundations of Social Epidemiology
- 340.732 Principles of Genetic Epidemiology 2
- 340.774 Advanced Theory and Methods in Epidemiology (After Year 1)

3<sup>rd</sup> term Courses:

- 140.640 Statistical Methods for Sample Surveys
- 140.664 Causal Inference in Medicine and Public Health I (Year 2, 3<sup>rd</sup> term, 4<sup>th</sup> term online)
- 150.655 Analysis of Longitudinal Data
- 180.640 Molecular Epidemiology and Biomarkers in Public Health
- 222.647 Nutrition Epidemiology
- 224.690 Qualitative Research: Theory and Methods
- 309.616 Introduction to Methods for Health Services Research and Evaluation I
- 340.606 Systematic Reviews and Meta-Analysis
- 340.607 Introduction to Cardiovascular Disease Epidemiology
- 340.609 Concepts and Methods in Infectious Disease Epidemiology
- 340.733 Principles of Genetic Epidemiology 3

#### 4<sup>th</sup> term Courses:

- 140.656 Multilevel Statistical Models in Public Health
- 140.664 Causal Inference in Medicine and Public Health I (Year 2, 3rd term, 4<sup>th</sup> term online)
- 224.691 Qualitative Data Analysis
- 309.617 Introduction to Methods for Health Services Research and Evaluation II
- 340.653 Epidemiologic Inference in Outbreak Investigations
- 340.667 Infectious Disease Dynamics: Theoretical and Computational Approaches
- 340.680 Environmental and Occupation Epidemiology
- 380.664 Reproductive and Perinatal Epidemiology
- 390.675 Outcomes and Effectiveness Research

#### *RECOMMENDED STATISTICAL PROGRAMMING COMPUTING COURSES:*

It is recommended that methodologists (and epidemiologists in general) become familiar with multiple statistical packages. Each program has its advantages and disadvantages and indeed many methodologists are facile in multiple programs.

- 140.632 Introduction to the SAS Statistical Package
- 140.776 Statistical Computing
- 340.600 Stata Programming
- 340.700 Advanced Stata Programming

#### *STRONGLY RECOMMENDED:*

#### MHS & ScM Students with a Pharmacoepidemiology and Drug Safety focus:

##### 1<sup>st</sup> term Courses:

- 140.633 Biostatistics in Medical Product Registration
- 317.600 Introduction to Risk Sciences & Public Policy
- 390.631 Principles of Drug Development

##### 2<sup>nd</sup> term Courses:

- 317.610 Risk Policy, Management & Communication
- 340.682 Pharmacoepidemiology Methods

##### 3<sup>rd</sup> term Courses:

- 140.664 Causal Inference in Medicine and Public Health
- 340.684 Pharmacoepidemiology: Drug Utilization
- 551.607 Pharmaceuticals Management for Underserved Populations

4<sup>th</sup> term Courses:

- 410.680 Social Ecological Approaches to Adherence to Health Regimes in Chronic Conditions

*RECOMMENDED:*

- 317.605 Methods in Quantitative Risk Assessment (1st term online; 3rd term in-person)
- 317.615 Topics in Risk Assessment (4th term)
- AS.410.651 Clinical Development of Drugs and Biologics (Fall Semester)
- AS.410.627 Translational Biotechnology: Licensing to Approval
- ME.330.809 Analytic Methods in Clinical Pharmacology
- NR.110.508 Clinical Pharmacology (Fall Semester)

*CERTIFICATE:*

*Track students with a pharmacoepidemiology focus may be interested in the Pharmacoepidemiology and Drug Safety certificate*

<http://www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-and-non-degree-students/pharmacoepidemiology-and-drug-safety-certificate.html>

Individualized focus:

Students designing their own educational programs within this Track 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 Track required courses listed above.

**Masters Students**  
**Genetic Epidemiology Required Coursework**

**Summer Before Year 1**

	<b>Type</b>	<b>Credits</b>
340.994.81 Incoming Epidemiology Students Orientation includes: Introduction to Online Learning Sexual Harassment and Sexual Violence Prevention Training Avoiding Plagiarism	Core	0

**Year 1**

**First Term**

	<b>Type</b>	<b>Credits</b>
<a href="#">140.621.02</a> Statistical Methods in Public Health I or	Core	4
<a href="#">140.651</a> Methods in Biostatistics I		4
<a href="#">340.751</a> Epidemiologic Methods I	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.860</a> Academic and Research Ethics at JHSPH	Core	0
<a href="#">340.731</a> Principles in Genetic Epidemiology I	Track	4

**Second Term**

	<b>Type</b>	<b>Credits</b>
<a href="#">140.622.02</a> Statistical Methods in Public Health II or	Core	4
<a href="#">140.652</a> Methods in Biostatistics II		4
<a href="#">340.752</a> Epidemiologic Methods II	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.865</a> Public Health Perspectives in Research* <i>*may be waived if student holds MPH from a CEPH accredited program in past 10 yrs</i>	Core	2
<a href="#">340.732</a> Principles in Genetic Epidemiology II	Track	3

**Third Term**

	<b>Type</b>	<b>Credits</b>
<a href="#">140.623.02</a> Statistical Methods in Public Health III or	Core	4
<a href="#">140.653</a> Methods in Biostatistics III		4
<a href="#">340.753</a> Epidemiologic Methods III	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">340.733</a> Principles in Genetic Epidemiology III	Track	3

**Fourth Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">140.624</a>	Statistical Methods in Public Health IV or	Core	4
<a href="#">140.654</a>	Methods in Biostatistics IV		4
<a href="#">340.664</a>	Beyond Causal Inference: Epidemiologic Methods for Monitoring Population Health	Core	2
<a href="#">340.840</a>	Thesis Research Epidemiology w/ adviser	Core	variable
<a href="#">340.860</a>	Current Topics in Epidemiologic Research	Core	1
<a href="#">340.734</a>	Principles in Genetic Epidemiology IV	Track	2

\*\* Please add recommended and elective courses to total 16 credits per term.

**Department Comprehensive Examination**

passed Parts A&B- immediately following Fourth Term

**Year 2**

**First Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable
<a href="#">120.602</a>	Concepts of Molecular Biology (Pass/Fail, or Grade)	Track	4
<a href="#">140.636</a>	PERL for Bioinformatics	Track	4

**Second Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

**Third Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

**Fourth Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

### **ADDITIONAL CORE REQUIREMENT**

ONE introductory topical epidemiology course outside of chosen track. Choices below:

<b>Term</b>			<b>Credits</b>
1	<a href="#">340.616</a>	Epidemiology of Aging*	3
2	<a href="#">340.624</a>	Etiology, Prevention, and Control of Cancer*	4
2	<a href="#">340.627</a>	Epidemiology of Infectious Diseases*	4
3	<a href="#">340.607</a>	Introduction to Cardiovascular Disease Epidemiology*	4
2	<a href="#">340.682</a>	Pharmacoepidemiology and Methods	3
2	<a href="#">330.603</a>	Psychiatric Epidemiology	3
2	<a href="#">340.645</a>	Introduction to Clinical Trials	3
2	<a href="#">340.666</a>	Foundations of Social Epidemiology	3
4	<a href="#">340.680</a>	Environmental and Occupational Epidemiology	4
4	<a href="#">380.664</a>	Reproductive and Perinatal Epidemiology	4

\*The Genetic Epidemiology Track recommends these outside topical epidemiology courses *as most appropriate choices* to fulfill the Core Requirement

\*\* Please add recommended and elective courses to total 16 credits per term.



## Genetic Epidemiology Masters Student Recommended Coursework

### CORE RECOMMENDED COURSES

- 340.770 Public Health Surveillance (2<sup>nd</sup> term)
- 340.769 Professional Epidemiology Methods (3<sup>rd</sup> term)
- 340.860 Current Topics in Epidemiologic Research (Year 2 1-4<sup>th</sup> terms)
- 340.840 Special Studies – Community engagement

### TRACK RECOMMENDED COURSES

#### *RECOMMENDED:*

#### Analytic Methods courses:

- 140.641 Survival Analysis (1<sup>st</sup> term)
- 140.651 Methods in Biostatistics I (1<sup>st</sup> term)
- 140.766 Statistical Computing (1<sup>st</sup> term)
- 140.638 Analysis of Biological Sequences (2<sup>nd</sup> term)
- 140.652 Methods in Biostatistics II (2<sup>nd</sup> term)
- 140.788 Advanced Statistical Computing (2<sup>nd</sup> term)
- 140.644 Statistical Machine Learning: Methods, Theory and Applications (3<sup>rd</sup> term)
- 140.653 Methods in Biostatistics III (3<sup>rd</sup> term)
- 140.655 Analysis of Longitudinal Data (3<sup>rd</sup> term)
- 140.654 Methods in Biostatistics IV (3<sup>rd</sup> term)
- 340.774 Advanced Theory and Methods in Epidemiology (2<sup>nd</sup> term, after Year 1)
- 140.688 Statistics for Genomics (4<sup>th</sup> term)

#### Biology and Molecular Methods course:

- ME.710.734 Concept of the Gene (1<sup>st</sup> - 2<sup>nd</sup> terms)
- 260.611 Principles of Immunology I (1<sup>st</sup> term)
- 260.612 Principles of Immunology II (2<sup>nd</sup> term)
- 183.631 Fundamentals of Human Physiology (2<sup>nd</sup> term, for non-MD students only)
- 180.640 Molecular Epidemiology and Biomarkers in Public Health (3<sup>rd</sup> term)
- ME.710.700 Advanced Topics in Human Genetics (School of Medicine course, 3<sup>rd</sup> term)
- ME.710.702 Molecular Mechanisms of Disease (School of Medicine course, 3<sup>rd</sup> – 4<sup>th</sup> terms)
- 120.608 Genomics for Public Health (4<sup>th</sup> term)

#### Epidemiology Topic-Specific Electives:

- 330.619 Analytic Strategies in the Genetics of Psychiatric, Behavioral and Other Complex Diseases (4<sup>th</sup> term)
- 340.616 Epidemiology of Aging (1<sup>st</sup> term)
- 340.624 Etiology, Prevention, and Control of Cancer (2<sup>nd</sup> term)
- 340.627 Epidemiology of Infectious Diseases (2<sup>nd</sup> term)
- 340.607 Introduction to Cardiovascular Disease Epidemiology (3<sup>rd</sup> term)

## Masters Students

### Infectious Disease Epidemiology Required Coursework

#### Summer Before Year 1

	Type	Credits
340.994.81 Incoming Epidemiology Students Orientation includes: Introduction to Online Learning Sexual Harassment and Sexual Violence Prevention Training Avoiding Plagiarism	Core	0

#### Year 1

##### First Term

	Type	Credits
<a href="#">140.621.02</a> Statistical Methods in Public Health I or	Core	4
<a href="#">140.651</a> Methods in Biostatistics I		4
<a href="#">340.751</a> Epidemiologic Methods I	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.860</a> Academic and Research Ethics at JHSPH	Core	0

##### Second Term

	Type	Credits
<a href="#">140.622.02</a> Statistical Methods in Public Health II or	Core	4
<a href="#">140.652</a> Methods in Biostatistics II		4
<a href="#">340.752</a> Epidemiologic Methods II	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">550.865</a> Public Health Perspectives in Research*	Core	2
<i>*may be waived if student holds MPH from a CEPH accredited program in past 10 yrs</i>		
<a href="#">340.627</a> Epidemiology of Infectious Diseases	Track	4

##### Third Term

	Type	Credits
<a href="#">140.623.02</a> Statistical Methods in Public Health III or	Core	4
<a href="#">140.653</a> Methods in Biostatistics III		4
<a href="#">340.753</a> Epidemiologic Methods III	Core	5
<a href="#">340.860</a> Current Topics in Epidemiologic Research	Core	1
<a href="#">340.609</a> Concepts and Methods in Infectious Disease Epidemiology	Track	3

**Fourth Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">140.624</a>	Statistical Methods in Public Health IV or	Core	4
<a href="#">140.654</a>	Methods in Biostatistics IV		4
<a href="#">340.664</a>	Beyond Causal Inference: Epidemiologic Methods for Monitoring Population Health	Core	2
<a href="#">340.840</a>	Thesis Research Epidemiology w/ adviser Current	Core	variable
<a href="#">340.860</a>	Topics in Epidemiologic Research Epidemiologic	Core	1
<a href="#">340.653</a>	Inference in Outbreak Investigation	Track	3

\*\* Please add recommended and elective courses to total 16 credits per term.

**Department Comprehensive Examination**

passed Parts A&B- immediately following Fourth Term

**Year 2**

**First Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

**Second Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

**Third Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

**Fourth Term**

		<b>Type</b>	<b>Credits</b>
<a href="#">340.820</a>	Thesis Research Epidemiology w/ thesis adviser	Core	variable

### **ADDITIONAL CORE REQUIREMENT**

ONE introductory topical epidemiology course outside of chosen track. Choices below:

<b>Term</b>			<b>Credits</b>
1	<a href="#">340.616</a>	Epidemiology of Aging	3
1	<a href="#">340.731</a>	Principles of Genetic Epidemiology 1	4
2	<a href="#">330.603</a>	Psychiatric Epidemiology	3
2	<a href="#">340.624</a>	Etiology, Prevention, and Control of Cancer	4
2	<a href="#">340.682</a>	Pharmacoepidemiology and Methods	3
2	<a href="#">340.645</a>	Introduction to Clinical Trials	3
2	<a href="#">340.666</a>	Foundations of Social Epidemiology	3
3	<a href="#">340.607</a>	Introduction to Cardiovascular Disease Epidemiology	4
4	<a href="#">340.680</a>	Environmental and Occupational Epidemiology	4
4	<a href="#">380.664</a>	Reproductive and Perinatal Epidemiology	4

### **ADDITIONAL TRACK REQUIREMENTS**

CHOOSE AT LEAST ONE general elective in Infectious Disease Epidemiology

<b>Term</b>			<b>Credits</b>
1	<a href="#">340.646</a>	Epidemiology and Public Health Impact of HIV/AIDS	4
2	<a href="#">223.662</a>	Vaccine Development and Application	4
2	<a href="#">260.652</a>	Principles of Public Health Ecology	4
2	<a href="#">340.641</a>	Healthcare Epidemiology	4
3	<a href="#">182.640</a>	Food and Water-Borne Diseases	3
3	<a href="#">223.663</a>	Infectious Diseases and Child Survival	3
3	<a href="#">223.687</a>	Vaccine Policy Issues	3
3	<a href="#">340.612.81</a>	Epidemiologic Basis for Tuberculosis Control	2
4	<a href="#">223.682</a>	Clinical and Epidemiologic Aspects of Tropical Diseases	4
4	<a href="#">223.689</a>	Biological Basis of Vaccine Development	3
4	<a href="#">260.656.81</a>	Malariology	4
4	<a href="#">340.651</a>	Emerging Infections	2
4	<a href="#">380.761.81</a>	Sexually Transmitted Infections in Public Health Practice	4
4	<a href="#">380.762.81</a>	HIV Infection in Women, Children, and Adolescents	4

CHOOSE ONE:

<b>Term</b>			<b>Credits</b>
1	<a href="#">340.660</a>	Practical Skills in Conducting Research in Clinical Epi & Investigation or	3
2	<a href="#">340.717</a>	Health Survey Research Methods	4

CHOOSE AT LEAST ONE course in Biology and Pathogenesis of Infectious Disease:

<b>Term</b>			<b>Credits</b>
1	<a href="#">260.623</a>	Fundamental Virology	4
1	<a href="#">260.636</a>	Evolution of Infectious Disease	3
1	<a href="#">340.654</a>	Epidemiology and Natural History of Human Viral Infections	6
2	<a href="#">260.627</a>	Pathogenesis of Bacterial Infection	4
3	<a href="#">260.650</a>	Vector Biology and Vector Borne Diseases	3

CHOOSE ONE (Year 2):

<b>Term</b>			<b>Credits</b>
1	<a href="#">260.611</a>	Principles of Immunology I <b>and</b>	4
2	<a href="#">260.612</a>	Principles of Immunology II or	4
2	<a href="#">260.631</a>	Immunology, Infection and Disease	3

\*\* Please add recommended and elective courses to total 16 credits per term.

## Infectious Disease Epidemiology Masters Student Recommended Coursework

### CORE RECOMMENDED COURSES

- 340.770 Public Health Surveillance (2<sup>nd</sup> term)
- 340.769 Professional Epidemiology Methods (3<sup>rd</sup> term)
- 340.860 Current Topics in Epidemiologic Research (Year 2 1-4<sup>th</sup> terms)
- 340.840 Special Studies – Community Engagement

## **Department Comprehensive Examination**

A two-day Department comprehensive examination is administered to all students enrolled in the MHS or ScM programs in late May of their first academic year. By the time of the examination (known as “the comps”), students should have completed 64 credits (one full year of residence); Epidemiology 340.751-753, Biostatistics 140.621-624 or 140.651-654; and the required 1<sup>st</sup> year Epidemiology coursework in their Track, and with a cumulative GPA of 2.75.

Topics covered on the comprehensive examination include knowledge and application of epidemiologic concepts and methods, history of epidemiology, and contemporary issues and leaders in public health. The first day of the exam (Part A) tests student knowledge of epidemiology concepts and methods. The second day of the exam (Part B) is track-specific, and tests knowledge of concepts presented in the required courses for each track.

Students must pass both Part A and Part B of the comprehensive exam. Masters students must attain at least a 70% on Part A and Part B to pass. Masters students must pass both sections of the exam in order to qualify for the Masters Tuition Scholarship in their second year. A repeat examination may be allowed, but is not guaranteed. Failure to pass one or both sections of the exam may result in dismissal from the program or from the Department.

## **Comprehensive Examination Grading Policy**

The Comprehensive Examination is graded by Department of Epidemiology faculty according to a rubric determined by the Comprehensive Examination Committee. Final grades are distributed to students via CoursePlus by mid-July. Students who wish to view their exam should set up an appointment with the Academic Coordinator, Ebony Moore. Masters students who score below 70% are allowed to formally request in writing 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. 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. Re-grade requests are handled by the faculty on the Comprehensive Examination Committee.

## **Teaching Assistant Recommendation**

Learning how to be an effective teacher and communicator about epidemiologic principles and methods is an integral part of education as an epidemiologist. The Department recommends that students in the MHS and ScM be a Teaching Assistant for one course in the second year of their studies, generally Principles of Epidemiology (340.601) in the Summer term, Epidemiologic Inference in Public Health I (340.721) in 1<sup>st</sup> term or on-line in 3<sup>rd</sup> term, or Epidemiologic Inference in Public Health II (340.722) in 2<sup>nd</sup> term or on-line in 4<sup>th</sup> term, or other substantive courses. Approximately 10 hours per week would be required for this activity. It is also recommended that students complete the [didactic TA training](#).

## **Masters Thesis (MHS)**

Master of Health Science (MHS) students must complete a satisfactory thesis in their Track. The thesis must be approved by two members of the Department's faculty, including the thesis adviser. The thesis may be a critical review of the literature pertaining to a specific area of interest, secondary data analysis, program or project proposal, or original research. It is expected that the student will meet with their thesis adviser throughout the duration of the research project. MHS students planning on a May graduation must adhere to all program deadlines. The School's policy and procedures manual for the MHS degree program is available [here](#). Students should follow the written guidelines for the preparation of the thesis. The thesis is a requirement for partial fulfillment of the MHS degree.

## **Masters 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 outside the Department of Epidemiology prior to beginning the thesis project (professor, scientist, lecturer, instructor of any rank). The student should submit a three- to five-page protocol to each member of this committee. The thesis committee members will meet and decide whether the proposed work is of the scope and depth appropriate for an ScM thesis, and whether it is conceptually valid and feasible. 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 policy and procedures manual for the ScM program is available online [here](#). The thesis is a requirement for partial fulfillment of the ScM degree.

## **Masters Thesis Expectations**

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

Each student must register for 3 terms of special studies with their thesis adviser in their second year. In the 4<sup>th</sup> term of the second year each student must register for the Masters Thesis course. The thesis adviser in consultation with the thesis reader will evaluate the following.

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, demonstrated by the student's descriptions and discussions of:
  - The descriptive epidemiology of the public health problem. For example, its prevalence and distribution in the population, its risk factors (e.g., modifiable, non-modifiable, comorbidities, social, environmental risk factors, etc.).
  - The biology, physiology, and natural history of the public health problem, if relevant.
  - The contemporary questions about the public health problem, including new directions in research on the public health problem (including technology, diagnosis, methodologic challenges).
  - 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, demonstrated by:
  - Preparation of a comprehensive literature review (systematic review, if appropriate see separate document).
  - Interpretation of findings from multiple research papers and understanding of the full body of research relevant to the public health problem.
  - Interpretation of the student's own findings within the context of the current body of literature.
  - Use or evaluation of proper study design, measurement of exposures and/or outcomes, biases and confounding, biostatistical methods and application.
  - Explanation and interpretation of epidemiologic findings for a non-epidemiologist audience.
  - Identify next steps and future questions that need to be addressed
  - 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:

- Logically structured and organized; and
- Includes figures that illustrate important findings, with proper formatting (e.g. legends, labeled axes, appropriate titles, etc.); and
- 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:

- Correct punctuation and spelling; and
- Easily readable by epidemiologists; and
- Appropriately and adequately referenced citations; and
- 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:

- Keeping appointments with the thesis adviser and being on time.
- Being prepared and organized at each meeting with the thesis adviser, which includes creating and sending an agenda before the meeting.
- Demonstrating appropriately paced progress on the thesis research.
- Preparing the thesis document.

The expectation is that the student will get *better* 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.

### **Masters Poster Session**

All Masters students are required to participate in the Masters Poster Symposium held at the end of their 2<sup>nd</sup> year. Participation is a requirement for partial fulfillment of the MHS and ScM degrees. Each student should prepare a 3'x4' poster of their thesis work (no other work can be presented) and have approval of the poster from their adviser before presenting. Although the work done for the poster will represent the Masters student's thesis, the adviser 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). Additional guidelines for the creation of a scientific poster will be disseminated to students at the quarterly Masters meetings. Students are expected to follow these guidelines. The poster will be printed only once, so students should carefully proofread their poster prior to submitting for printing. A poster title and abstract should be submitted to Ms. Fran Burman (FranBurman@jhu.edu) prior to the Masters Poster Symposium for inclusion in the program.

Attendees at the Masters Poster Symposium include fellow students, trainees and faculty.

Students who will not graduate in May are still required to present a poster. This poster must be approved by their adviser, and presented to the Masters Program Directors at least 3 weeks prior to the date by which the Department must certify student eligibility for award of degree to the School's Office of Records & Registration. Students graduating in August or December must contact the Masters Program Directors by July 1 (August graduation) or November 1 (December graduation) to indicate their plans to graduate and determine a poster presentation date.

## Timeline and Graduation Deadline by Degree

Timelines for graduation by degree are presented on the following pages.

**Please note:** Dates are subject to change. Students may access the most recent timelines at: <https://my.jhsph.edu/Offices/StudentAffairs/RecordsRegistration/MastersCandidateInformation/Pages/default.aspx/>

Students who plan to graduate Summer 2018 should use the link (<https://my.jhsph.edu/Offices/StudentAffairs/RecordsRegistration/MastersCandidateInformation/Pages/default.aspx/>) to identify timelines, and consult the Academic Program Manager, Fran Burman ([franburman@jhu.edu](mailto:franburman@jhu.edu)) with any questions.

Per the School's Policies and Procedures Manual, not more than four years may elapse between the date of matriculation and fulfillment of all requirements for the Masters degree.

## Planning Ahead for the MHS and ScM Programs

Junior year:  
(or 2 yrs out) Fall or Spring take an introductory epidemiology course  
Make sure to complete a higher level math course such as pre-calculus, calculus, or differential equations and at least 1 biology course.  
Other helpful courses include physiology, immunology, genetics, ecology, sociology

Senior year:  
(or 1 yr out) Visit the campus (Fall Open House or one of the Virtual Fairs)  
Solicit references, write statement of purpose,  
SUBMIT APPLICATION (including track of interest) and accompanying materials by January 15<sup>th</sup> for preliminary consideration and for the ScM program (last day is March 1 for MHS applicants)  
Finish BA/BS or MD requirements  
Come to Admitted Students Visiting Day  
Accept offer

Summer prior: Refresh epidemiology and biology (take the [Introduction to Biomedical Sciences](#))  
Follow the Welcome Orientation site for the Department of Epidemiology  
Submit final transcript from any in-progress degree programs.

### JHSPH:

1<sup>st</sup>–4<sup>th</sup> terms: Attend JHSPH Orientation  
Meet 3-4 times with Group Adviser  
Attend quarterly Masters Meetings  
Take course requirements  
Identify research mentor / adviser for summer and second year before fourth term  
Meet with research mentor during fourth term  
Take written comp exam (May after full-time enrollment 64 credits or more)

Summer between: Work / Travel / Conduct research toward your masters' thesis

5<sup>th</sup>–8<sup>th</sup> terms: Masters Tuition Scholarship can be awarded for full-time students  
Take any remaining required or recommended coursework  
Complete thesis  
Prepare and present poster of research project  
Attend Graduation (May of year two)

# FLOWCHART AND DEADLINES BY DEGREE (MASTERS)

## Flowchart for MHS Program

<b>First-year Students</b>	Complete required coursework	1 <sup>st</sup> year of degree
	Attend quarterly Masters meetings	Once per term
	Meet with academic adviser	Monthly during the 1 <sup>st</sup> year of degree
	Meet with thesis adviser	4 <sup>th</sup> term of 1 <sup>st</sup> year of degree
	Pass the Department Comprehensive Exam	<i>May 30-31, 2017</i>

Verification of completion of course requirements prior to 1<sup>st</sup> term 2018-19

<b>Second-year Students</b>	Complete any additional required coursework	2nd year of degree
	Attend quarterly Masters meetings	Once per term
	Meet with thesis adviser	As determined by student and adviser
	<a href="#">IRB</a> Review	1 <sup>st</sup> term, 2017-18 ( <a href="#">if applicable</a> )
	Student has access to data	(if applicable)
	Submit thesis draft to adviser	March 16, 2018
	Submit thesis title & readers	April 1, 2018; Submit to Fran Burman
	Submit revised thesis to adviser	<i>No later than March 30, 2018*</i>
	With adviser's approval, submit thesis to reader	<i>No later than <a href="#">April 13, 2018</a></i>
	Present at Masters Posters Session	April TBA, 2018*
	Thesis Acceptance Letters due to Fran Burman	April 25, 2018 Eligibility for award of degree must be certified by <i><a href="#">April 27, 2018*</a></i>
	Submit thesis to Jon Eichberger (je@jhu.edu)	<i><a href="#">April 28, 2017</a></i>
	School Convocation	May TBA, 2018
	Spring Conferral 2018	May TBA, 2018

\* **Absolute deadline.** Students who miss the deadline move to the following graduation date.

## Flowchart for SCM Program

<b>First-year Students</b>	Complete required coursework	1 <sup>st</sup> year of degree
	Attend quarterly Masters meetings	Once per term
	Meet with academic adviser	Monthly during the 1 <sup>st</sup> year of degree
	Meet with thesis adviser	4 <sup>th</sup> term of 1 <sup>st</sup> year of degree
	Pass the Department Comprehensive Exam	<i>May 30-31, 2018</i>
Verification of completion of course requirements prior to 1 <sup>st</sup> term 2018-19		
<b>Second-year Students</b>	Complete any additional required coursework	2nd year of degree
	Attend quarterly Masters meetings	Once per term
	Meet with thesis adviser	As determined by student and adviser
	<a href="#">IRB</a> Review ( <a href="#">PHRIST application</a> )	1 <sup>st</sup> term, 2017-18 ( <a href="#">if applicable</a> )
	Student has access to data	
	Submit thesis draft to adviser	<i>Jan 26, 2018</i>
	<a href="#">Appointment of Thesis Readers form</a>	<i>Feb 9, 2018*</i> ; Submit to Edda Budlow in E1002
	Submit revised thesis to adviser	<i>Feb 10, 2018</i>
	With adviser's approval, submit thesis to reader	<i>March 16, 2018</i>
	Present at Masters Posters Session	<i>April 24, 2018*</i>
	Thesis Acceptance Letters due to Fran Burman	<i>April 25, 2018*</i> Eligibility for award of degree must be certified by <i>April 27, 2018*</i>
	Submit thesis to <a href="#">JH Libraries</a> ** and to Jon Eichberger ( <a href="mailto:je@jhu.edu">je@jhu.edu</a> )	<i>April 27, 2018*</i> **submission <a href="#">fee</a> that is the responsibility of the student applies
	School Convocation	May TBA, 2018
	Spring Conferral 2018	May TBA, 2018
* <b>Absolute deadline.</b> Students who miss the deadline move to the following graduation date.		

**Deadlines for graduation: MHS**

These [deadlines](#) are set by the School and are non-negotiable; deadlines are subject to change.

**Deadlines for graduation: ScM**

These [deadlines](#) are set by the School and are non-negotiable; deadlines are subject to change.

# BACHELORS AND MASTERS COMBINED PROGRAM (BA/MHS)

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Undergraduate students at Johns Hopkins University that are majoring in [Public Health Studies](#) and are already interested in pursuing advanced degrees can get a head start through these combined degree programs at the Bloomberg School.

The Bachelor of Arts (BA) and the Master of Health Science (MHS) combined degree program prepares students for further graduate work or prominent careers in research and science.

The benefit of the BA/MHS is that it allows Johns Hopkins University undergraduates (only) to take JHSPH courses during their undergraduate program, apply up to 16 credits accumulated as undergraduates in the MHS program, and apply by July 1 without submitting GRE's as long as their cumulative and JHSPH undergraduate grade point average remains above 3.0.

Students who complete the BA/BS at JHU, become MHS candidates and follow the MHS program outlined in this Student Handbook.

All applicants are encouraged to complete multiple biology and other science/math courses prior to entering the program.

Dr. Terri Beaty ([tbeaty1@jhu.edu](mailto:tbeaty1@jhu.edu)) is the Director of the BA/MHS program for the Department.

## **FLOWCHART AND DEADLINES BY DEGREE (MASTERS – BA/MHS)**

### **BA/MHS Compressed Timeline - Recommended**

#### **Enrollment – Krieger School of Arts and Sciences**

Sophomore year: February attend info session follow-up with departments of interest

Junior year: Fall or Spring take Fundamentals of Epi course at HMWD  
Can start attending Current Topics

Solicit references, submit application  
(preferred deadline is June 1, School's deadline is July 1.)

Accept offer

Meet with Epi program director (Dr. Beaty) to think about research topics and courses for Senior year.

Senior year: Take Biostatistics 621-624 and recommend they attend Current Topics  
OR take electives for the track selected  
OR complete Honors curriculum at Homewood (students can do both coursework and Honors Program with permission from Honors Program director)

Meet with Dr. Beaty and any faculty to identify a research topic for the summer and to serve as an adviser

Graduation from JHU / KSAS

Summer after graduation from BA program:

Register for 2 credits 340.840 with adviser to complete a pilot study or research project leading toward possible thesis

#### **Enrollment – Johns Hopkins Bloomberg School of Public Health:**

First – fourth terms: Attend JHSPH Orientation  
Complete all course requirements and work on thesis  
Take Department comprehensive exam

Summer after first year:

Register for 2 credits 340.820 with adviser:  
Complete thesis  
Prepare and present poster of research project  
Graduation from MHS at end of August

## Regular MHS timeline

### Follow “Compressed” steps until graduation – skipping Summer registration

First – fourth terms:      Attend JHSPH Orientation  
                                    Take course requirements and identify adviser  
                                    Take Department comprehensive exam

Fifth – eighth terms:      Masters Tuition Scholarship can be awarded for full-time students  
                                    Take any remaining required or recommended coursework  
                                    Complete thesis  
                                    Prepare and present poster of research project  
                                    MHS Graduation is May of year two



## Timeline: BA/MHS Students

<b>BA Senior Year</b>	Complete 16 credits of coursework	Senior year of BA at JHU Homewood Recommended coursework: 140.621-140.624
	Work with Epidemiology adviser to identify research project	After graduation from JHU

<b>Students enrolled in MHS Program</b>	Complete required coursework	1 <sup>st</sup> year of degree
	Attend quarterly Masters meetings	Once per term
	Meet with thesis adviser	As determined by student and adviser
	Pass the Department Comprehensive Exam	May 30-31, 2018 <del>May 20-21, 2017</del>
	IRB Review	1 <sup>st</sup> term, 2017-18 (if applicable)
	Submit thesis draft to adviser	March 16, 2018
	Appointment of Thesis Readers form	April 1, 2018; Submit to Fran Burman
	Submit revised thesis to adviser	<i>No later than <u>March 30, 2018</u>*</i>
	With adviser's approval, submit thesis to reader	<i>No later than <u>April 13, 2018</u></i>
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	Submit thesis to Jon Eichberger (je@jhu.edu)	<i><u>April 27, 2018</u></i>

\* **Absolute deadline.** Students who miss the deadline move to the following graduation date.

## **Deadlines for graduation: BA/MHS**

These [deadlines](#) are set by the School and are non-negotiable; deadlines are subject to change.

# NON-DEGREE TRAINING

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## POST-DOCTORAL FELLOWS

The Department welcomes individuals who have completed doctoral degrees to postdoctoral fellow (PDF) affiliations. PDFs identify a mentor and enjoy advising from faculty and use of the School's facilities.

Prospective PDFs should submit a [PDF application](#). The Application requires proof of sponsorship by either the School or an outside agency for the entire period of the program. Post-doctoral fellows may not use personal funds to support themselves during their program. PDFs will not be able to register, be paid, and/or buy health insurance until verification of their official receipt of the doctoral degree is filed and their PDF application is formally approved.

After being admitted to the Program, each fellow should design, in collaboration with their faculty mentor, an Individualized Development Plan for their research time with the Department. PDFs should discuss the anticipated duration of their fellowship with their mentor when they begin the fellowship. PDFs wishing to extend their position beyond the agreed upon time in the acceptance letter will need to send a letter of request and a report of accomplishments or work completed over the past year to their adviser. After meeting with their adviser, PDFs should send these materials to the Academic Coordinator for the Department, Ebony Moore ([eamoore@jhu.edu](mailto:eamoore@jhu.edu)), and copy their adviser. PDFs are evaluated annually and must maintain an appropriate level of professionalism and scientific research for the duration of their program.

PDFs must adhere to the [student code of conduct](#) for all students of the Johns Hopkins Bloomberg School of Public Health.

PDFs are considered non-degree seeking students, and should register for 16 credits during each course term. The Postdoctoral Research Credits course number is 340.830. Tuition for PDFs is set at \$200 per term by the School and a postdoctoral scholarship covering tuition is generally granted. PDFs have the option of taking up to 16 credits of courses during their fellowship period. PDFs who wish to take academic classes should discuss this with their research mentor (adviser) as part of their Individualized Development Plan; these courses cannot be transferred into a degree program at a later date. Please visit the [School's PDF website](#) and [PDF guidebook](#) for additional critical information.

Internal doctoral degree candidates (PhD and ScD) or masters students who hold a doctoral degree and who will be completing their dissertations or theses may choose to "stay on and finish" their work with their adviser. The proper mechanism for doing so is the PDF program. Students who wish to continue their collaborations or research or submit their manuscripts for publication should submit a formal application to the School through the Admissions Office; submit a letter of support from their mentor; and a brief statement of their intended research.

Epidemiology Department PDFs are encouraged to participate in the Epidemiology Postdoctoral Association (EpiPDA) and in the Johns Hopkins Postdoctoral Association ([JHPDA](#)). The EpiPDA is supported by the department and holds monthly research and professional development seminars. To join the EpiPDA listserv, please email Jonathan Eichberger at [je@jhu.edu](mailto:je@jhu.edu). Upon satisfactory completion of their program, PDFs are issued a Certificate of Completion. PDFs must submit a request form and provide an updated curriculum vitae, a forwarding address, and the start and end dates approved by their mentor to the Academic Support Core ([JHSPH.epiasc@jhu.edu](mailto:JHSPH.epiasc@jhu.edu)).

Further questions may be directed to the Academic Coordinator, Ebony Moore, at [eamoore@jhu.edu](mailto:eamoore@jhu.edu).

## Helpful Links

- [JHSPH Postdoctoral Training](#)
- [Guidelines for PDF Stipend Levels](#)
- [Postdoctoral Fellows Policy and Procedure Manual \(PPM\)](#)
- [Postdoctoral Fellows Guidebook](#)
- [Johns Hopkins Postdoctoral Association \(JHPDA\) - School of Public Health Committee](#)

## CERTIFICATE PROGRAMS

Certificate Programs offer focused academic training in specific areas of public health. They provide a focused way of integrating ones electives courses into a research area of interest. The School offers over 30 certificates outlined here: <http://www.jhsph.edu/academics/certificate-programs/>.

The Certificates offered by the Department of Epidemiology are:

- Clinical Trials
- Epidemiology for Public Health Professionals
- Healthcare Epidemiology and Infection Prevention and Control
- Pharmacoepidemiology and Drug Safety Certificate

Generally, students interested in a particular certificate will need to forward a brief statement and a CV to the contact person listed. The statement should indicate research / professional interest and background preparation for the certificate and explain how the additional certificate will be beneficial to the student's career. Many of the Certificates also require a planning chart of the courses including term / year to meet the Certificate's requirements.

Applying for a certificate as an enrolled degree candidate in Epidemiology at JHSPH:  
<http://www.jhsph.edu/academics/certificate-programs/how-to-apply/jhsph-degree-students.html>

Once the Certificate requirements have been satisfied, please complete the Notification of Completion Form in its entirety: [http://www.jhsph.edu/academics/certificate-programs/docs/Notification%20of%20Certificate%20Program%20Completion\\_5\\_16\\_16.pdf](http://www.jhsph.edu/academics/certificate-programs/docs/Notification%20of%20Certificate%20Program%20Completion_5_16_16.pdf)

Many of the Certificates require formal acceptance prior to beginning the coursework. Students cannot just submit a completion notification without prior admittance to the program.

Please see the individual certificate page or the [Certificate FAQs](#) for more information.

# TRACK-SPECIFIC ACTIVITIES

## (Journal Clubs, Research-in-Progress Meetings, Seminars)

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Each Track holds journal clubs, Research-in-Progress meetings, and other activities that Track students are expected to attend. 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 student's Track. These opportunities are open to all students in the Department. Students are strongly encouraged to attend activities of interest outside of their Track.

### JOURNAL CLUBS

- **Cancer Epidemiology, Prevention, & Control Journal Club**

Faculty Coordinator: Dr. Kala Visvanathan

Staff contact: Debbie Morgan- Meadows [demorgan@jhsph.edu](mailto:demorgan@jhsph.edu)

Fourth Mondays at 12:15 PM

- **Welch Center Journal Club**

Faculty Coordinator: Dr. Elizabeth Selvin

Staff Coordinator: Kristen Etzel [ketzel1@jhmi.edu](mailto:ketzel1@jhmi.edu)

Every Tuesday from 12:00PM to 1:20PM

*(Epidemiology students can register for credit; the course is Welch Center Research Seminar 340.871)*

- **Center for Clinical Trials Journal Club**

Faculty Coordinators: Drs. Roberta Scherer & Ian Saldanha

Third Thursdays at 12:15 PM

- **Epidemiology of Aging Journal Club**

Faculty Coordinator: Dr. Jennifer Deal

Fourth Mondays at 12:15

- **Journal Club of Environmental Epidemiology (with Environmental Health Sciences)**

Faculty Coordinators: Drs. Eliseo Guallar & Chris Heaney

Second and Fourth Mondays at 12:15 PM

- **General Epidemiology and Methodology Journal Club**

Faculty Coordinator: Dr. Bryan Lau

Second Thursdays at 12:15 PM

- **Genetic Epidemiology Journal Club**

Faculty Coordinator: Dr. Christine Ladd-Acosta

First and Third Tuesdays at 12:15 PM

- **Infectious Diseases Journal Club**

Faculty Coordinators: Dr. Colleen Hanrahan & Dr. Sheree Schwartz

Fourth Mondays at 12:15 PM

- **Social Epidemiology Journal Club**

Faculty Coordinator: Dr. Lori Dean

Third Thursdays at 12:15 PM

- **Center for Autism and Developmental Disabilities Epidemiology Journal Club**

Faculty Coordinator: Dr. Dani Fallin

Third Tuesdays at 12:15 PM

## RESEARCH-IN-PROGRESS MEETINGS

- **Cancer Epidemiology, Prevention, & Control Research-in-Progress**

Faculty Coordinator: Dr. Kala Visvanathan

Staff contact: Debbie Morgan-Meadows [demorgan@jhsph.edu](mailto:demorgan@jhsph.edu)

Second Tuesdays at 12:15 PM

- **Cardiovascular and Clinical Epidemiology Research-in-Progress**

Faculty Coordinator: Dr. Kunihiro Matsushita

Staff contact: Deb Capecci [dcapecc3@jhu.edu](mailto:dcapecc3@jhu.edu)

Second and Fourth Mondays at 12:15 PM

- **Center for Clinical Trials Research-in-Progress**

Faculty Coordinators: Mr. Mark Van Natta

Staff Contact: Ms. Betty Collison [bcolliso@jhsph.edu](mailto:bcolliso@jhsph.edu)

Day / time: *as requested by student presenters*

- **Epidemiology and Biostatistics of Aging Research-in-Progress**

Faculty Coordinator: Dr. Karen Bandeen-Roche

Second and Fourth Mondays at 3:30 PM - 4:30 PM

Website: <http://coah.jhu.edu/events/eba-rip.html>

- **General Epidemiology Research-in-Progress**

Faculty Coordinator: Dr. Bryan Lau

First Tuesdays at 12:15 PM

- **Genetic Epidemiology MD-GEM Seminars & Research- in-Progress**

Faculty Coordinator: Robert Wojciechowski

Second Tuesdays at 12 PM

- **Infectious Diseases Research-in-Progress**

Faculty Coordinator: Dr. David Dowdy

Second Mondays at 12:15 PM

## OTHER SEMINARS

- **LunchLearnLink: Cancer Prevention & Control Seminar**

<http://cpc.onc.jhmi.edu>

Second and fourth Thursdays at 12 PM

- **Methods and Ideas in Cardiovascular Epidemiology Interest Group**

Faculty Coordinator: Dr. Josef Coresh & Dr. Elizabeth Selvin

Staff contact: Deb Capecci [dcapecc3@jhu.edu](mailto:dcapecc3@jhu.edu)

First and third Fridays at 10:00 AM

- **Center for Aging and Health Scientific Seminar Series**

Faculty Coordinator: Dr. David Roth

Staff Coordinator: Suzette Wright [swright@jhu.edu](mailto:swright@jhu.edu)

First Mondays at 3:30 - 5PM

- **Center for Clinical Trials Seminar Series**

Faculty Coordinator: Dr. Kay Dickersin

First Thursdays at 8:30 AM - 9:30 AM

- **Center for Drug Safety and Effectiveness**

Faculty Coordinator: Drs. Caleb Alexander & Jodi Segal

Fourth Mondays at 12 - 1 PM

Link: <http://www.jhsph.edu/research/centers-and-institutes/center-for-drug-safety-and-effectiveness/academic-training/seminar-series/>



# ACADEMIC POLICIES AND PROCEDURES

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## ACADEMIC ETHICS POLICY

Students and faculty at the Bloomberg School of Public Health are responsible for maintaining the academic integrity of the School and for adhering to policies outlined in the [Student Academic Ethics Code \(https://my.jhsph.edu/Resources/PoliciesProcedures/ppm/PolicyProcedureMemoranda/Students\\_01\\_Academic\\_Ethics\\_102606.pdf\)](https://my.jhsph.edu/Resources/PoliciesProcedures/ppm/PolicyProcedureMemoranda/Students_01_Academic_Ethics_102606.pdf). Violations of academic integrity include, but are not limited to: cheating, plagiarism, knowingly furnishing false information to any agent of the University for inclusion in the academic record, violation of the rights and welfare of human or animal subjects in research, and misconduct as a member of either School or University committees or recognized groups or organizations. Additional information regarding the policies and procedures related to the Academic Ethics Code may be found at the [Office for Academic Integrity \(http://www.jhsph.edu/offices-and-services/office-of-academic-affairs/academic-integrity/\)](http://www.jhsph.edu/offices-and-services/office-of-academic-affairs/academic-integrity/).

## CHANGE OF ADVISER

For a variety of reasons, a student or a faculty member may wish for a student to change advisers. Student-initiated changes of adviser are made without penalty. Requests should be written in a letter addressed to the chair of the Admissions and Credentials Committee and counter-signed by the adviser. Requests to change Tracks also require the signature of the Track-head.

Faculty wishing to initiate a change should discuss this change with the Admissions and Credentials Committee. Faculty will need to submit a report of the student's progress at the time of this request.

## CITATIONS AND REFERENCES

The [Student Referencing Handbook \(http://www.jhsph.edu/departments/epidemiology/pdf/Student%20Referencing%20Handbook.pdf\)](http://www.jhsph.edu/departments/epidemiology/pdf/Student%20Referencing%20Handbook.pdf) provides an overview of the School's standards and expectations regarding referencing and citation.

## COURSE WAIVERS

- Can be requested with proof of similar coursework or training
- Requires adviser and primary instructor (if Epidemiology course) consent as well as approval from the Admissions and Credentials Committee
- 340.751-753 and the Biostatistics series may not be waived

## DEPARTMENTAL REVIEW OF ACADEMIC PROGRESS

Students are expected to earn A's and B's in Epidemiology coursework, maintain a cumulative GPA (2.75 for masters; 3.0 for doctoral) and pass the Department comprehensive exams at the designated level.

Any grade of D or F in a required course may constitute grounds for removal from degree candidacy. Other grounds for removal from degree candidacy are:

- Two grades of C in required courses;
- Two grades of D or F or any combination thereof in elective courses;
- Failure to maintain a minimum cumulative GPA of 2.75 for masters and 3.0 for doctoral;
- Failure on one or both parts of the Department comprehensive exam;
- Failure to maintain progress on dissertation research/thesis projects; or
- Academic or behavioral ethics violations

In such cases, after reviewing the student's performance, the Departmental Admissions and Credentials Committee will make a decision regarding the student's continuation in the program and notify the Department Chair for a final decision. Occasionally, students may be placed on academic probation within the department prior to dismissal. This time period will permit students to attempt to bring their GPA above 2.75 for masters and 3.0 for doctoral. Conversely, any student whose GPA removes them from academic probation will be notified and reported to the Admissions and Credentials Committee.

Students may choose to withdraw from the program or School at any time but should consult with their adviser and Academic Program Manager prior to making this decision. Failure to maintain registration is considered withdrawal from the School.

Each summer, the Academic Program Manager reviews the academic transcripts of the first-year students to verify completion of required courses. Students and their advisers are notified of the courses they still need to complete. Students should review this material with their adviser and register for any remaining required coursework.

## SCHOOLWIDE REVIEW OF ACADEMIC PROGRESS

The evaluation of satisfactory academic progress and the individual course letter grades are handled at the School level, and tied to federal regulations. Therefore, any student who earns a grade of C or lower or a cumulative grade point average below the minimum for the degree program is *automatically reviewed* by the Departmental Admissions and Credentials Committee, the track and program directors, and the [Schoolwide Committee on Academic Standards](#) (CAS).

Students whose grades fall below the minimum standard should submit an explanation and waiver request, *but should be prepared to retake the course if necessary*. For students receiving financial aid, the Office of Financial Aid will also review any C grades or grade point cumulative averages below the minimum for the degree, *which may result in loss of financial aid for the upcoming term*. To that end, the Academic Program Manager, along with the Departmental Admissions and Credentials Committee, review mid-term grades for the 340.751, 340.752, and 340.753 courses and contact students whose work may place them in jeopardy for the above review.

The Department fully expects that students will be able to handle the course load; however, if students experience being overwhelmed, they are encouraged to contact their adviser, the academic program manager (Fran Burman, 410-955-3926), the [Office of Student Life](#) (410-502- 2487), and/or [JHSAP \(443-287-7000\)](#), should the need arise.

## LEAVE OF ABSENCE

Requires completion of request form from the Registrar's office and a \$50 fee per term for the duration of the absence that must be paid in full to the Business Office prior to departure

Students on Leave of Absence (LOA) are not required or permitted to continue coursework or dissertation research while on LOA

Returning students must:

- Meet with their adviser and devise a timeline for completion of program requirements and;
- Prior to registration, submit a letter to the Admissions and Credentials Committee, with attached timeline and endorsement of adviser petitioning reinstatement for approval

## REGISTRATION

Full-time students must maintain a minimum registration of 16 credits per term through completion of all degree requirements. Students wishing to drop below 16 credits must consult with their adviser and the Academic Program Manager.

## REGISTRATION FOR THE PASS/FAIL OPTION

Students may take courses pass/fail as long as the course is not a core course in the Department and is not required by their Track. Students should obtain consent from their academic adviser to take a course pass/fail. Students who must submit grades to employers, to funding agencies, or to other academic programs should also consult the appropriate offices before electing the pass/fail option. Instructors evaluate student performance without regard to grading status and to give students appropriate feedback regarding their performance throughout the term. A grade of P will be recorded on the official grade roster for those students who have elected the pass/fail option and whose performance would otherwise be rated as A, B, or C.

## TIME STATUS CHANGE (FULL-TIME TO PART-TIME)

This requires a letter with explanation of need to the Admissions and Credentials Committee and approval one term prior to planned change. International students also require approval from the Office of International Services.

## TRANSFERS

### Horizontal

- Masters to Masters (except MPH)
- Doctoral to Doctoral (PhD/ScD)
- Requires adviser approval and a written request to Admissions and Credentials Committee
- To transfer to the MPH program, the student must complete an application through the Admissions Office

### Vertical

The Department does not accept vertical transfer requests.

### Inter-Departmental

- Requires application review and letter of recommendation and release from current department
- Registrar's office is notified in writing upon approval from the Admissions and Credentials Committee

## TRAVEL ABROAD

Students traveling outside of the United States for any reason other than vacation must register their itinerary online through the [JHU International Travel Registry](https://travelregistry.johnshopkins.edu/Travel) (<https://travelregistry.johnshopkins.edu/Travel>). Students must also complete the [Graduate Student Study Release Form](https://my.jhsph.edu/sites/itr/Documents/Graduate_Student_Study_Release_Form_9_Apr_201_3.pdf) ([https://my.jhsph.edu/sites/itr/Documents/Graduate\\_Student\\_Study\\_Release\\_Form\\_9\\_Apr\\_201\\_3.pdf](https://my.jhsph.edu/sites/itr/Documents/Graduate_Student_Study_Release_Form_9_Apr_201_3.pdf)) and submit it to the Academic Program Manager (Fran Burman, W6503) before leaving the country. If students will be traveling repeatedly to the same location, s/he must complete the form each time. Alternatively, s/he can list each set of travel dates on the form.

Students should always check the State Department Travel Warnings and CDC Travel Advisories before traveling and check-in with the U.S. Embassy upon arrival in the country they visit.

The University provides emergency travel insurance through International SOS. Travelers should be aware of this service prior to leaving the United States.

## CLERY ACT

[The Clery Act](#) requires colleges and universities to report crimes on campuses, and newly requires colleges and universities to report crime activity associated with trips involving students and noncampus properties. The reporting requirements of trips and noncampus properties involve: "*any building or property owned or controlled by an institution that is used in direct support of, or in relation to, the institution's educational purposes, is frequently used by students, and is not within the same reasonably contiguous geographic area of the institution.*" The department will need to report trips and noncampus locations as indicated in the previously cited definition.

If Department students or faculty advisers are traveling for university-related purposes, please check in with the Director of Graduate Education (Laura Camarata, [lcamarata@jhu.edu](mailto:lcamarata@jhu.edu)) to ascertain whether the trip falls under the cited definition for reporting.

# FINANCIAL INFORMATION

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## MASTER'S STUDENT FINANCIAL SUPPORT

### *Master's Tuition Scholarship*

The School (not the Department) provides Masters Tuitions Scholarships in the 2nd year in the amount of 75% tuition for students who have completed the first year curriculum (and 64 credits) and who have passed the Department comprehensive exams. The Masters Tuitions Scholarship covers four terms only and is only awarded when students have registered for a minimum of 16 credits per term.

### *Department Endowments (continuing students)*

The following awards are sponsored by the Department of Epidemiology for Master's degree candidates in the Department. Requests for nomination are issued every December, and applications are received and reviewed by the Department's Honors and Awards Committee; award recipients are notified in the spring.

#### *Miriam Brailey Fund*

The fund is named after Dr. Brailey, the first woman to be named to the Department's faculty. It was established by Dr. Jonathan Samet in 2000. The fund is designated as incoming support for graduate training and research in the Department of Epidemiology and will support members of underserved populations.

#### *The Trudy Bush Fund*

Family and friends of Dr. Trudy Bush, a former faculty member in the Department of Epidemiology, have created this fund in her memory to support a student pursuing a MHS or ScM degree in the Department of Epidemiology with a specialization in women's health.

#### *Charlotte Ferencz Scholarship*

Dr. Ferencz devoted her professional life to unraveling the enormously complex issues posed by congenital heart disease. This scholarship supports students' research projects in the field of maternal and child health epidemiology. The intention of the Scholarship is to have the research, which may be part of the faculty's work, lead to a student's doctoral or master's thesis.

#### *Anna Huffstutler Stiles Scholarship*

Created by Dr. H. M. "Mac" Stiles in memory of his mother, Anna Huffstutler Stiles, this scholarship will support graduate students in the Department of Epidemiology. Preference will be given to an outstanding second-year master's student.

#### *The Abe Lilienfeld Scholarship Fund*

This endowment was established by Johns Alexander, MD, MPH, in memory of this distinguished former faculty member. Preference will be given to outstanding students in the area of applied epidemiology.

#### *The Dorothy and Arthur Samet Student Support Fund in Epidemiology*

This endowment was established by Dr. Jonathan Samet in 1996 to create a general fund to support student research or other activities. No application procedure is required; faculty members will nominate a qualified student. The award is presented to Master's or doctoral students whose dissertation research and/or extracurricular activities, exemplifies a significant contribution in the field of epidemiology.

***Louis I. Dublin and Thomas D. Dublin Fund for the Advancement of Epidemiology and Biostatistics***

The award in Biostatistics and Epidemiology will support graduate student research. The award is open to current and new students in both departments. Selections will alternate annually between Epidemiology and Biostatistics. The winner of this award will be selected by the Department of Biostatistics. Per the website, application material is due in February.

***The Nancy Fink Scholarship and Service Award***

The award was established to honor the memory of [Nancy Fink, MA, MPH](http://www.jhsph.edu/research/centers-and-institutes/welch-center-for-prevention-epidemiology-and-clinical-research/news/News_2010/NancyFink.html) ([http://www.jhsph.edu/research/centers-and-institutes/welch-center-for-prevention-epidemiology-and-clinical-research/news/News\\_2010/NancyFink.html](http://www.jhsph.edu/research/centers-and-institutes/welch-center-for-prevention-epidemiology-and-clinical-research/news/News_2010/NancyFink.html)), a beloved faculty member of the Welch Center and a Senior Scientist in the Department of Epidemiology and jointly in the Department of Medicine, who passed away in 2010. The fund supports an accomplished master's student in the Department of Epidemiology.

## ***Other Departmental Support Funds (Masters Students)***

The following awards are sponsored by the Department of Epidemiology for degree candidates in the Department. These awards are offered to the Department's student body. Applications will be reviewed by the Department's Honors & Awards Committee. Please contact the Student Funding Coordinator to receive more information about these funds.

### ***Student Travel Support Fund in Epidemiology***

This fund supports student travel to present at conferences, symposiums, and the Society of Epidemiologic Research annual meeting. Additional notes: poster or presentation must be directly related to the dissertation and be accepted by the symposium or conference. It is a one-time award per student. Review will be ongoing throughout the year. Applicants will submit a letter requesting funds, a copy of their abstract, a letter of acceptance from the conference, and a travel budget of up to \$500 to the Student Financial Coordinator for distribution to the Honors and Awards members (only registration costs will be granted to Masters student or Postdoctoral applicants).

Students must be degree candidates in the Department of Epidemiology (MHS, ScM, PhD, ScD, DrPH or Postdoctoral) at the time of the conference to receive funds.

### ***The Marilyn Menkes Book Award***

The Marilyn Menkes Book Award was established in 1988 by friends and colleagues of Dr. Marilyn Spivak Menkes to commemorate her personal integrity and academic excellence. Each year, the students select nominees and vote on the awardee. The award is a \$100 prize toward the purchase of a book selected by the winner and presented to the recipient at the Department of Epidemiology's annual awards reception. Balloting is generally held during third term each year.



## DOCTORAL STUDENT FINANCIAL SUPPORT

The Department of Epidemiology is committed to helping students pay for their graduate education. Sources of student support are outlined in this Handbook. New, incoming doctoral students are considered for all possible training grant positions and tuition support both in the Department and at the School.

Students are offered a five-year scholarship package beginning with the initial year of their doctoral program. Support beyond the first year is contingent on the successful completion of 64 credits with a 3.0 GPA, and must earn a grade of “B” or higher in all required courses in the core departmental curriculum that are offered for letter grading and a “Pass” grade for those only offered on a pass/fail basis. In addition, students must successfully pass the Department comprehensive examination.

The minimum level of departmental support is 100% for the first two years of training, 85% support in years 3 and 4, and 50% support for a fifth year if needed. Each spring, students are asked to complete a student funding plan and thesis timeline regarding their anticipated needs for the upcoming year. It is assumed that students who do not submit the form(s) on time do not require tuition funds from the Department. Students receiving any of the support mentioned above (including those in training grant positions) must request tuition support for each year of the program. The Student Financial Coordinator, (Matthew Miller), handles all tuition requests for the Department and the Admissions and Credentials Committee. He is located in W6510 and can be reached at [mmille16@jhu.edu](mailto:mmille16@jhu.edu), 410-955-2714.

Selection of all funding packages is made by the Admissions and Credentials Committee prior to the start of the academic year and is not subject to revision based on exceptional performance. However, continued funding support is contingent on satisfactory progress in one’s doctoral program. All students must remain full time (a minimum of 16 credits per term) throughout the program in order to qualify for Department tuition support.

### **Special Note:**

Students under special circumstances (birth or adoption of child, poor health, extended family emergencies, etc.) may request a Leave of Absence Period from their program. It is expected that the student will pay the required leave of absence fee (\$50 per term).

Those who take a leave of absence MAY be eligible to request funding terms beyond the normal period of support provided satisfactory progress has been achieved. All extended support must be granted by the Admissions and Credentials Committee who will determine if adequate progress has been achieved to warrant support.

For example: a student who went on Leave of Absence for two terms (for the birth of her child) during her third year of support MAY be eligible to request those lost two terms of Department support during her sixth year, provided she is close to defense of her thesis.

## **NIH NRSA T32 TRAINING GRANTS (Pre- and Post-doctoral fellowships)**

The Department offers a limited number of NIH-supported, pre- and postdoctoral fellowship opportunities for U.S. citizens or U.S. permanent residents. Decisions regarding the distribution of funds for tuition and stipend support are made by Committees representing the various training grants and headed by the principal investigators. For the 2016-2017 academic year these are:

### ***Epidemiology and Biostatistics of Aging Training Program***

Dr. Karen Bandeen-Roche

### ***Cancer Epidemiology Training Program***

Dr. Elizabeth Platz

### ***Cardiovascular Epidemiology Institutional Training Program***

Drs. Josef Coresh & Elizabeth Selvin

### ***Eye and Vision Genomics Training Program***

Drs. Terri Beaty & Robert Wojciechowski

### ***Johns Hopkins HIV Epidemiology Prevention Sciences Training Program***

Drs. Chris Beyrer & Shruti Mehta

### ***Renal Disease Epidemiology Training Grant (postdoctoral only)***

Dr. Lawrence Appel

## **Other Training Awards (Non-NIH)**

### ***MD-GEM: The Maryland Genetics, Epidemiology, and Medicine Training Program (predoctoral only)***

Drs. Priya Duggal & David Valle

*Sponsored by the Burroughs Wellcome Fund*

Additional training grants are available through the ***Welch Center for Prevention Epidemiology and Clinical Research***; most prominent (for the Department of Epidemiology) are:

- [Graduate Training Programs in Clinical Investigation](http://www.jhsph.edu/academics/graduate-training-programs-in-clinical-investigation/) (<http://www.jhsph.edu/academics/graduate-training-programs-in-clinical-investigation/>)
- <http://www.jhsph.edu/research/centers-and-institutes/welch-center-for-prevention-epidemiology-and-clinical-research/training/training-programs/clinical-research-and-epidemiology-in-diabetes-and-endocrinology/index.html>

Upon notification of selection to receive support, a student should direct fiscal questions to the Student Financial Coordinator in Room W6510, 410-955-2714. Additionally, departmental students may be supported on grants housed in other departments such as Environmental Health Sciences, Mental Health, and the School of Medicine. However, it is necessary that this information be relayed to the Student Financial Coordinator for administrative purposes.

A complete list of training programs available at the Bloomberg School of Public Health can be found [online](http://www.jhsph.edu/academics/programs/trainings) (<http://www.jhsph.edu/academics/programs/trainings>).

## Department Named Teaching Assistantships

Each year a call for applications will be issued by the Department for four named, prestigious teaching assistantships. Four doctoral students will be selected each year by a special committee of faculty instructors as the recipients. Each recipient will serve as an ongoing TA across the sequential terms of either the Professional Epidemiology Series, or the Epidemiologic Methods series, in a single academic year.

Requirements include:

- Must have completed the full 1<sup>st</sup> year Epidemiology curriculum and passed the Department Comprehensive Exam at the time of the award
- Must be an active PhD or ScD student in Epidemiology at the time of award
- Must maintain full-time status over the duration of the assistantship
- Must serve as TA in all courses in the series sequences named below
- Must serve as lead TA in one of the 4 courses; unless a waiver is granted by each of the course instructors
- Must test the coming year's Department Comprehensive Exam
- US Citizens, Permanent Residents, and International students are all eligible

Benefits include:

- \$18,000 semi-monthly student salary paid over 24 pay periods. This work constitutes the equivalent of 15 hours per week; fellows may hold other research positions not to exceed 5 hours per week during the affected 4 terms (Summer term excluded).
- Additional tuition support from the Department up to a maximum of 25% on top of current projected Department scholarship
- Individual-level Health Insurance Support and UHS Clinic Fee Support (per JHSPH rates)
- Fulfills the 3 required courses for the in-classroom training component of the TA Curriculum

The four named teaching assistantships are:

### *The Alexander Langmuir Teaching Assistantship in Professional Epidemiology*

Serves in 4-course sequence of Epidemiology Professional Series

*Alexander Langmuir (1910-1993), "the father of shoe leather epidemiology", created the Epidemic Intelligence Service (EIS) at the Centers for Disease Control and contributed greatly to polio eradication efforts in the United States. Dr. Langmuir earned his M.P.H. from the Johns Hopkins School of Hygiene and Public Health and taught at the School from 1988 until his death. Recipients of the Langmuir Teaching Assistantship carry on his strong commitment to professional epidemiology by serving as a teaching assistant for the four courses in our Professional Epidemiology Methods course sequence.*

<http://www.jhsph.edu/about/history/heroes-of-public-health/alexander-langmuir.html>

### **The Leon Gordis Teaching Assistantship in Professional Epidemiology & Endowed Centennial Scholar** Serves in 4-course sequence of Epidemiology Professional Series

Leon Gordis (1934-2015), pediatrician and epidemiologist, was a prolific author and contributor to many fields of epidemiology and health care. One of the most revered professors of public health, Dr. Gordis is perhaps best known for his teaching of the course "Principles of Epidemiology" at the Johns Hopkins School of Hygiene and Public Health and his widely heralded textbook "Epidemiology", first published in 1996 and now in its fifth edition. Dr. Gordis joined the faculty of the Department of Pediatrics in the Johns Hopkins School of Medicine in 1966, earned a M.P.H. and a Dr.P.H. from the Johns Hopkins School of Hygiene and Public Health in 1966 and 1968, respectively, and served as the Department of Epidemiology's fifth chair from 1975-1993. In 2009, he was honored with a teaching fellowship program that supports graduate students in epidemiology engaged in teaching undergraduate students in the public health major at the Johns Hopkins Krieger School of Arts & Sciences. Recipients of the Gordis Teaching Assistantship carry on his strong commitment to teaching and to epidemiology by serving as a teaching assistant for the four courses in our Professional Epidemiology Methods course sequence.

<http://aje.oxfordjournals.org/content/182/10/823.full?sid=3d863999-3620-4ebd-b756-7ec734181cdc>

**SPECIAL NOTE** – The Leon Gordis Teaching Assistantship has the additional special distinction of being an **endowed centennial scholar** linked to the **Leon Gordis Centennial Scholarship** (which co-funds this intention). Although there are no additional financial incentives, the recipient of this specific TA assistantship will be recognized and honored at the end of the year at the **School Awards Ceremony** as the annual recipient of the endowment honors (in addition to the Department end of the year ceremony where all TA Assistantships honorees are recognized).

### **The Moyses Szklo Teaching Assistantship in Epidemiologic Methods**

Serves in 3-course sequence of Epidemiologic Methods and Principles of Epidemiology (Summer term)

Moyses Szklo is an American epidemiologist and physician scientist. He is currently a Professor of Epidemiology and Medicine at the Johns Hopkins University, Editor-in-chief of the American Journal of Epidemiology, and director of the Johns Hopkins Summer Institute of Epidemiology and Biostatistics. Dr. Szklo has published over 300 articles in peer-reviewed journals as well as a major textbook of epidemiology, "Epidemiology: Beyond the Basics". Dr. Szklo earned his M.P.H. from the Johns Hopkins University School of Hygiene and Public Health in 1972 and his Dr.P.H. in 1974. Recipients of the Szklo Teaching Assistantship carry on his strong commitment to teaching and to epidemiology by serving as a teaching assistant for the four courses in our Epidemiologic Methods course sequence.

[https://en.wikipedia.org/wiki/Moyses\\_Szklo](https://en.wikipedia.org/wiki/Moyses_Szklo)

### **The Abraham Lilienfeld Teaching Assistantship in Epidemiologic Methods**

Serves in 3-course sequence of Epidemiologic Methods and Principles of Epidemiology (Summer term)

Known as the "father of contemporary chronic disease epidemiology", Abraham Lilienfeld (1920-1984) was an expert in cancer research and contributed greatly to the landmark 1964 Smoking and Health report issued by the 9th US Surgeon General. Dr. Lilienfeld earned his M.P.H. in 1949 from the Johns Hopkins University School of Hygiene and Public Health, served on the faculty from 1950-1954 and again from 1958 until his death, serving as Chair of the Department from 1970-1975. Recipients of the Lilienfeld Teaching Assistantship carry on his strong commitment to teaching by serving as a teaching assistant for the four courses in our Epidemiologic Methods course sequence.

<http://www.ihsp.edu/about/history/heroes-of-public-health/abraham-lilienfeld.html>

For more information about the Named Teaching Assistantships, please contact the Director of Graduate Education, Laura Camarata ([lcamarata@jhu.edu](mailto:lcamarata@jhu.edu)).

## **University Named Teaching Fellowship**

### **Gordis Teaching Fellowship in Undergraduate Education**

Department doctoral students are eligible to apply for the Gordis Teaching Fellowship in Undergraduate Education.

*“Each year the Offices of the Dean of Arts and Sciences and Bloomberg School of Public Health sponsor the Gordis Teaching Fellowship Program. The fellowship is designed to foster innovation in the undergraduate public health curriculum, to give advanced graduate students in the Bloomberg School of Public Health experience teaching their own undergraduate courses, and offer undergraduates the opportunity to take seminar-size classes with 19 or fewer students. Graduate students regard this as a rare opportunity to promote themselves academically.”*

<http://krieger.jhu.edu/publichealth/gordis-teaching-fellowship/>

## ***Department Endowments (Incoming Students)***

The following awards are sponsored by the Department of Epidemiology for degree candidates in the Department. These awards are issued to incoming students by the Admissions & Credentials Committee; there is no application process outside of a review of each student's application package.

### ***The Mary Meyers Scholars Program in Epidemiology***

The Department of Epidemiology is pleased to have generous and competitive scholarship program designed to identify, select, and support outstanding doctoral applicants. Selected incoming doctoral students will receive tuition support and stipend support. The program is open only to new students enrolling at JHSPH for the first time. The program provides a stipend and a full-tuition grant to cover the first year of the doctoral program for the selected candidates.

The Department expects to fund 1-2 students annually. Priority is granted to the very top candidates in reproductive and infant and child health from each entering class. Further funds may be available to the initial awardees for their subsequent years of study on a competitive renewal process. The Honors & Awards Committee will review and award continuing support if warranted.

The Scholars Program was originally established in 1981 by Dr. Meyer's family and friends as a lasting memorial to an associate professor who gave much to students and to the School. Through the continued generosity of her family, the Mary Meyer Award is now known as the Mary Meyer Scholars Program.

### ***The Robert Dyar Award***

Dr. Robert Dyar (MPH '37, DrPH '38) established this award to support Department of Epidemiology students who are concurrently pursuing medical degrees and who demonstrate a commitment to incorporating these fields in their research and future careers. The award is designed for incoming Epidemiology graduate students who have completed medical education or who have or are concurrently seeking medical degrees and is open to PhD and ScD applicants. Funds will be used to offset tuition or for a stipend.

The following awards are sponsored by the Department of Epidemiology for degree candidates in the Department. Each year, an announcement will be made regarding the details of these individual endowments. The awards are issued by the Department's Honors & Awards Committee.

### ***Harvey M. Meyerhoff Fellowship in Cancer Prevention***

This endowment was established by the Joseph Meyerhoff Family Charitable Funds in 2003 to assist with cancer prevention efforts. Income from this fund will support stipend or tuition to a doctoral student in the Department of Epidemiology whose research focuses on the epidemiology of cancer and cancer prevention.

## ***Department Endowments (Continuing Students)***

The following awards are sponsored by the Department of Epidemiology for degree candidates in the Department. Requests for nomination are issued every December, and applications are received and reviewed by the Department's Honors and Awards Committee; award recipients are notified in the spring.

### ***Miriam Brailey Fund***

The fund is named after Dr. Brailey, the first woman to be named to the Department's faculty. It was established by Dr. Jonathan Samet in 2000. The fund is designated as incoming support for graduate training and research in the Department of Epidemiology and will support members of underserved populations.

### ***Dr. & Mrs. Roscoe Moore Jr. Scholarship***

Dr. and Mrs. Roscoe Moore established this fund in 2000. The fund will be used to support doctoral students. All eligible students are considered with preference given to graduates of historically black colleges and universities.

### ***The Charlotte Silverman Award***

This award was established by Dr. Silverman in 1996 to acknowledge scholarly endeavors related to epidemiology and public policy with the goal of improving the health of communities. This award is designed to recognize Department of Epidemiology doctoral students and newer faculty for outreach projects involving significant research, education and/or service.

### ***Charlotte Ferencz Scholarship***

Dr. Ferencz devoted her professional life to unraveling the enormously complex issues posed by congenital heart disease. This scholarship supports students' research projects in the field of maternal and child health epidemiology. The intention of the Scholarship is to have the research, which may be part of the faculty's work, lead to a student's doctoral or master's thesis.

### ***The Jean Coombs Award***

This endowment was established by the estate of Jean Coombs (PhD '78). Preference is given to a doctoral student whose dissertation research concerns cancer or childhood diseases.

### ***The Abe Lilienfeld Scholarship Fund***

This endowment was established by Johns Alexander, MD, MPH, in memory of this distinguished former faculty member. Preference will be given to outstanding students in the area of applied epidemiology.

### ***The Dorothy and Arthur Samet Student Support Fund in Epidemiology***

This endowment was established by Dr. Jonathan Samet in 1996 to create a general fund to support student research or other activities. No application procedure is required; faculty members will nominate a qualified student. The award is presented to Master's or doctoral students whose dissertation research and/or extracurricular activities, exemplifies a significant contribution in the field of epidemiology.

### ***Louis I. Dublin and Thomas D. Dublin Fund for the Advancement of Epidemiology and Biostatistics***

The award in Biostatistics and Epidemiology will support graduate student research. The award is open to current and new students in both departments. Selections will alternate annually between Epidemiology and Biostatistics. The winner of this award will be selected by the Department of Biostatistics. Per the website, application material is due in February.

### *The Ellen B. Gold Fund for Epidemiology*

Income from the fund supports graduate students in the Department of Epidemiology. At least one award will be given each year to an academically outstanding doctoral student with financial need, who is within his or her first five years of studies.



## ***Other Departmental Support Funds (Doctoral Students)***

The following awards are sponsored by the Department of Epidemiology for degree candidates in the Department. These awards are offered to the Department's student body. Applications will be reviewed by the Department's Honors & Awards Committee. Please contact the Student Funding Coordinator to receive more information about these funds.

### ***Doctoral Thesis Research Fund***

The Department awards approximately 10 research grants each year to enable doctoral students to conduct research in the field of Epidemiology. The grant is designated for start-up funds of up to \$5,000 for doctoral thesis research and may be used for basic costs such as photocopying, buying of materials and supplies, payment of interviewers, etc. Application forms (contact the Student Financial Coordinator for details) should be completed including a statement of whether or not the project could be conducted without the Department funding, include the itemized budget, and include the 3-5 page thesis proposal. Applications should be submitted to the Student Financial Coordinator's Office (W6510) upon successful completion of the preliminary oral exam and IRB approval. Applications are reviewed by the members of the Honor and Awards Committee in a review cycle (to be determined). Students must be post-oral doctoral degree candidates in the Department of Epidemiology (PhD, ScD or DrPH) at the time of support. Applications should be received on October 31st and March 31st of each year respectively.

### ***Student Travel Support Fund in Epidemiology***

This fund supports student travel to present at conferences, symposiums, and the Society of Epidemiologic Research annual meeting. Additional notes: poster or presentation must be directly related to the dissertation and be accepted by the symposium or conference. It is a one-time award per student. Review will be ongoing throughout the year. Applicants will submit a letter requesting funds, a copy of their abstract, a letter of acceptance from the conference, and a travel budget of up to \$500 to the Student Financial Coordinator for distribution to the Honors and Awards members (only registration costs will be granted to Masters student or Postdoctoral applicants).

Students must be degree candidates in the Department of Epidemiology (MHS, ScM, PhD, ScD, DrPH or Postdoctoral) at the time of the conference to receive funds.

### ***The Marilyn Menkes Book Award***

The Marilyn Menkes Book Award was established in 1988 by friends and colleagues of Dr. Marilyn Spivak Menkes to commemorate her personal integrity and academic excellence. Each year, the students select nominees and vote on the awardee. The award is a \$100 prize toward the purchase of a book selected by the winner and presented to the recipient at the Department of Epidemiology's annual awards reception. Balloting is generally held during third term each year.

## SCHOOLWIDE FUNDING OPPORTUNITES

Students registered full-time in the School are eligible for consideration for a number of scholarships, research fellowships, and awards offered by the various departments of the School. Most of these are listed in the School's catalog. Notices generally begin appearing on bulletin boards and as email announcements throughout the School during second term.

Applications should follow the instructions provided by the announcements. These awards are usually made in early spring for the upcoming academic year. A full list of such scholarships can be found on the School's [website](http://www.jhsph.edu/offices-and-services/funding-opportunities/), (<http://www.jhsph.edu/offices-and-services/funding-opportunities/>), which was developed by the School to help students identify and secure outside sources of support for tuition and academic research.

## STUDENT GRANT APPLICATION ASSISTANCE

This policy applies to any Department student proposal (for dissertation, fellowship, stipend support, or otherwise) by which an external agency would award monies to the student through the University.

The student must schedule an initial meeting with the Student Funding Coordinator at least 45-60 days prior to the due date of the proposal to discuss the terms of the application and to be oriented to internal procedures. Any application brought to the Student Funding Coordinator's attention less than 30 days prior to due date will not be considered.

The student should send a copy of the PA (Program Announcement) or terms and Conditions to the Student Funding Coordinator prior to the meeting for review. The Student Funding Coordinator will assist the student with the cover page, budget, and any administrative technical questions.

The student must work with his/her mentor or adviser to develop an acceptable research proposal (science). The mentor or adviser must acknowledge a draft of the science (aims & research methods); certifying that it has met his/her acceptable standards for submission, before it is submitted to the Department Chair for final approval.

A copy of the research proposal/science (Specific Aims & Research Strategy only) affirmed by the advisor/mentor must be submitted to the Department Chair (W6041) no later than 10 business days prior to the due date for review. The advisor/mentor (not the student) should e-mail this document to his attention certifying that the science has met an acceptable review.

The student should immediately schedule a second meeting with the Student Funding Coordinator to review the final proposal and complete a JHURA internal information / compliance worksheet. This meeting should take place at least 5-7 business days prior to the due date so the Student Funding Coordinator has time to obtain the necessary e-signatures (Department Administrator, Department Chair).

The application (minus the science) must be submitted along with a signed information sheet to Johns Hopkins University Research Administration (JHURA) no later than 5 business days prior to the due date for review.

## STUDENT ACCOUNT INFORMATION

Student accounts can be viewed online [through the Student Information System \(https://sis.jhu.edu/sswf/Default.aspx\)](https://sis.jhu.edu/sswf/Default.aspx). Any outstanding balance that does not agree with one's anticipated support structure may be brought to the attention of the Student Financial Coordinator ([mmille16@jhu.edu](mailto:mmille16@jhu.edu)). Please note that students must clearly identify the problem and be as descriptive as possible, as the Student Financial Coordinator does not have access to view an individual student account. It is best if s/he describe the specific charge, term that the charge was applied, and amount in question. A printed statement of the account would be ideal. The Student Financial Coordinator will then work with the Bursar to resolve the issue.

## HELPFUL CONTACT INFORMATION

Matthew Miller  
Research Service Manager & Student Financial Coordinator Room W6510,  
(410) 955-2714, [mmille16@jhu.edu](mailto:mmille16@jhu.edu)

Jennifer Moessbauer  
Director of Graduate Education & Research  
Room W1033, (410) 955-3257, [jmoessbauer@jhu.edu](mailto:jmoessbauer@jhu.edu)

Financial Aid Office  
Room E1002, (410) 955-3004  
[finaid@jhsph.edu](mailto:finaid@jhsph.edu)  
<http://www.jhsph.edu/offices-and-services/student-affairs/financial-aid/>

Student Accounts and Business Services  
Room W1101, (410) 955-5725, [jhsph.bursar@jhu.edu](mailto:jhsph.bursar@jhu.edu)

# STUDENT LIFE & PROFESSIONAL ORGANIZATIONS

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## DIVERSITY AND INCLUSION

The department of epidemiology is dedicated to developing solutions and responses that are meaningful, sustainable, and that do not duplicate activities that are already being done elsewhere in the school. Developing meaningful and lasting solutions requires collaboration, research, and time.

Department diversity and inclusion activities fall under three broad overarching goals:

1. Communicating epidemiologic science to broad audiences;
2. Addressing how diversity influences our epidemiology practice and honoring the diversity in the audiences of our science; and
3. Fostering a culture of diversity and inclusion in the Department

Each goal includes short-term and long-term activities for faculty, students, and staff. Some of these activities have already begun and others are still in the planning phase. These activities below are only those that are sponsored or led by the Department; please see '[Diversity and Inclusion Additional Resources](#)' for a list of other resources offered through JHSPH that are outside of the Department.

### **GOAL 1: Communicating epidemiologic science to broad audiences**

- Host a series on "Communication of Epidemiologic Data" that can be embedded into Current Topics and would be open to faculty, staff, and students. Additionally, the department is exploring interactive workshops that could be held at Epidemiology Student Organization (ESO) meetings that follow-up on the topics discussed in larger session
- Review the epidemiology core competencies and explore which competencies could be expanded to include a diversity component

### **GOAL 2: Addressing how diversity influences epidemiology practice and honoring the diversity in the audiences of our science**

- Educate course instructors about how diversity by sex, gender identity, sexual orientation, race/ethnicity, discrimination, religion, socio-economic position, and populations that are understudied influences which epidemiological methods are used and the interpretation of study results
- Expand course offerings on diverse populations and allow student interaction with the populations studied through service-learning courses
- The Department will continue to support a Community Engagement Liaison who coordinates [Day at the Market](#) opportunities, which students can join. These are Johns Hopkins-coordinated outreach and education sessions to reach community members about health topics every Wednesday. Other sponsors include the Department of Environmental Health and Engineering, the Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins, and the Institute for Clinical and Translational Research
- Starting 1st term of the 2017-2018 year, Laura Camarata will be directing a Special Studies (340.840) on Community Engagement, which will formalize this effort, giving students credit for participating in the Hopkins Day at the Market
- The Department recommends that master's and doctoral students register for this special studies once during their degree program. Contact Laura Camarata at [lcamarata@jhu.edu](mailto:lcamarata@jhu.edu) for more information

### **GOAL 3: Fostering a culture of diversity and inclusion in the Department**

- To open up the discussion about diversity and inclusion in the Department
- Offer diversity & inclusion training for faculty and staff
- Host student-led workshops and small group discussions on diversity
- ESO would like to ensure that the group of students who plan activities and events reflect the diversity of the Department and the communities served. If students are interested in helping to develop or plan these events in the coming year, or be otherwise involved in ESO events, please contact [JHSPH.eso@jhu.edu](mailto:JHSPH.eso@jhu.edu)

## **EPIDEMIOLOGY STUDENT ORGANIZATION**

The Epidemiology Student Organization (ESO) was established in 1982 to facilitate student-to-student and student-to-faculty communication in the department and to advocate for student needs. The organization is comprised of all students associated with the Department of Epidemiology. It is a forum for planning various student activities, ranging from volunteer opportunities to social activities.

The organization is open to new ideas and initiatives from the student body, and all epidemiology students are encouraged to actively participate in ESO activities. ESO meetings are open to all students and are held on the first Monday of the month from 12:15-1:20 p.m.

## **EPIDEMIOLOGY STUDENT ROOM**

The Student Room is located in the Wolfe Street building, W6309, telephone: 410-614-1424.

All degree students in the department may obtain access to the Student Room. Access is obtained using ID badges and must be requested through the Academic Support Core Office in W6503.

Managed by the Epidemiology Student Organization (ESO), the room is equipped with several computers connected to the school's network. Students typically use the space for studying and holding informal meetings. Dissertations, master's theses (prior to 2013) and recent issues of the American Journal of Public Health, JAMA, Lancet, New England Journal of Medicine and Science are available, as well as a mini-lending library of key texts.

## PROFESSIONAL ORGANIZATIONS

Students are strongly encouraged to join professional organizations related to their topical research interests, and to attend and present their research at scientific conferences sponsored by those organizations.

### *Society for Epidemiologic Research (SER)*

The Society for Epidemiologic Research (SER) was established in 1968 as a forum for sharing the latest in epidemiologic research and for student research presentations. The SER sponsors the *American Journal of Epidemiology* and *Epidemiologic Reviews*, and the annual SER meeting, which includes the John C. Cassel Memorial Lecture and contributed papers, symposia, and posters on a wide range of epidemiologic issues.

Each year SER selects a limited number of students from the abstracts submitted to the annual conference to participate in an intense peer review/professional training workshop in which the students work with the faculty. This pre-conference activity provides the students with a venue to polish their work and provides an extra level of support and training at the professional level.

Students are strongly encouraged to join the organization (benefits include the two journals, an annual Student Prize Paper competition for presentation at the annual meeting, and student scholarships to attend the conference.) Applications are available online (<https://epiresearch.org/>).

### *American College of Epidemiology*

The American College of Epidemiology (ACE) is a professional organization whose mission is to develop criteria for professional recognition of epidemiologists and to address their professional concerns. Its goals are to advocate policies and actions that enhance the science and practice of epidemiology; promote the professional development of epidemiologists through educational initiatives; to recognize excellence in epidemiology; and to develop and maintain an active membership base of both Fellows and Members representative of all aspects of epidemiology. Students are encouraged to participate as student (associate) members and are recognized annually through the Student Prize Paper for excellence in research. The Annual Awardee is invited to present his/her paper at the annual meeting. Information on the ACE is available in W6503the Academic Coordinator's office or [online](#).

### *American Public Health Association*

The American Public Health Association (APHA) serves as the umbrella organization for all of public health and publishes the American Journal of Public Health, a print newsletter. The annual conference draws over 10,000 attendees and the APHA offers career search and mentoring services to become familiar with the profession. More information can be found [online](#) as well as a [student membership application](#).

## PUBLICATIONS

### *American Journal of Epidemiology*

*The American Journal of Epidemiology* is the premier epidemiological journal devoted to the publication of empirical research findings, opinion pieces, and methodological developments in the field of epidemiological research. It is a peer-reviewed journal aimed at both fellow epidemiologists and those who use epidemiological data, including public health workers and clinicians.

[http://www.oxfordjournals.org/our\\_journals/aje/about.html](http://www.oxfordjournals.org/our_journals/aje/about.html)

The American Journal of Epidemiology is published on behalf of the Department of Epidemiology and has been based in the department since its inception in 1920. Moyses Szklo, Professor of Epidemiology and Medicine at JHU, currently serves as the Editor-in-chief. Offices are located in the Candler Building, 111 Market Place, Suite 840, Baltimore, MD 21202.

### *Epidemiologic Reviews*

Epidemiologic Reviews, a sister publication of the American Journal of Epidemiology, is devoted to publishing comprehensive and critical reviews on specific themes once a year. Recent issues included the topics The Obesity Epidemic, Epidemiologic Research on Health Disparities, and Epidemiologic Approaches to Global Health. Michel A. Ibrahim, Professor of Epidemiology, currently serves as the Editor-in-Chief.

<http://epirev.oxfordjournals.org/>

## STRESS RELIEF AND MENTAL HEALTH

Student health and mental health are a priority for the Department, School and University. The [Student Assistance Program](#) is a free, confidential, evaluation and referral service available to all students in the School of Public Health regardless of health insurance coverage. Services are free and included short-term counseling; crisis response; healthy relationship support; school-life coaching and adjustment; educational workshops; and dean, faculty, staff and student consultations. Appointments may be scheduled at (443) 287-7000 or toll-free at (866) 764-2317.

## SCHOOLWIDE RESOURCES

A variety of [student resources](#) are available through the Johns Hopkins Bloomberg School of Public Health. These resources include, but are not limited to:

- [Academic Calendar](#)
- [Career Services](#)
- [Course Catalog](#)
- [CoursePlus](#)
- [Disability Support Services](#)
- [Faculty Directory](#)
- [Financial Aid](#)
- [Hopkins Medical Book Center](#)
- [Student Information System \(SIS\)](#)
- [Records & Registration](#)
- [SOURCE](#) (Student Outreach Resource Center)
- [Student Account & Business Services](#)
- [Student Assembly](#)
- [Student Assistance Program](#) (SAP)
- [Libraries](#)
- [Student Health Insurance](#)

## DIVERSITY AND INCLUSION ADDITIONAL RESOURCES

### Courses on advocacy, media engagement, and research translation

- 308.604.11: Effective Writing for Public Health Change (Summer Institute - HPM)
- 301.645.01: Health Advocacy (4<sup>th</sup> term - HPM)
- 410.663.01: Media Advocacy and Public Health: Theory and Practice (4<sup>th</sup> term - HBS)
- 410.721.01: Translating Research into Public Health Programs I (3<sup>rd</sup> term - HBS)
- 410.722.01: Translating Research into Public Health Programs I (3<sup>rd</sup> term - HBS)

### Courses on various aspects of diversity, inclusion, and cultural competency

- Click here for list of [courses](#).

### Resources for policy and community engagement, service, and science communication

- Bloomberg American Health Initiative. Click [here](#) for link.
- Engaging in the Policy Process Seminar Series hosted by the Office of Public Health Practice and Training. Click [here for link](#) to recorded sessions.
- Hopkins Day at the Market: attracts over 700 community members who learn about health topics. Click here for [link](#).
- [Johns Hopkins American Muslim Wellness Seminar Series](#) hosted by International Health Dept.
- [Johns Hopkins Center for Health and Human Resources](#).
- Public Health United: [Science Communication podcast](#) led by students from our school.
- SOURCE: <http://source.jhu.edu>
- [Urban Health Institute](#)

### Student groups

- Epidemiology Student Association: email [JHSPH.eso@jhu.edu](mailto:JHSPH.eso@jhu.edu).
- Social Epidemiology Journal Club: Contact Emily Knapp ([eknapp2@jhu.edu](mailto:eknapp2@jhu.edu))
- [Student Assembly](#): For list of student groups at JHSPH, click [here](#).
- [SPARC](#): Students for a Positive Academic Partnership with the East Baltimore Community.
- LEAD (hosts workshops on various topics, e.g., segregation in Baltimore City): email [leadathopkins@gmail.com](mailto:leadathopkins@gmail.com)

### Trainings

- [Office of Institutional Equity \(Title IX, bias, gender identity, and other MyLearning trainings\)](#)
- [Safe zone training](#)

### Campus Offices

- [Office of Diversity and Inclusion](#)
- [Office of International Services](#)
- [JHU Statement on Diversity & Inclusion](#)

## TITLE IX

Title IX of the Education Amendments of 1972 (“Title IX”) prohibits discrimination with a basis on sex in any federally-funded education program or activity. Title IX affects almost every facet of JHU.

Johns Hopkins University requires that all faculty, students, and staff complete the Title IX training. For additional information and trainings, please visit the Office of Institutional Equity site at <http://oie.jhu.edu/policies-and-laws/title-ix/index.html>.



# ADVISER/ADVISEE MANUAL

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Each student in the Department is assigned an adviser who has the responsibility of serving as a guide and mentor. This manual is intended to guide the student and the faculty member 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

An Academic Adviser 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 field work
  - Writing letters of reference
  - Assisting with grant preparation (doctoral students)
  - 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 confidentiality of students
- Encourage active participation in the greater community (department, school, university, local, state, national, international)

## STUDENTS MAY EXPECT THE FOLLOWING FROM THEIR ADVISERS:

- Adviser's 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 adviser
- Oversight of the student's overall academic program and a 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 a faculty member's responsibilities. Thus, the student should not feel that he/she is imposing by asking for advice. Faculty members expect to be available to 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

- 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 him/herself 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. The Department has a sizable portion of foreign students coming from diverse pre-professional and professional educational settings and, because of these unique experiences, these students have diverse needs as professionals, students, and individuals
- Advisers have the right to expect to be treated with respect and courtesy, to be notified in writing when a meeting must be cancelled 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 understand administrative policies and procedures and be familiar with the Student Handbook
- To maintain the academic checklist and review it at meetings with the adviser
- Advisees have the right to expect to be treated with respect and courtesy, to be notified in writing when a meeting must be cancelled or rescheduled, to be notified when advisers have questions or concerns about the research focus or progress, and to be granted the role of team member on the research team