

Full Sequence**Doctor of Philosophy (PhD) Program in Epidemiology****Fall Term, Year 1** (matriculation as of Fall 2023)

Course #	Course Title	Credits
BIOST 2041*	Introduction to Statistical Methods	3
EPIDEM 2004 (fall/spr/sum) <u>OR</u> EOH 3210 (spring)	Pathophysiology Across the Lifespan <u>OR</u> Pathophysiology of Environmental Disease	4 3
EPIDEM 2110*	Principles of Epidemiology	3
EPIDEM 2185 (fall) <u>OR</u> EPIDEM 2186 (fall)	Introduction to SAS <u>OR</u> Introduction to R for Public Health	2 2
EPIDEM 2250	Seminar in Epidemiology	1
PUBHLT 2022	Dean's Public Health Grand Rounds (must register for 2 terms)	0
Electives	In consultation with advisor	0-3
Internal Review Board (IRB) Training	Internal Review Board (IRB) Online Training – see Student Services staff for details	0
Pitt Public Health Academic Integrity Module Training	Please refer to the Pitt Public Health website for more information about this school-wide graduation requirement.	0

Spring Term, Year 1

BIOST 2049*	Applied Regression Analysis	3
EPIDEM 2004 (fall/spr/sum) <u>OR</u> EOH 3210 (spring)	Pathophysiology Across the Lifespan <u>OR</u> Pathophysiology of Environmental Disease	4 3
EPIDEM 2160 (spr 1 or spr 2)	Epidemiology of Infectious Diseases	2
EPIDEM 2180*	Fundamentals of Epidemiological Methods	3
EPIDEM 3183**	Reading, Analyzing, and Interpreting Public Health Medical Literature	3
EPIDEM 2250	Seminar in Epidemiology	1
EPIDEM 2600 (spr 1 or spr 2)	Introduction to Molecular Epidemiology	3
PUBHLT 2011	Essentials of Public Health (exempted with BSPH or MPH)	3
PUBHLT 2022	Dean's Public Health Grand Rounds (must register for 2 terms)	0
Electives	In consultation with advisor	0-3

Summer Term, Year 1

EPIDEM 2004 (fall/spr/sum) <u>OR</u> EOH 3210 (spring)	Pathophysiology Across the Lifespan <u>OR</u> Pathophysiology of Environmental Disease	4 3
Electives	In consultation with advisor	0-6

Fall Term, Year 2

EPIDEM 2170	Chronic Disease Epidemiology	2
EPIDEM 2181**	Design and Conduct of Clinical Trials	2
EPIDEM 2189	Epidemiological Methods of Longitudinal & Time-To-Event Analyses	3
EPIDEM 2210	Special Studies	Discuss w/ advisor
EPIDEM 2215 (fall/spr/sum)	Teaching Practicum	2
EPIDEM 2250	Seminar in Epidemiology	1
EPIDEM 2260	Epidemiologic Basis for Disease Control	2
XXXXX - XXXX ¹	Advanced Quantitative Course requirement	1-3
Electives	In consultation with advisor	0-3

Spring Term, Year 2

EPIDEM 2160 (spr 1 or spr 2)	Epidemiology of Infectious Diseases	2
EPIDEM 2192	Causal Inference in Epidemiologic Research	3
EPIDEM 2210	Special Studies	Discuss w/ advisor
EPIDEM 2215 (fall/spr/sum)	Teaching Practicum	2
EPIDEM 2230 (spr 2 or spr 3)	Secondary Data Analysis: A Capstone Course	2
EPIDEM 2250	Seminar in Epidemiology	1
EPIDEM 2600 (spr 1 or spr 2)	Introduction to Molecular Epidemiology	3
XXXXX - XXXX ¹	Advanced Quantitative Course requirement	1-3
Electives	In consultation with advisor	0-4

Summer Term, Year 2

EPIDEM 2210	Special Studies	Discuss w/ advisor
Electives	In consultation with advisor	0-6

Fall Term, Year 3

EPIDEM 2193	Machine Learning and Bayesian Analysis in Epidemiological Research	3
EPIDEM 2210 <u>OR</u> EPIDEM 3100	Special Studies <u>OR</u> Research and Dissertation	Discuss w/ advisor
EPIDEM 2215 (fall/spr/sum)	Teaching Practicum	2
EPIDEM 2250	Seminar in Epidemiology	1
EPIDEM 2921	Grant Writing	3
PUBHLT 2030	Research Ethics and the Responsible Conduct of Research	1
XXXXX-XXXX ¹	Advanced Quantitative Course requirement	1-3
Electives	In consultation with advisor	0-4

Spring Term, Year 3

EPIDEM 2210 <u>OR</u> EPIDEM 3100 <u>OR</u> FTDR 3999	Special Studies <u>OR</u> Research and Dissertation <u>OR</u> Full-Time Dissertation Research (determined by level of academic progress)	Discuss w/ advisor
EPIDEM 2215 (fall/spr/sum)	Teaching Practicum	2
EPIDEM 2230 (spr 2 or spr 3)	Secondary Data Analysis: A Capstone Course	2
EPIDEM 2250	Seminar in Epidemiology	1
Electives	In consultation with advisor	0-10

¹ **One advanced quantitative course is required. Choose from the following:**

BCHS 2991, BCHS 3002, BCHS 3015, BIOST 2016, BIOST 2050, BIOST 2066, EFOP 3408, HPM 3505, and HUGEN 2080

NOTE: HUGEN 2070 also qualifies as an advanced quantitative course. However, this course is no longer being offered.

REMINDER: Questions about other courses not on the above list that may qualify to meet this requirement should be discussed with your advisor. If your advisor agrees that the class might qualify, information about it should be forwarded to the Epidemiology Curriculum Committee Chair via the Epidemiology Student Services Manager.

OTHER PhD REQUIREMENTS (no credits involved): OTHER PhD REQUIREMENTS (no credits involved): Contact your academic advisor or the Epidemiology Student Services Manager smithl@pitt.edu for more information. They must be completed prior to graduation.

- **Primary Data Collection & Management Requirement**
- **Independent Development Plan (IDP) submission** (Doctoral students must submit IDP's annually. A reminder about this requirement will be emailed to students in spring term).
- **Presentation Training – Competency in Communication** (two presentations must be delivered)

*Course should be completed before sitting for the preliminary examinations unless exempted

**Students who have completed this course performed better on the preliminary exams than those who did not.

Accelerated Sequence (students with prior MS/MPH in epidemiology and advisor approval) ***Doctor of Philosophy (PhD) Program in Epidemiology****Fall Term, Year 1** (matriculation as of Fall 2023)

Course #	Course Title	Credits
EPIDEM 2004 (fall/spr/sum) <u>OR</u> EOH 3210 (spring)	Pathophysiology Across the Lifespan <u>OR</u> Pathophysiology of Environmental Disease	4 3
EPIDEM 2170 (fall 1 or fall 2)	Chronic Disease Epidemiology	2
EPIDEM 2181**	Design and Conduct of Clinical Trials	2
EPIDEM 2185 (fall) <u>OR</u> EPIDEM 2186 (fall)	Introduction to SAS <u>OR</u> Introduction to R for Public Health	2 2
EPIDEM 2189	Epidemiological Methods of Longitudinal & Time-To-Event Analyses	3
EPIDEM 2215 (fall/spr/sum)	Teaching Practicum	2
EPIDEM 2250	Seminar in Epidemiology	1
EPIDEM 2260	Epidemiologic Basis for Disease Control	2
PUBHLT 2022	Dean's Public Health Grand Rounds (must register for 2 terms)	0
Electives	In consultation with advisor	0-3
Internal Review Board (IRB) Training	Internal Review Board (IRB) Online Training (see Student Services staff for details)	0
Pitt Public Health Academic Integrity Module Training	Please refer to the Pitt Public Health website for more information about this school-wide graduation requirement.	0

Spring Term, Year 1

EPIDEM 2004 (fall/spr/sum) <u>OR</u> EOH 3210 (spring)	Pathophysiology Across the Lifespan <u>OR</u> Pathophysiology of Environmental Disease	4 3
EPIDEM 2160 (spr 1 or spr 2)	Epidemiology of Infectious Diseases	2
EPIDEM 3183**	Reading, Analyzing, and Interpreting Public Health Medical Literature	3
EPIDEM 2192	Causal Inference in Epidemiologic Research	3
EPIDEM 2215 (fall/spr/sum)	Teaching Practicum	2
EPIDEM 2250	Seminar in Epidemiology	1
EPIDEM 2600 (spr 1 or spr 2)	Introduction to Molecular Epidemiology	3
PUBHLT 2011	Essentials of Public Health (exempted with BSPH or MPH)	3
PUBHLT 2022	Dean's Public Health Grand Rounds (must register for 2 terms)	0
Electives	In consultation with advisor	0-3

Summer Term, Year 1

EPIDEM 2004 (fall/spr/sum) <u>OR</u> EOH 3210 (spring)	Pathophysiology Across the Lifespan <u>OR</u> Pathophysiology of Environmental Disease	4 3
Electives	In consultation with advisor	0-6

Fall Term, Year 2

EPIDEM 2170 (fall 1 or fall 2)	Chronic Disease Epidemiology	2
EPIDEM 2193 (fall 2 or fall 3)	Machine Learning and Bayesian Methods (offered first time in Fall 2023)	3
EPIDEM 2210	Special Studies	Discuss w/advisor
EPIDEM 2215 (fall/spring/sum)	Teaching Practicum	2
EPIDEM 2250	Seminar in Epidemiology	1
PUBHLT 2030	Research Ethics and Responsible Conduct of Research	1
XXXXX-XXXX ¹ (fall/spring/sum)	Advanced Quantitative Course requirement	1-3
Electives XXX	In consultation with advisor	0-5

Spring Term, Year 2		
EPIDEM 2160 (spr 1 or spr 2)	Epidemiology of Infectious Diseases	2
EPIDEM 2210	Special Studies	Discuss w/ advisor
EPIDEM 2215 (fall/spr/sum)	Teaching Practicum	2
EPIDEM 2230 (spr 2 or spr 3)	Secondary Data Analysis: A Capstone Course	2
EPIDEM 2250	Seminar in Epidemiology	1
EPIDEM 2600 (spr 1 or spr 2)	Introduction to Molecular Epidemiology	3
Electives	In consultation with advisor	0-5
Fall Term, Year 3		
EPIDEM 2193 (fall 2 or fall 3)	Machine Learning and Bayesian Analysis in Epidemiological Research	3
EPIDEM 2215 (fall/spr/sum)	Teaching Practicum	2
EPIDEM 2921	Grant Writing	3
EPIDEM 2210 <u>OR</u> EPIDEM 3100	Special Studies <u>OR</u> Research and Dissertation	Discuss w/advisor
XXXXX-XXXX ¹ (fall/spring/sum)	Advanced Quantitative Course requirement	1-3
Electives	In consultation with advisor	0-8
Spring Term, Year 3		
EPIDEM 2210 <u>OR</u> EPIDEM 3100 <u>OR</u> FTDR 3999	Special Studies <u>OR</u> Research and Dissertation <u>OR</u> Full-Time Dissertation Research (determined by level of academic progress)	Discuss w/ advisor
EPIDEM 2215 (fall/spr/sum)	Teaching Practicum	2
EPIDEM 2230 (spr 2 or spr 3)	Secondary Data Analysis: A Capstone Course	2
EPIDEM 2250	Seminar in Epidemiology	1
Electives	In consultation with advisor	0-10

¹One advanced quantitative course is required. Choose from the following:

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OTHER PhD REQUIREMENTS (no credits involved): Contact your academic advisor or the Epidemiology Student Services Manager smithl@pitt.edu for more information. They must be completed prior to graduation.

- **Primary Data Collection & Management Requirement**
- **Independent Development Plan (IDP) submission** (Doctoral students must submit IDP's annually. A reminder about this requirement will be emailed to students in spring term).
- **Presentation Training – Competency in Communication** (two presentations must be delivered)

*Doctoral students interested in following this accelerated sequence will need the approval of their Advisor **AND** the Program Director to exempt from the following prerequisite courses: EPIDEM 2110, BOST 2041, EPIDEM 2180, BOST 2049. This exemption will only be granted if they have previously taken these courses or similar courses in another program. To receive the exemption, students should discuss with their academic advisor and submit transcripts and course syllabi to the PhD program director for approval. Students receiving exemptions are strongly recommended to participate in EPIDEM 2110 or EPIDEM 2180 as a Teaching Assistant given that these courses are required for the preliminary examinations.

**Students who have completed this course performed better on the preliminary exams than those who did not.

University of Pittsburgh, Department of Epidemiology Recent Doctoral Program Dissertation Titles

- Risk of Longer-term Neurological and Endocrine/Metabolic Conditions in the Deepwater Horizon Oil Spill Coast Guard Cohort Study.
- The Family Social Environment and its Relation to ADHD Symptoms and Cognitive Performance in Children Born to Black Teenage Mothers.
- Multidimensional sleep health during pregnancy – The influences of prenatal depression and experiences of racial discrimination.
- Diet Quality Improvement in Weight Loss Trials.
- Isoflavones, equol producing status, and atherosclerosis in Japanese men in Japan.
- High-Density Lipoprotein (HDL) Metrics in Midlife Women: Associations with Adiposity, Subclinical Atherosclerosis and Cardiovascular Health.
- Preterm Delivery and Maternal Cardiovascular Health.
- Alterations in Cardiometabolic and Vascular Function Measures During the Menopause Transition.
- Age at Natural Menopause and Its Determinants in Women with Type 1 Diabetes.
- Identification of Metabolic, Immune, and Genetic Risk Factors for Hepatocellular Carcinoma.
- Examining the Association of Chronic Health Conditions and Adverse Health Outcomes: Knee OA and Recurrent Falls Knee OA and Mobility Limitations Sarcopenia and Fractures.
- Cardiometabolic-Health Related Risk Factors and Physical Function with Aging: Targets for Lifestyle Intervention.
- The Respiratory Mycobiome in Critical Illness.
- The Impact of Roux-en-Y Gastric Bypass on Inflammation and Cardiovascular Disease.
- Repeat Revascularization and Death Following Percutaneous Coronary Intervention in Patients with Type 2 Diabetes: Risk Factors, Biological Mechanisms and Prognostic Models.
- Effects of Inpatient Rehabilitation on Long-Term Motor, Neuropsychological, and Functional Outcomes in Children with Severe Traumatic Brain Injury.
- Novel Approaches to Diagnostics for Women at High Risk for Endometrial Cancer: A Holistic Approach.
- The Role of Central Nervous System in Complex Walking Among Older Adults.
- Informing Low-Dose Aspirin in Gestation and Reproduction Through Novel Methods in Causal Inference.

EPIDEMIOLOGY DOCTORAL PROGRAM POST-GRADUATE POSITIONS

Public Sector	Job Title
US Centers for Disease Control and Prevention	Presidential Management Fellow—Public Health Analyst; Opioid Overdose Surveillance --Health Scientist
Epidemic Intelligence Services (CDC-EIS)	Officer
US Food and Drug Administration, Office of Surveillance and Biometrics	Lead Epidemiologist
US Food and Drug Administration, Center for Food Safety and Applied Nutrition, Office of Analytics and Outreach	Infectious Disease Epidemiologist
US Department of Health and Human Services, Office of Minority Health	Director, Division of Policy and Data
National Institute for Occupational Safety and Health (NIOSH)	Epidemiologist
National Institute of Child Health and Human Development	Epidemiology Postdoctoral Fellow
Society for Health and Research India (SHARE INDIA)	Associate Research Director
Pennsylvania Department of Health	Epidemiologist; Viral Hepatitis Prevention Coordinator
Allegheny County Health Department	Chief Epidemiologist
Philadelphia Department of Public Health	Acute Communicable Disease Program Manager
Maricopa County Department of Public Health, Office of Epidemiology (Phoenix, Arizona)	Public Health Scientist
UNICEF	Immunology Consultant
VA Pittsburgh Healthcare System Center for Health Equity Research and Promotion	Advanced Fellow in Health Science Research and Development
VHA – VA Boston	Program Coordinator – Clinician Scientist
Ministry of Health	Department of Epidemiology – Head
Private Sector	Job Title
Cardno Chemrisk	Senior Health Scientist
Pacira Pharmaceuticals	Associate Medical Director
Booz Allen Hamilton	Lead Scientist, Senior Epidemiologist

Bristol-Myers Squibb	Research Investigator—Translational Bioinformatics Late Stage Oncology
Pfizer	Director, Epidemiology
Merck	Epidemiologist
Astra Zeneca	Director of Patient Centric Science
Astra Zeneca	Research Scientist
Highmark	Lead Decision Support Analyst
Meso Scale Diagnostics, LLC	Manager I, Regulatory Affairs & Compliance
STC (Scientific Technologies Corporation) Health	Epidemiologist
University of Pittsburgh Medical Center (UPMC)	Analytics Data Integration Developer
Academics	Job Title
University of Minnesota, Medical School	Professor of Family Medicine and BioBehavioral Health, Associate Dean for Research
Georgetown University, School of Medicine	Professor; Associate Director for Minority Health and Health Disparities Research
University of South Florida, College of Public Health	Professor
University of Wisconsin – Madison, Departments of Ophthalmology and Visual Sciences and Population Health Sciences	Professor
University of Massachusetts Amherst, School of Public Health and Health Sciences	Associate Professor and Epidemiology Program Head
Fred Hutchinson Cancer Research Center (Seattle, Washington)	Assistant Professor, Epidemiology Program
Harvard Medical School and Brigham and Women’s Hospital	Instructor in Medicine and Associate Epidemiologist
Wake Forest School of Medicine, Department of Internal Medicine, Gerontology and Geriatric Medicine	Assistant Professor
King Abdulaziz University, Jeddah, Saudi Arabia	Assistant Professor
Duke University, School of Medicine	Assistant Professor of Pediatrics
University of North Carolina at Chapel Hill, School of Medicine	Research Assistant Professor
University of Pittsburgh, Graduate School of Public Health	Professor Associate Provost
University of Pittsburgh—School of Medicine	Assistant Professor
University of Pittsburgh—School of Health and Rehabilitation Sciences	Assistant Professor and Director, Didactic Program in Nutrition and Dietetics
Nationwide Children’s Hospital, Research Institute (Columbus, Ohio)	Research Assistant Professor
University of Texas , Glenn Biggs Institute for Alzheimer’s & Neurodegenerative Diseases	Assistant Professor
SUNY Downstate Medical Center	Assistant Professor of Epidemiology
Public Health Foundation of India	Assistant Professor

Updated 9/6/2023

Icahn School of Medicine at Mount Sinai—Brain Injury Research Center	Postdoctoral Fellow
Texas A&M University	Postdoctoral Research Associate
Virginia Commonwealth University—School of Medicine, Department of Epidemiology	Postdoctoral Fellow
Emory University—School of Medicine	Senior Biostatistician
University of Pittsburgh—Health Policy Institute—Center for Pharmaceutical Policy and Prescribing	Postdoctoral Fellow
Johns Hopkins Bloomberg School of Public Health	Postdoctoral Fellow
University of Pittsburgh—School of Medicine	Senior Research Analyst
Kazakh National University	Postdoctoral Fellow