

2023-2024 Catalog



EMORY

ROLLINS
SCHOOL OF
PUBLIC
HEALTH



Rollins School of Public Health

Emory University
1518 Clifton Road, N.E. Atlanta, Georgia 30322

Rollins School of Public Health Admissions and Student Services: 404.727.3956
Monday–Friday, 8:30 a.m.–5:00 p.m.

See page 218 for additional directory information.
Visit us on the web at www.sph.emory.edu.

EQUAL OPPORTUNITY POLICY

Emory University is dedicated to providing equal opportunities to all individuals regardless of race, color, religion, ethnic or national origin, gender, genetic information, age, disability, sexual orientation, gender identity, gender expression, and veteran’s status. Emory University does not discriminate in admissions, educational programs, or employment on the basis of any factor stated above or prohibited under applicable law. Students, faculty, and staff are assured of participation in university programs and in use of facilities without discrimination. The university also complies with all applicable federal and Georgia statutes and regulations prohibiting unlawful discrimination. All members of the student body, faculty, and staff are expected to assist in making this policy valid in fact. Any inquiries regarding this policy should be directed to the Emory University Office of Equity and Inclusion, 201 Dowman Drive, Administration Building, Suite 305, Atlanta, Georgia 30322. Telephone: 404.727.6123.

AFFIRMATIVE ACTION POLICY

Emory University has an approved Affirmative Action Plan and complies with Executive Order 11246, as amended, Section 503 of the Rehabilitation Act Of 1973, the Vietnam Era Veteran’s Readjustment Assistance Act, and applicable regulations thereunder. Any inquiries should be directed to the Emory University Office of Equal Opportunity Programs.

AMERICANS WITH DISABILITIES ACT

If you are an individual with a disability and wish to acquire this publication in an alternative format, please contact the associate dean for academic affairs, Rollins School of Public Health, Emory University 1518 Clifton Road, N.E., Atlanta, Georgia 30322. Telephone: 404.727.7703.

Emory University is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate, baccalaureate, master’s, doctorate, and professional degrees. Contact the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Emory University.

The [Council on Education for Public Health \(CEPH\)](#) is an independent agency responsible for accrediting schools and programs in public health. CEPH accreditation sets a standard by which all accredited schools and programs of public health work to enhance health in human populations, through organized community effort. Accreditation by CEPH means that we have rigorously evaluated the quality and content of our instruction, research, and services programs and have successfully met CEPH’s published criteria—and that’s important to us. RSPH completed a rigorous self-study process, which involved a systematic and rigorous evaluation of the quality and content of our instruction, research and service programs. This process culminated in the CEPH re-accreditation site visit in October 2019. Upon review of our self-study, CEPH notified the Rollins School of Public Health in March 2020 that it was fully accredited through July 1, 2027 for a seven-year accreditation period—the maximum awarded for schools and programs of public health.

TABLE OF CONTENTS

Letter from the Dean5

The University6

Rollins School of Public Health7

Educational Resources..... 20

Academic Policies.....29

Honor and Conduct Code.....41

Degree Programs49

Department of Behavioral, Social, and Health Education Sciences51

Department of Biostatistics and Bioinformatics63

Gangarosa Department of Environmental Health.....80

Department of Epidemiology94

Department of Health Policy and Management114

Hubert Department of Global Health128

Executive Master of Public Health154

Interdepartmental Programs166

Dual-Degree Programs171

Accelerated MPH180

Rollins Certificate Programs.....181

Special Programs.....193

Doctoral Programs 195

Collaborative Programs196

Centers199

Additional Resources 206

City of Atlanta209

Trustees and Administration.....210

Academic Calendar.....212

Directory214

THE UNIVERSITY RESERVES THE RIGHT TO REVISE PROGRAMS, INFORMATION, REQUIREMENTS, REGULATIONS, OR FINANCIAL CHARGES AT ANY TIME. WHENEVER CHANGES OCCUR, AN EFFORT WILL BE MADE TO NOTIFY PERSONS WHO MAY BE AFFECTED.



M. DANIELE FALLIN, PhD
JAMES W. CURRAN DEAN OF PUBLIC HEALTH

This has been a challenging time for humanity. In addition to the ongoing COVID-19 pandemic, we have faced continued gun violence, acts of racism, deteriorating mental health, newly emerging infections, natural disasters, wars, climate crises, limitations to reproductive health care, and more. Public health education, practice, and research are needed now more than ever.

Celebrating a diversity of backgrounds, interest areas, and ideologies, Rollins faculty, students, staff, and alumni are unified by their commitment to tackling the world's major health problems through excellence in research, practice, and academics. Core to this vision is a commitment toward diversity, equity, and inclusion, which extends not only to race, religion, sexual orientation, or gender, but also to a diversity of thought and opinion. At Rollins, you will be immersed in a work and learning environment where these values are supported and encouraged.

Prior to beginning my role as dean, I repeatedly found myself asking my future colleagues what makes Rollins special. The unanimous response was, "the people." At Rollins, you will find not only exceptional researchers, students, and academics, but also outstanding human beings who are approachable, empathetic, and kind. This is evidenced not only in the dedication they place in their work, but in their interactions with one another.

Included in our community, you will find researchers collaborating with NASA on air pollution programs; epidemiologists developing COVID-19 models; researchers dedicated to improving maternal and reproductive health; behavioral scientists studying the impact of racial and economic disparities on health outcomes; and researchers working to prevent the spread of the world's deadliest infectious and chronic diseases including HIV/AIDS, cancer, heart disease, and diabetes.

At Rollins, you will find yourself challenged and embraced by a community driven by our shared desire to make a positive impact on the world around us.

I appreciate your interest in our school and look forward to meeting you!

M. Daniele Fallin, PhD
James W. Curran Dean of Public Health
Rollins School of Public Health

THE UNIVERSITY

Since 1836, Emory's mission—to create, preserve, teach, and apply knowledge in the service of humanity—has guided the university in its work to drive discovery, serve the common good, and prepare leaders to make a difference in the world.

At the heart of Emory's impact is a distinct purpose: to think beyond oneself. This purpose—this sense of responsibility—is present among students, faculty, and alumni across generations. Whether you work here, teach here, learn or connect here, Emory is a community of impact where the greater good is balanced with individual interest. Our courageous community of seekers and solvers continues to imagine and realize the university's mission: to create, preserve, teach, and apply knowledge in the service of humanity.

Emory is recognized internationally for its outstanding liberal arts colleges, graduate and professional schools, and one of the world's leading health care systems. One of 65 member institutions, the university has been part of the prestigious Association of American Universities since 1995.

Behind Emory's fundamental commitment to providing a rigorous liberal arts education within one of the nation's top research universities is a belief in the ardent pursuit of knowledge and its transformative power. This approach, led by our eminent faculty, results in students willing to take intellectual risks, their curiosity sparked through the mentorship they receive and the unique culture of engaged discourse that exists here.

Emory offers an academic experience where students discover a culture of open and civil discourse, develop the confidence to confront difficult questions, work closely with academic experts, and connect with a set of peers as diverse as the world around them. Emory students are more qualified, as well as more economically and internationally diverse, than ever before in our history. They come from all 50 states and more than 100 countries, and they speak 80 languages other than English at home or as a first language.

We are located on a beautiful campus in Atlanta, Georgia's historic Druid Hills neighborhood. Whatever your interest in Emory, we would welcome your visit to campus.

The Robert W. Woodruff Health Sciences Center

The Robert W. Woodruff Health Sciences Center joins those components of Emory University concerned with patient care, education of health professionals, research affecting health and illness, and policies for prevention and treatment of disease. The center is named for Robert W. Woodruff, a man whose vision and generosity left a lasting imprint on Emory and the city of Atlanta. The center consists of the following: Emory School of Medicine, Rollins School of Public Health, Nell Hodgson Woodruff School of Nursing, Yerkes National Primate Research Center, Winship Cancer Institute, and Emory Healthcare, the largest, most comprehensive health system in Georgia.



Mission

The mission of the Rollins School of Public Health of Emory University is to make the world healthier and more equitable through excellence in research, education, and practice.

At the Rollins School of Public Health, students learn to identify, analyze, and intervene in today's most pressing public health issues. The school's location in Atlanta, referred to as the "Public Health Capital of the World," is home to the U.S. Centers for Disease Control and Prevention; CARE; the national home office of the American Cancer Society; The Carter Center; the Arthritis Foundation; the Task Force for Global Health; numerous state and regional health agencies; and the patient care, teaching, and health-related research programs of Emory University's Woodruff Health Sciences Center. This setting is ideal for hands-on research and collaborations with the world's leading public health agencies, as well as interdisciplinary work with national and international organizations.

The program is community oriented, and many students bring actual problem-solving experience with them. Students join the Rollins community from all 50 states and more than 50 foreign countries to contribute to the school and apply knowledge to promote health and prevent disease in human populations.

The school comprises six academic departments: behavioral, social and health education sciences; biostatistics and bioinformatics; environmental health; epidemiology; health policy and management; and global health. Twenty-six interdisciplinary centers include:

- Biostatistics Consulting Center
- Center for AIDS Research at Emory University
- Center for Behavioral Health Policy Studies
- Center for Biomedical Imaging Statistics
- Center for Global Safe Water, Sanitation, and Hygiene
- Center for the Health of Incarcerated Persons
- Center for Humanitarian Emergencies at Emory
- Center for Public Health Preparedness and Research
- Center for Reproductive Health Research in the Southeast
- Center for Spina Bifida Research, Prevention, and Policy
- Center for Translational and Prevention Science
- Emory Center for Training and Technical Assistance
- Emory Global Diabetes Research Center
- Emory Prevention Research Center
- Emory Program in Cardiovascular Outcomes Research and Epidemiology
- Georgia Center for Cancer Statistics
- Georgia Center for Diabetes Translation Research
- Health and Exposome Research Center – Understanding Lifetime Exposures
- Injury Prevention Research Center at Emory
- Interfaith Health Program
- The Joseph W. Blount Center for Health and Human Rights
- Region IV Public Health Training Center
- Southeastern Center for Air Pollution and Epidemiology
- Southeastern Institute for Training and Evaluation
- Women's and Children's Center.

Over 200 full-time, doctoral-level faculty members teach and conduct research in areas such as mathematical modeling of infectious disease transmission, exploration of relationships between nutrition and chronic disease, and investigation of cancer causation and control.

ROLLINS SCHOOL OF PUBLIC HEALTH

Other research interests include identifying the social determinants of physical and mental health; HIV/AIDS; detecting and preventing adverse outcomes in occupational settings; community based participatory research; and evaluating the cost of health care and the allocation of health resources.

Rollins offers dual-degree programs with Emory's business, medical, nursing, theology, graduate, and law schools, and with the physician's assistant and physical therapy program. In addition to these programs, the schools of public health and medicine collaborate on many levels. Research areas of mutual interest include nutrition, Alzheimer's disease, and the prevention and control of AIDS, cardiovascular disease, cancer, and adverse reproductive outcomes.

Rollins also draws strength from several unique local resources. The U.S. Centers for Disease Control and Prevention, the federal agency dedicated to developing and applying disease prevention and control programs, provides more than half of the school's 200-plus adjunct faculty members. Over 1,100 Rollins alumni are currently employed by the CDC. The Carter Center is involved in global health intervention programs that provide students with Applied Practice Experience opportunities. The school also shares research activities with the national headquarters of the American Cancer Society and international headquarters of CARE, both based in Atlanta.



Rollins School Of Public Health Of Emory University

Core Competencies

Upon graduation a student with an MPH/MSPH should be able to:

1. Apply epidemiological methods to settings and situations in public health practice.
2. Select quantitative and qualitative data collection methods appropriate for a given public health context.
3. Analyze quantitative and qualitative data using biostatistics, informatics, computer-based programming and software, as appropriate.
4. Interpret results of data analysis for public health research, policy, or practice.
5. Compare the organization, structure, and function of health care, public health, and regulatory systems across national and international settings.
6. Discuss the means by which structural bias, social inequities, and racism undermine health and create challenges to achieving health equity at organizational, community, and systemic levels.
7. Assess population needs, assets, and capacities that affect communities' health.
8. Apply awareness of cultural values and practices to the design, implementation, or critique of public health policies or programs.
9. Design a population-based policy, program, project or intervention.
10. Explain basic principles and tools of budget and resource management.
11. Select methods to evaluate public health programs.
12. Discuss the policy-making process, including the roles of ethics and evidence.
13. Propose strategies to identify stakeholders and build coalitions and partnerships for influencing public health outcomes.
14. Advocate for political, social or economic policies and programs that will improve health in diverse populations.
15. Evaluate policies for their impact on public health and health equity.
16. Apply leadership and/or management principles to address a relevant issue.
17. Apply negotiation and mediation skills to address organizational or community challenges.
18. Select communication strategies for different audiences and sectors.
19. Communicate audience-appropriate (i.e., non-academic, non-peer audience) public health content, both in writing and through oral presentation.
20. Describe the importance of cultural competence in communicating public health content.
21. Integrate perspectives from other sectors and/or professions to promote and advance population health.
22. Apply a systems thinking tools to visually represent a public health issue in a format other than standard narrative.

Department of Behavioral, Social, and Health Education Sciences

MPH in Behavioral, Social, and Health Education Sciences

Upon completion of the MPH degree, graduates will be able to:

- Analyze public health history for perspective on current health problems.
- Apply the socio-ecological framework or other theories to public health research, policy, or practice.
- Select study designs to plan health promotion research or evaluation.
- Select valid and reliable instruments to measure variables in public health research, policy, or practice.
- Synthesize a range of multidisciplinary scientific literature for public health research, policy, or practice.
- Use behavioral and social science theories to guide data analysis for public health research, policy, or practice.
- Engage collaborators in community assessment, program design, or program evaluation.
- Apply qualitative or quantitative methods to public health research, policy, or practice.
- Design or implement an evaluation plan to assess public health programs.
- Apply ethical principles relevant to public health research, policy, or practice.
- Identify multilevel strategies to advance health equity in public health research, policy, or practice.

PhD in Behavioral, Social, and Health Education Sciences

Upon completion of the PhD degree, graduates will be able to:

- Design theoretically-informed interventions that operate at multiple levels to prevent disease, reduce health risks, or improve quality of life.
- Develop original research questions and describe research designs and advanced statistical analysis plans to address those research questions.
- Conduct original, theoretically-informed research directly related to the social sciences, behavioral sciences, and/or health education in the context of public health.
- Develop the skills needed to teach students about public health content.
- Apply principles of ethical conduct to public health research.

Department of Biostatistics and Bioinformatics

MPH in Biostatistics

Upon completion of the MPH degree, graduates will be able to:

- Identify statistical issues in contemporary public health problems.
- Perform power and sample size calculations to assist in the design of clinical or observational studies.
- Use statistical software for advanced data management.
- Analyze continuous data using linear regression models and discrete data using generalized linear models.
- Analyze right-censored data with time-to-event regression models.
- Analyze correlated data (longitudinal and multi-level) using mixed effect and marginal models.
- Explain fundamental concepts of probability and inference used in statistical methodology.

MSPH in Biostatistics

Upon completion of the MSPH degree, graduates will be able to:

- Identify statistical issues in contemporary public health problems.
- Perform power and sample size calculations to assist in the design of clinical or observational studies.
- Use statistical software for advanced data management.
- Analyze continuous data using linear regression models and discrete data using generalized linear models.
- Analyze right-censored data with time-to-event regression models.

- Analyze correlated data (longitudinal and multi-level) using mixed effect and marginal models.
- Assess the impacts of assumptions in advanced statistical analysis using probability and statistical theory.
- Apply concepts in probability and statistical theory to define performance or extend basic statistical analysis techniques.
- Assess technical accuracy and performance of advanced analytic methods.

BA/MSPH in Biostatistics

The MSPH competencies related to this degree are the same as the MSPH in Biostatistics competencies.

PhD in Biostatistics

Upon completion of the PhD degree, graduates will be able to:

- Conduct independent research in the application of biostatistics.
- Develop and assess new statistical theory as needed.
- Develop and assess new statistical methods to address a broad range of complex biomedical or public health problems.
- Conduct complex statistical analyses for a broad range of applications.
- Teach statistical theory or methodology at multiple levels.

Gangarosa Department of Environmental Health

MPH in Environmental Health

Upon completion of the MPH degree, graduates will be able to:

- Explain major environmental risks to human health ranging from the local to global scale.
- Apply the principles of exposure science to characterize environmental exposures.
- Describe how the principles of toxicology can be used to assess health effects of environmental exposure.
- Apply the principles of epidemiology to assess health effects of environmental exposures.
- Explain major policy issues in environmental health.
- Evaluate the risks posed by environmental hazards using risk assessment methods.
- Apply principles and frameworks of environmental justice and social determinants of health to environmental health issues.

MPH in Global Environmental Health

Upon completion of the MPH degree, graduates will be able to:

- Explain major environmental risks to human health ranging from the local to global scale.
- Apply the principles of exposure science to characterize environmental exposures.
- Describe how the principles of toxicology can be used to assess health effects of environmental exposure.
- Apply the principles of epidemiology to assess health effects of environmental exposures.
- Explain major policy issues in global environmental health.
- Use qualitative and quantitative data sources to assess global health outcomes or risk factors, including temporal trends such as past or current patterns as well as projected future trends, and distribution by socioeconomic and demographic predictors.
- Exhibit professional values that demonstrate diplomacy, commitment to social justice or health equity, or respect for the unique cultures, values, roles or responsibilities, or expertise represented by other professions, communities, or groups working in global health.
- Apply ethical reasoning to the design, implementation or evaluation of global health programs, policies, or practice.
- Describe select causes or consequences of health inequities within or across contexts.
- Apply qualitative or quantitative methods to inform the design or implementation of global health research or practice.
- Apply principles and frameworks of environmental justice and social determinants of health to

environmental health issues.

BS/MPH in Environmental Studies and Environmental Health

The MPH competencies related to this degree are the same as the MPH in Environmental Health competencies.

MPH in Environmental Health and Epidemiology

Upon completion of the MSPH degree, graduates will be able to:

- Explain major environmental risks to human health ranging from the local to global scale.
- Apply the principles of exposure science to characterize environmental exposures.
- Describe how the principles of toxicology can be used to assess health effects of environmental exposure.
- Apply the principles of epidemiology to assess health effects of environmental exposures.
- Explain major policy issues in environmental health.
- Apply principles and frameworks of environmental justice and social determinants of health to environmental health issues.
- Describe distributions of morbidity, mortality, and risk factors in terms of magnitude, time, place, and population.
- Calculate and interpret basic design-specific measures of association and their standard errors.
- Differentiate among the strengths, limitations, and differences and similarities of various study designs.
- Interpret epidemiologic results in a causal framework.
- Formulate an environmental epidemiology research question and study aims.

PhD in Environmental Health Sciences

Upon completion of the PhD degree, graduates will be able to:

- Apply advanced methods for assessing human exposures to environmental agents.
- Explain the actions of environmental exposures on human health via cellular and molecular processes, including risk factors that can modify these actions.
- Apply epidemiologic and risk assessment methods to describe the risks associated with exposure to environmental agents.
- Conduct a novel research project that addresses key challenges in environmental health sciences.

Department of Epidemiology

MPH in Epidemiology

Upon completion of the MPH degree, graduates will be able to:

- Formulate a research question and study aims.
- Describe the impact of racism on epidemiologic practice.
- Differentiate among the strengths, limitations, and differences and similarities of various study designs.
- Calculate and interpret basic design-specific measures of association and their standard errors.
- Differentiate among design-specific sources and types of systematic error.
- Differentiate between the main types of effect modification and the methods of recognizing and accounting for it.
- Describe distributions of morbidity, mortality, and risk factors in terms of magnitude, time, place, and population.
- Utilize statistical software to conduct epidemiological analysis.
- Interpret epidemiologic results in a causal framework.
- Prepare a written report of advanced epidemiologic information.
- Describe the impact of racism on epidemiologic practice.
- Critically evaluate the way that race, a social construct, is considered in peer-reviewed epidemiologic literature.

- Identify important considerations with respect to race and racism when conducting epidemiologic research.

MSPH in Epidemiology

Upon completion of the MSPH degree, graduates will be able to:

- Formulate a research question and study aims.
- Describe the impact of racism on epidemiologic practice.
- Appraise the strengths, limitations, and differences and similarities of various study designs with respect to given research questions.
- Calculate and interpret basic design-specific measures of association and their standard errors.
- Assess impact of different design-specific types of systematic error.
- Differentiate between the main types of effect modification and the methods of recognizing and accounting for it.
- Critically evaluate the way that race, a social construct, is considered in peer-reviewed epidemiologic literature.
- Describe distributions of morbidity, mortality, and risk factors in terms of magnitude, time, place, and population.
- Identify important considerations with respect to race and racism when conducting epidemiologic research.
- Utilize advanced statistical programming in performing epidemiological analysis.
- Critique epidemiologic results in a causal framework.
- Write a manuscript to report the results of an epidemiologic study in a written scientific report that is suitable for submission for publication in a peer-reviewed journal.

MPH in Global Epidemiology

Upon completion of the MPH degree, graduates will be able to:

- Formulate a research question and study aims.
- Describe the impact of racism on epidemiologic practice.
- Differentiate among the strengths, limitations, and differences and similarities of various study designs.
- Calculate and interpret basic design-specific measures of association and their standard errors.
- Differentiate among design-specific sources and types of systematic error.
- Differentiate between the main types of effect modification and the methods of recognizing and accounting for it.
- Critically evaluate the way that race, a social construct, is considered in peer-reviewed epidemiologic literature
- Describe distributions of morbidity, mortality, and risk factors in terms of magnitude, time, place, and population.
- Identify important considerations with respect to race and racism when conducting epidemiologic research
- Utilize statistical software to conduct epidemiological analysis.
- Interpret epidemiologic results in a causal framework.
- Prepare a written report of advanced epidemiological information on a topic relevant to global and/or underserved populations in a written scientific report.
- Use qualitative and quantitative data sources to assess global health outcomes or risk factors, including temporal trends such as past or current patterns, as well as projected future trends, and distribution by socioeconomic or demographic predictors.
- Demonstrate reflexivity or humility regarding power, privilege, culture, or professional paradigms, acknowledging strengths, limitations, biases, or influence.
- Exhibit professional values that demonstrate diplomacy, commitment to social justice, or health equity, or respect for the unique cultures, values, roles or responsibilities, or expertise represented by other professions, communities, or groups working in global health.
- Apply ethical reasoning to the design, implementation, or evaluation of global health programs, policies, or practice.
- Describe select causes or consequences of health inequities within or across contexts.

MSPH in Global Epidemiology

Upon completion of the MSPH degree, graduates will be able to:

- Formulate a research question and study aims.
- Describe the impact of racism on epidemiologic practice.
- Appraise the strengths, limitations, and differences and similarities of various study designs with respect to given research questions.
- Calculate and interpret basic design-specific measures of association and their standard errors.
- Assess impact of different design-specific types of systematic error.
- Differentiate between the main types of effect modification and the methods of recognizing and accounting for it.
- Critically evaluate the way that race, a social construct, is considered in peer-reviewed epidemiologic literature.
- Describe distributions of morbidity, mortality, and risk factors in terms of magnitude, time, place, and population.
- Identify important considerations with respect to race and racism when conducting epidemiologic research.
- Utilize advanced statistical programming in performing epidemiological analysis.
- Critique epidemiologic results in a causal framework.
- Write a manuscript to report the results of an epidemiologic study on a topic relevant to a global and/or underserved population in a written scientific report that is suitable for submission for publication in a peer reviewed journal.
- Use qualitative and quantitative data sources to assess global health outcomes or risk factors, including temporal trends such as past or current patterns, as well as projected future trends, and distribution by socioeconomic or demographic predictors.
- Demonstrate reflexivity or humility regarding power, privilege, culture, or professional paradigms, acknowledging strengths, limitations, biases, or influence.
- Exhibit professional values that demonstrate diplomacy, commitment to social justice, or health equity, or respect for the unique cultures, values, roles or responsibilities, or expertise represented by other professions, communities, or groups working in global health.
- Apply ethical reasoning to the design, implementation, or evaluation of global health programs, policies, or practice.
- Describe select causes or consequences of health inequities within or across contexts.

PhD in Epidemiology

Upon completion of the PhD degree, graduates will be able to:

- Evaluate epidemiologic research.
- Formulate an epidemiologic research question that addresses a gap in the literature.
- Develop an epidemiologic research study addressing a gap in the literature.
- Conduct independent research using epidemiologic methods.
- Communicate the results of epidemiologic research to a scientific audience.

Department of Health Policy and Management

MPH in Health Policy

Upon completion of the MPH degree, graduates will be able to:

- Describe how the organization and financing of health services influence access, quality, and costs.
- Apply management principles to planning, organizing, leading, and controlling health care enterprises.
- Apply skills in financial accounting to healthcare administration decisions.
- Apply principles of health economics in analyzing the behavior of health care market stakeholders.
- Conduct economic evaluations of health care services.
- Utilize public finance theory to assess the efficiency and equity of proposals to reform the financing and delivery of health care services.
- Incorporate legal principles of public health law in the assessment of health policies.

- Prepare health policy briefings suitable for the range of policy stakeholders involved with the formulation and implementation of a health policy under consideration at the national, state, and local level.
- Employ quantitative analytic tools to assess health care needs and services in population- based research.
- Apply the tools of policy analysis to make quantitative predictions about the impact of policy changes.
- Communicate evidence-based alternatives for public health policies, both in writing and through oral presentation.

MPH in Health Care Management

Upon completion of the MPH degree, graduates will be able to:

- Describe how the organization and financing of health services influence access, quality, and cost.
- Apply management principles to planning, organizing, leading, and controlling health care enterprises.
- Apply skills in financial accounting to health care administration decisions.
- Apply principles of health economics in analyzing the behavior of health care market stakeholders.
- Apply analytic tools and theories to guide the management of financial assets in health care organizations.
- Incorporate human resources management principles in administering health care organizations.
- Apply marketing concepts in the design of health services.
- Incorporate legal principles in the administration and/or management of health care services.
- Develop a proposal to reflect different aspects of supervisory-level general management responsibilities in a health services delivery organization.
- Execute both an operations management and a strategic management analysis in the role of a health services consultant.

MSPH in Health Services Research

Upon completion of the MSPH degree, graduates will be able to:

- Describe how the organization and financing of health services influence access, quality, and cost.
- Apply principles of health economics in analyzing the behavior of health care market stakeholders.
- Conduct economic evaluations of health services.
- Utilize public finance theory to assess the efficiency and equity of proposals to reform the financing and delivery of health care services.
- Conceptualize a theoretically grounded original research project.
- Analyze an original research question using quantitative methods.
- Interpret findings from an original research investigation, identifying strengths and limitations of the analytic approach.
- Conduct a scientific presentation and communicate key steps of an original research investigation.
- Function as a team collaborator in the design and conduct of a health services research investigation.

PhD in Health Services Research and Health Policy

Upon completion of the PhD degree, graduates will be able to:

- Describe major problems in health services and policy that are currently the subject of empirical investigations.
- Apply economic or political science concepts, theories, and methods to the framing and analysis of research questions in health services and policy.
- Apply advanced economics or political science methods to relevant research questions in health services and policy.
- Communicate concepts and methods of health services and health policy research to students,

professionals, and other stakeholders.

- Conduct a health services or health policy research investigation suitable for peer-reviewed publication as an independent researcher.
- Function as an interdisciplinary team collaborator in the design and conducting of a health services or health policy research investigation.

Hubert Department of Global Health

MPH in Global Health

- Apply quantitative or qualitative methods to inform the design or implementation of global health research or practice.
- Critique the application of data and metrics commonly used in global health for example, fertility, mortality, morbidity, disability, equity.
- Visualize or present data in ways that are accurate, accessible, and appropriate for different stakeholders.
- Describe the use of qualitative or quantitative methods in developing recommendations or priority setting for research or practice.
- Critique the design, administration, delivery, and performance of health systems.
- Demonstrate ability to integrate evidence or appropriate theory to ensure program alignment with priorities at the local, regional, national or international level.
- Describe how to conduct relevant operational, implementation, or community-based research to inform the design, adaptation, implementation or evaluation of programs or interventions.
- Use evidence and theory to design or adapt interventions, projects, or programs that are appropriate for local context.
- Develop proposals to secure donor support.
- Develop theory-based and contextually appropriate monitoring, evaluation and learning plans.
- Apply contextually specific management skills including but not limited to the identification of appropriate project, financial or team management tools.
- Identify program and financial management practices and how they differ across public, private and nonprofit sectors.
- Identify strategies to adapt, sustain or scale evidence-based interventions, programs, or policies across diverse settings.
- Communicate global health research, recommendations or policies effectively and transparently across a range of audiences and contexts, tailoring information, messaging, channels or approaches to their needs and preferences, including but not limited to written, oral and visual formats.
- Advocate for policies or programs to improve global health through goal-oriented situational analysis, strategy formulation, coalition-building, community organizing, or sustained action.
- Demonstrate reflexivity and humility regarding one's own power, privilege, culture and professional paradigms, acknowledging one's own limitations, biases, and influence.
- Exhibit professional values that demonstrate diplomacy, commitment to social justice, health equity, the dismantling of oppressive systems of power and respect for the unique cultures, values, roles/responsibilities and expertise represented by diverse professions, communities and groups working in global health.
- Describe leadership practices or styles that foster local ownership, joint decision-making, mutual learning and benefit, and equitable representation of stakeholders in partnerships, especially across a range of power and privilege differentials.
- Identify professional habits that enable self-guided, ongoing learning and leadership development in global health.
- Analyze the impact of sociocultural, political, economic, environmental, religious, or historical factors on health or health behavior at multiple levels of a socio-ecologic framework in low-resource settings.
- Describe factors that influence equitable access to resources, including quality health services, between or within countries.
- Critique the systems of oppression and discrimination that exist in a given context and their

influence on health or health behavior.

- Identify strategies to challenge systems oppression and discrimination (e.g., global racism, gender bias, homophobia) to improve health outcomes.
- Critique global health and development policies, programs, or research with respect to impacts on health equity, human rights, and social justice.
- Contrast the causes or consequences of poverty or inequity across diverse global contexts.
- Apply key concepts in global health ethics (e.g., equality, equity, social justice) to global health practice and research.
- Apply sound ethical reasoning to the analysis of ethical challenges in global health, through the application of key principles, theories and conceptual analysis
- Anticipate the ways that global health programs (research and/or implementation) may affect the interests of a wide range of stakeholders (i.e., harm them or benefit them) and how these effects can be mitigated or amplified, respectively.

PhD in Global Health and Development

Upon completion of the PhD degree, graduates will be able to:

- Formulate a research question, a scholarly project, and evaluate global health and development policies and programs.
- Conduct independent research, design and implement interventions, and evaluate them using qualitative and/or quantitative methods as appropriate.
- Communicate the results, findings or new interpretations of scholarly work.
- Communicate current knowledge about key global health issues and challenges to students and/or the public.
- Evaluate scholarly work, programs and interventions, and/or work conducted by peers.

PhD in Nutrition and Health Sciences

Upon completion of the PhD degree, graduates will be able to:

- Apply the fundamentals of nutrition science including methods of nutrition assessment.
- Evaluate scholarly work, programs, and interventions including work completed by peers in nutrition health sciences.
- Conduct independent research using appropriate research design and methods in the field of nutrition.
- Communicate current knowledge about key concepts in human nutrition science to students and peers.
- Develop the skills needed to teach students about nutritional science and health.

Executive MPH Program

MPH in Applied Epidemiology

Upon completion of the MPH degree, graduates will be able to:

- Describe distributions of morbidity, mortality and risk factors.
- Apply basic principles of public health surveillance in the practice of public health.
- Identify key sources of data for epidemiologic purposes.
- Formulate a research question and study aims.
- Differentiate among the strengths and limitations of various study designs.
- Calculate and interpret basic design-specific measures of association and their standard errors.
- Conduct basic epidemiologic research using multivariable models (e.g., linear, logistic, Cox, Poisson regression).
- Interpret individual published epidemiologic studies in which the major epidemiologic study designs are used.
- Utilize statistical programming packages in preparing scientific reports.
- Communicate epidemiologic information in a written scientific report.
- Recognize potential ethical issues in epidemiologic studies.

MPH in Prevention Science

Upon completion of the MPH degree, graduates will be able to:

- Apply behavioral theories across systems levels of the socio-ecological framework in addressing public health issues.
- Assess the effects of public health interventions or programs.
- Develop materials to address real-world public health problems.
- Apply educational theory or instructional design models to the development of workforce training.
- Evaluate ethical considerations for public health interventions.
- Incorporate the use of public health informatics in professional practice.
- Incorporate research design or program planning skills in the development of grant proposals.

EDUCATIONAL RESOURCES

ADMISSION TO THE MPH, MSPH, AND EXECUTIVE MPH PROGRAMS

Degree-Seeking

Departments admit degree-seeking applicants only starting in the fall semester (August). Under special circumstances, applicants may be considered in other semesters. The sequence of courses is designed for students entering in the fall.

The priority deadline for the receipt of the completed and verified application and all required supporting documents from all applicants for fall semester is January 5 or the next business day, should it fall on a holiday or weekend. The Rollins School of Public Health participates in a centralized application service called SOPHAS (Schools of Public Health Application Service). Applicants can access the admissions application through <https://www.sph.emory.edu/admissions/index.html>. All application materials should be sent directly to SOPHAS.

A complete set of application documents includes the following: the online application (includes personal statement and work/research/volunteer history), one transcript from each postsecondary institution attended (international transcripts must be evaluated by World Education Services [WES]), and completed reference letters from at least two individuals. The GRE is not required for admission to most of our academic programs and will not be considered as part of the application for admission. The department of Biostatistics offers a GRE optional policy. Students applying to BIOS can submit a GRE score for consideration. The GRE score must be submitted at the same time as the application for admission.

Admission is competitive; therefore, applications should be submitted well in advance of the deadline. Applications received or completed after the deadline will be considered on a space available basis. Applicants whose files are completed by the January 5 deadline are typically notified of their admission decision within eight weeks.

For additional information regarding the application process, please refer to the Rollins admission website, <https://sph.emory.edu/admissions/master/index.html>.

Admission Requirements

Minimum requirements for admission include satisfactory completion of a four-year baccalaureate degree or its equivalent and a strong interest in a career in public health. Work or academic experience in a health-related field is highly desirable, but not required for admission.

A minimum GPA of 3.0 is preferred. It is important to note that all submitted components are evaluated in the context of the overall application and other supporting documents.

The program encourages applications from international students who demonstrate proficiency in speaking, reading, writing, and understanding the English language. All applicants whose native language is not English are required to take the Test of English as a Foreign Language (TOEFL) and to earn a minimum score of 550 (213 computer-based test, 80 Internet-based test). Such applicants should schedule and take the TOEFL as one of the first steps in the admission process. The International English Language Testing System (IELTS) is also acceptable. A minimum score of 6 is preferred. Applicants who are permanent residents of the U.S. or who have completed a degree from a U.S. institution are not required to submit TOEFL scores.

Applications to the MPH and MSPH degree programs are reviewed and applicants are admitted by a specific department selected by the applicant. Departments may have additional minimum admission requirements to those listed here. Applicants for the MPH or MSPH degree program should review the individual department's admission selection criteria in this catalog and comply with any additional requirements.

The Executive MPH (EMPH) Program requires a minimum of three years professional experience in a field related to public health. The priority deadline for the EMPH program is February 15. Admission requirements for the EMPH vary by track. The GRE is not required for admission to the EMPH program. Please visit the Rollins website at <https://sph.emory.edu/admissions/> for specific information.

Special Standing

Non-degree seeking students may register for certain RSPH courses. Individuals interested in taking courses as special standing students must first complete the special-standing application and submit official transcripts that show bachelor's degree conferral in English. International applicants should submit TOEFL scores. The special standing application deadline is typically one month prior to the start of the semester of anticipated enrollment. Students who are interested in enrollment for the second half semester courses or Fall/Spring Break courses should meet this deadline as well.

Enrollment of special-standing students is contingent on the availability of space and department and/or program approval. Students in special standing are ineligible for federal financial aid or any funding from RSPH. Students in special standing may complete the degree- seeking application process and will be considered on the same basis as other applicants.

Admission offers to students in special standing does not extend to acceptance in a degree- seeking program.

If admitted to a degree program, students may apply up to nine semester hours of special- standing coursework toward the MPH or MSPH degree. Additional information and application forms may be found at <https://sph.emory.edu/academics/special-standing-students/index.html>. The tuition for special-standing students is \$2,370 per credit, plus fees.

Transient Status

Students who are enrolled at another academic institution but wish to earn graduate credit at Emory and transfer the credit to that university may take coursework at Rollins. Such students should complete a transient status application that certifies good standing in another program. The degree-granting institution must also authorize the enrollment in selected courses. Should a transient student wish to earn a degree from Rollins School of Public Health, they must apply through SOPHAS. No more than six credit hours taken in transient status may count towards the RSPH degree.

Transcripts and letters of recommendation are not required. Transient applications must be completed no later than thirty days prior to the semester selected for enrollment. Enrollment of transient students in courses is contingent upon the availability of space and the permission of the department(s) and/or program. The transient applicant must apply for each semester of enrollment.

FINANCIAL INFORMATION

Financial Aid

Financial aid application and loan information is available through the Emory University Office of Financial Aid. Students may reach this office at gradfinaid@emory.edu or 404.727.6039. Loan options include the unsubsidized Stafford and Graduate PLUS Loans. Eligibility for loans and some funding opportunities can vary based on citizenship status. Information regarding student funding opportunities can be found on the RSPH website at <https://sph.emory.edu/admissions/tuition/ways-to-pay/index.html>. Additionally, the public health section of the Office of Financial Aid website is another resource for information about managing your financial aid: studentaid.emory.edu/apply/pubh/. Federal education guidelines and RSPH enrollment policy specify that students receiving institutional funding and/or federal aid maintain [satisfactory academic progress](#). Additionally, students must maintain both [satisfactory academic progress](#) and [good academic standing](#) as detailed by the Rollins School of Public Health for all semesters of their academic program plan.

EDUCATIONAL RESOURCES

Rollins Earn and Learn Award

The Rollins Earn and Learn (REAL) Award provides funding for master's-level public health students to support their academic interests with an applied public health experience. Student work opportunities are an integral part of the Rollins experience. Each year, more than 500 students find public health work opportunities with agencies such as the Centers for Disease Control and Prevention, CARE, American Cancer Society, The Carter Center, Children's Healthcare of Atlanta, and other local agencies while pursuing advanced studies. Additionally, many students find opportunities working on faculty research grants within the Rollins School of Public Health and throughout the Emory University/Emory Healthcare systems. These experiences may fulfill public health practice requirements (also referred to as Applied Practice Experiences) and may lead to thesis/capstone opportunities, referred to as Integrative Learning Experiences.

Eligibility for the award is based on the submission date of the FAFSA and availability of funds. Funds are earned and paid directly to students through biweekly paychecks. The amount of the award is the maximum the student may earn for the academic year. Students typically work 10–20 hours per week. The wage for graduate students is \$15.00/hour. Students may apply for positions through Emory's online system, Rollins Career Connection. Access to Rollins Career Connection will be provided to incoming students in early August, followed by a public health job fair after orientation.

Cost of Living

Information regarding university and off-campus housing may be obtained from the Office of Residential Services (housing.emory.edu). Additionally, the Cost of Living Guide has been developed as a resource that can offer suggestions and additional information about cost savings and funding ([Funding Website](#)).

Tuition and Fees 2023-2024 Academic Year

Tuition and fees are subject to annual increases:

Degree Program	Length of Degree Program	Full-Time Semester Rate**
MPH (excludes EMPH)	4 semesters	\$20,000
MPH	3 semesters	\$26,800
MSPH	4 semesters	\$23,200
Dual Degree and 4+ 1 Programs	2 semesters	\$31,000
Accelerated MPH for External Graduate Professional programs	2 semesters	\$31,000
Executive MPH	6 semesters (3 course schedule) 9 semesters	\$13,300 \$1,960/credit hour
Part-time MPH/MSPH Non-degree rate Graduate in Residence	(5+ semesters)	\$2,370/credit hour \$2,370/credit hour \$1,100/semester

Fees: All students will be charged the following fees per semester:

Administrative fee (first semester only)- \$350; Transcript fee (first semester only)- \$70; Activity fee-\$100; Recreation and Athletic fee- \$158; Health and Wellness fee- \$103

**All full-time degree-seeking students (with the exception of the Executive MPH program) are expected to be registered for at least nine credits per semester and will be charged the semester rate.

All students in the traditional (4 semester) accelerated (3 semester) and Dual, 4+1, Accelerated MPH for External Graduate/Professional Students (2 semester) degree program plans are responsible for the total tuition of their program (semesters x semester rate).

For example, students enrolled in the traditional MPH program (4 semesters) must complete 4 full-time semesters to meet the financial obligation of the degree at the four semester tuition rate (4 semesters x 20,000). Students enrolled in the accelerated MPH program (3 semesters) must complete 3 full-time semesters charged at the three semester tuition rate to meet their financial obligation. Students enrolled in the dual degree, 4+1, and Accelerated MPH for External Graduate/Professional School students (2 semesters) must complete 2 full-time semesters at the two semester tuition rate.

Students are expected to distribute their coursework throughout the appropriate number of semesters to maintain full-time status and meet the required financial obligation. During summer semesters, the hourly rate applies when students take additional coursework above and beyond the 3 or 4 semester program plans and enroll in 8 credit hours or less. A student is able to take additional credits at Emory University at no additional cost while they are attending traditional semesters within their degree plan. For Traditional MPH and MSPH students these semesters are Fall and Spring. For Executive MPH students these semesters are Fall, Spring, and Summer.

Non-RSPH courses require instructor permission for enrollment. Students should check with their ADAP to determine whether these courses count towards the completion of their degree requirements. It is the student's responsibility to know the grading system of the school in which they are enrolling. If a student extends their studies beyond the determined degree plan time (i.e. a 5th semester to complete a 4-semester degree plan), tuition will be charged at the prevailing individual credit rate up to 9 hours. Nine or more hours will be assessed at the prevailing flat-tuition rate. If a student changes their degree plan from MSPH to MPH or from the three-semester accelerated plan to the four-semester traditional plan, the tuition charge will be the rate of current enrollment with no accommodation for previous tuition payments.

Tuition Adjustment Policy

A student may completely withdraw from Emory University with permission from the appropriate school dean. Unofficial withdrawal results in 100 percent forfeiture of tuition. When officially withdrawing, the student may be eligible for a tuition refund upon the date of withdrawal. Refunds are only processed for complete withdrawal. Financial aid awards that pay part or all of the student charges are prorated accordingly. Refunds for federal (Title IV) aid recipients will be prorated in accordance with federal regulations. No refunds are issued until all semester charges are paid in full. See the Deadlines page on Student Accounts and Billing Office webpage (<https://studentaccounts.emory.edu/withdrawal-adjustments.aspx>) for the Emory Tuition Adjustment schedule.

Department of Veterans Affairs Pending Payment Rights

In compliance with Title 38 United States Code Section 3679(e) Emory University adheres to the following provisions for any student(s) that are/is considered "a covered individual" who are using Chapter 33 or Chapter 31 Vocational Rehabilitation and Employment, U.S Department of Veterans Affairs benefits:

The University will not:

1. Prevent the student's enrollment in classes
2. Assess a penalty fee (late fees, administrative fees) due to delayed disbursements from the Department of Veterans Affairs under Chapter 31 or Chapter 33
3. Deny access to any school resources, classes, libraries, or other institutional facilities that are available to other paid students
4. Require the student to borrow additional funds for the length of time these provisions are applicable

EDUCATIONAL RESOURCES

The university will require students to provide the following documents to be considered a “covered individual”:

- An official “Certificate of Eligibility”, or “Statement of Benefits” from the VA website or ebenefits [Chapter 33] or a VAF 28-1905 [Chapter 31] on or before the first day of class for the semester.
- A completed Veterans Enrollment Certification Student Data Form (http://www.registrar.emory.edu/_includes/documents/sections/recordstranscripts/VeteransEnrollmentDataInformation.pdf)
- Any additional documentation required to ensure proper certification of benefits

Having met all requirements, the Department of Veterans Affairs will provide the university with payment ending on the earlier of either:

- The date on which payment from VA is made to the institution,
- Ninety (90) days after the date the institution certified tuition and fees

Any difference in the amount of the student’s financial obligation to the university and the amount the student is eligible to receive from the Department of Veterans Affairs may incur an additional fee, or payment/payment arrangement may be required to cover the difference.

Please note that all eligibility documents must be submitted to the School Certifying Official in the Office of the University Registrar. Instructions for submission of this paperwork can be found at the website below.

<http://www.registrar.emory.edu/registration/veterans-education-benefits.html>

Honors and Awards

Chestnut Award

This annual award recognizes a member of Emory University’s LGBT community. Recipients are selected based on outstanding services to the LGBT community, contributions made through a special initiative benefiting LGBT people, demonstrated leadership in an organization advising equity and awareness of the LGBT community, and/or community activism and advocacy with the aim of fostering understanding and support for the LGBT community.

Delta Omega

Delta Omega is the national honorary society for public health professionals. Founded in 1924, it now has chapters at most schools of public health. Each year the chapter elects members from the student body, faculty, and alumni based on scholarship (among students), teaching, research (among faculty), and community service (among alumni).

Diversity, Equity, & Inclusion (DEI) Leadership Award

Awarded to any Rollins graduate student, in good standing, who has demonstrated an outstanding commitment to identifying and addressing inequities, creating avenues of access and/or advancing diversity and inclusion within and/or beyond Emory through their research, service and/or leadership activities. This individual should exhibit the highest level of intentionality in striving for equity and fostering a culture of inclusion and belonging that respects the multiple intersections of individual identities within our student body.

Emory Women’s Club Scholarship

Established in 1998, the Emory Women’s Club Scholarship provides support to a rising second year student who has contributed to women’s health, whose career goals align to women’s health, and who has financial need.

Graduate Student Leader of the Year

This honor is bestowed upon a graduate or professional student who holds a leadership position for a chartered or predominately departmental graduate organization. Awardees demonstrate the highest level of care and concern for proactive, positive contributions to the academic, personal or

professional lives of their graduate peers, ultimately aiding in amplifying and unifying the Emory graduate community.

Heart of Emory Award

This highest honor award is bestowed up to six individuals, both for the undergraduate and graduate community who truly represent the best of what Emory has been and will be. Individuals chosen for this award are active, passionate contributors to the Emory community; engage individuals who have created a legacy through connection, creativity and a commitment to social justice.

Rollins LEAD Award

The Rollins LEAD (Leadership, Engagement, Action, and Diversity) Award recognizes students who are actively involved in service, student well-being, and leadership and professional development programs offered by RSPH Student Engagement. Throughout their time at Rollins, students can accrue LEAD Points to meet participation thresholds associated with LEAD award levels. At graduation, students wear the following sashes associated with the following LEAD levels: Blue, White, and Gold.

James W. Alley Award

This award, in memory of James W. Alley, state health officer for Georgia from 1973 until 1990, recognizes the graduating MPH student who, in the eyes of the faculty and students, has provided the greatest service to disadvantaged populations during their career.

Livingston Scholars Fund

Established by the Livingston Foundation, Inc., the Livingston Scholars Fund recognizes the outstanding achievements of doctoral students in each of the Rollins School of Public Health doctoral programs. This award can be applied toward the cost of dissertation research, the purchase of a computer, books, journal subscriptions, travel to professional meetings, research or for professional association dues.

Eugene J. Gangarosa Award

This award, named after the former director of public health at Emory University, is presented to the graduating student who has demonstrated a creative approach to solving public health problems and who shows promise for outstanding service in the international arena.

Thomas F. Sellers Jr. Award

This award, named after the former chair of community health at Emory University, is presented to the Rollins faculty member who exemplifies the ideals of public health and who serves as a role model and mentor to their colleagues. The award is given to an individual who, like the man for whom it is named, represents the best qualities of collegiality.

Charles C. Shepard Award

This award, in memory of an outstanding scientist at the U.S. Centers for Disease Control and Prevention, is presented to the graduating student who is deemed by the faculty to have prepared the most scholarly thesis.

Rollins Student Government Association Faculty Member of the Year

This award, selected by students, honors an outstanding faculty member who demonstrates leadership, a genuine concern for students, and a sense of academic excellence. It is awarded annually by the Rollins Student Government Association (RSGA).

Rollins Student Government Association Staff Member of the Year

This award, selected by students, honors an outstanding staff member who demonstrates leadership and a genuine concern for students. It is awarded annually by RSGA.

EDUCATIONAL RESOURCES

Student Organizations

The Rollins School of Public Health is made up of myriad groups and actively engaged leaders. The following pages list the current organizations chartered by our student government association, but new student organizations may form. All student organizations are advised by the Student Engagement Team in the Office of Student Affairs and supported by Rollins. Official RSPH student organizations are open to all RSPH students and their allies. Affinity groups offer supportive spaces for students who share an identity, such as a common race or heritage, to discuss mutual concerns, advocate for the interest of these groups and help each other to navigate RSPH and Emory University. The following groups are available either in the School of Public Health specifically or at Emory University. All affinity groups are open to all community members who share the groups' missions of supporting the success of the group's members.

Rollins Student Government Association (RSGA)

RSGA is the governing student assembly of the Rollins School of Public Health. The purpose of RSGA is to advocate for students and enrich the experience of their time at Rollins. RSGA addresses students' needs and concerns regarding school facilities, current administration, academia, extracurricular activities, and more. RSGA presides over department student representatives of Rollins and the student organizations. The annual budget of the RSGA and Rollins student organizations are allocated from the student activity fees paid by students. Annual elections for the executive board and departmental representative positions are held each October or November.

RSGA also includes two student initiatives: the RSGA Diversity, Equity, and Inclusion Committee and the Rollins International Student Association (RISA).

Asian, Pacific, Islander, Desi Association (APIDA)

APIDA is an RSPH student organization with a mission to support the academic, professional, and personal development of Asian, Pacific Islander, and Desi (APID) students in the field of Public Health. APIDA's purpose is to provide opportunities for students to discuss historical and current issues affecting APID communities both globally and locally; network and social with other current, past, and prospective APID Public Health graduate students and faculty; and provide an APID community within Rollins.

Association of Black Public Health Students (ABPHS)

ABPHS is designed to enhance the experience of minority students attending the Rollins School of Public Health, to encourage community engagement, and to raise consciousness of health issues concerning Black communities in the U.S. and abroad. ABPHS strives to augment the graduate experience by providing opportunities for academic support, professional growth, community service, and social bonding within the Rollins community and greater Atlanta metro area.

Emory Disability, Illness, and Divergent Collaborative (EDIDC)

Emory's Disability, Illness, and Divergent Collaborative is an all-access space with the purpose of raising disability awareness and accessibility for students, establishing a space to share stories, advocating for disability justice, and dismantling ableism. EDIDC offers a space to build a community through events, peer mentoring, leadership opportunities, and assistance with Department of Accessibility paperwork, insurance process, coursework, and overall navigating higher education as a disabled and neurodivergent student.

Emory Global Health Organization (EGHO)

The goal of EGHO is to facilitate engagement in global health outside the classroom. To accomplish this, EGHO works through several different committees, each of which focuses on an important aspect of student interests. Through these communities, EGHO works to engage in global health issues through service and advocacy; foster global health awareness and encourage the growth of a global perspective; increase resources and opportunities available to all students with an interest in global health; and build connections with each other and with professionals in the field.

Emory Mental Health Association (EMHA)

The mission of EMHA is to foster a community of positive mental health, awareness of negativity,

and stigma reduction. EMHA works to communicate this mission to Emory students and the greater Atlanta community with a shared goal of changing the conversation on mental health to one of acceptance and support. EMHA hosts several events throughout the year bringing mental health professionals and Emory students together to educate the community and advocate for current mental health topics.

Emory Reproductive Health Association (ERHA)

ERHA promotes reproductive health and rights awareness through community outreach, research and fund-raising locally and globally. The purpose of ERHA is to increase awareness of current local and global reproductive health issues through educational outreach through guest speakers, films, and distribution of information; be actively involved in the Emory and Atlanta communities by volunteering with local organizations focused on disparities in reproductive health; and to fundraise for reproductive causes, more specifically the Global Elimination of Maternal Mortality Due to Abortion (GEMMA) fund established by Dr. Roger Rochat.

Emory Students for One Health (ESOH)

One Health is an approach that recognizes that the health of people is connected to the health of animals and the environment. ESOH provides learning and professional development opportunities that focus on collaborative, multisectoral, and transdisciplinary approaches in local and global communities. Additionally, it is a multidisciplinary organization that seeks to achieve optimal health outcomes while recognizing the interconnection between people, animals, plants, and their shared environment.

Georgia Public Health Association (GPHA)

GPHA, a nonprofit corporation organized for the purpose of promoting the public and personal health of Georgia's citizens, is the largest public health organization in the Southeast. It provides many opportunities for networking with public health professionals, attending continuing education seminars, and advocating for public health issues concerning Georgians.

Humanitarian Emergency Response Team (HERT)

HERT aims to provide students with an opportunity to collaborate with public health professionals and contribute to research projects related to complex humanitarian emergencies. Members are selected through a competitive application process.

La Alianza Latinx (LAL)

La Alianza Latinx is a student-led organization interested in issues affecting the Latinx community at the Rollins School of Public Health, in the metro Atlanta area, throughout the United States, and internationally. LAL strives to strengthen and build a Latinx community at the Rollins School of Public Health by creating a space that enables students to excel academically, professionally, and socially. LAL is committed to building community, supporting mentorship, uplifting educational advancement, and promoting advocacy for and improvement of Latinx health, Latinx students, and undocumented students at Emory University.

Queer/Trans Collaborative at Rollins (QTC)

QTC supports and advances the interests of LGBTQ+ (lesbian, gay, bisexual, transgender, queer, and other fluid identity) individuals connected to the Rollins School of Public Health. QTC is committed to increasing visibility, academic discourse, networking opportunities, future leaders, and solidarity among LGBTQ+ persons.

Rollins African Diaspora Student Association (RADSA)

RADSA seeks to build a community of students from the African diaspora studying and working in public health. This student organization serves as a space for Rollins students in the African diaspora to network, discuss historical and current issues in African communities, and advocate for their interests.

EDUCATIONAL RESOURCES

Rollins Environmental Health Action Committee (REHAC)

REHAC believes that the environment influences our health and as health advocates we must also promote a safe and sustainable community. It seeks to improve and protect our living and working environment through locally focused and collaborative education, action and reaction.

Rollins mHealth Collaboration (RmC)

The RmC provides student and faculty a forum to explore the global mobile health phenomenon while building practical skills in mobile tech systems design, implementation, scaling and evaluation. Their two priority areas include: Introducing students and faculty to the field of mHealth and educating students and faculty in mHealth systems design, implementation, scaling, and evaluation.

Rollins Peace Corps Community (RPCC)

RPCC is an organization where Returned Peace Corps Volunteers and other graduate students at Rollins network with their fellow colleagues.

Student Outbreak and Response Team (SORT)

SORT is a collaborative effort between the DeKalb County Board of Health and the Rollins School of Public Health's Center for Public Health Preparedness & Research, whose mission is "To promote future public health leadership by providing students with hands-on experiences that contribute to improved community health." SORT provides current public health students with the opportunity to apply public health theory in practical settings. Students are chosen annually at the start of the fall semester via a competitive process to participate in this program.

Society for Public Health in Medicine (SPHM)

SPHM is a student organization dedicated to meeting the growing need for peer support and faculty guidance as current Rollins students look to continue their academic journey in MD and DO programs following the completion of their MPH/MSPH degree.

WASH Action Research & Practice (WARP)

Students in WARP are committed to breaking the cycle of poverty and disease in developing countries through increasing access to safe drinking water, adequate sanitation, and appropriate hygiene. Students in WARP collaborate with faculty members to host events that feature WASH researchers in the Atlanta-area and increase awareness of WASH-related diseases.

Grading System

The symbols A, A-, B+, B, B-, C, and S (satisfactory) indicate credit, and F and U (unsatisfactory) indicate failure and no credit. The symbol W indicates withdrawal without penalty, WF indicates withdrawal while failing, and WU indicates unsatisfactory withdrawal. No course credit will be awarded for grades of F, U, W, WF, or WU. When a course, seminar, or research activity is scheduled to last for more than one semester, the notation IP (in progress) will be made at the end of the semester, and will remain until the final grade is awarded.

Quality Points

For each semester hour of credit, quality points are computed as follows:

A = 4.0
 A- = 3.7
 B+ = 3.3
 B = 3.0
 B- = 2.7
 C = 2.0
 F = 0
 WF = 0

While RSPH requires students to earn no less than a C or S Grade (B- or higher is S) to meet degree requirements, academic programs may have more stringent requirements. The grade of S carries academic credit but no quality points; U carries neither academic credit nor quality points. No more than six credit hours may be taken towards the degree under the S/U basis. The grades of W, S, and U are not used in computing a student's grade point average (GPA). The grade of WF is counted as an F in computing a student's GPA.

RSPH does not have a standard grading system across all courses. Students must review the course syllabus for grades assigned based on assessment.

Partial Withdrawal

Students who wish to withdraw from one or more, but not all, courses for which they are enrolled must secure permission from the instructor. Students withdrawing from one or more courses will receive the instructor's mark of withdrawal (W, WF, or WU). A grade of WF or WU may be awarded if the student is failing the course after 75% or more of the graded coursework is past due. Students who withdraw prior to 75% or more of the required coursework may NOT receive a WF or WU. Students should submit the completed and signed partial withdrawal form to their ADAP to be processed by RSPH Enrollment Services. The Partial Withdrawal Form for may be found online at <http://www.sph.emory.edu/rollins-life/enrollment-services/webforms/index.html>. Students receiving permission for a partial withdrawal will not receive a tuition refund. The last day a student may withdraw from a course is the last day of class in a particular session.

Incompletes (I) and In Progress (IP)

Two tentative notations may be given within the grading structure. When a course, seminar, or research activity is intended to last more than one semester, the notation IP (in progress) is made at the end of the grading period until the final grade is given. The **In Progress** notation is reserved for Integrative Learning Experiences and/or the Applied Practice Experience.

An Incomplete (I) is issued when a student does not complete assigned coursework during the prescribed period and 75% or more of graded coursework is complete. There are sometimes unforeseen circumstances at the end of the semester that result in the failure to complete the final assignment, project, or final exams such as illness or a family emergency. Upon the determination that an Incomplete will be given, the faculty member and the student should meet and agree on what needs to be done to meet the requirements of the course and the length of time in which the assignments must be completed.

ACADEMIC POLICIES

The student and instructor should document the agreement of remaining requirements and timeline via the [Resolution of Incomplete Work Form](#). This completed form should be submitted to Enrollment Services (rsphenrollmentservices@emory.edu) and the assistant/associate director of academic programs (ADAP). If the work is not completed within the time allowed by the instructor, which is a maximum of one traditional academic semester (fall and spring), a final grade of IF will be given, and the student may be required to repeat the course. A student having two or more incompletes will not be permitted to register for additional courses without special permission from the Executive Associate Dean for Academic Affairs.

If a student notifies the faculty member that they are unable to complete course requirements by the deadlines stated in the syllabus and less than 75% of graded work has been submitted the student should be advised that they may **withdraw** from the course. An Incomplete should not be given in such an instance. The student must complete the course withdrawal form and have the instructor sign the form and indicate if the student should receive a W (withdraw passing) or a WF (withdraw failing). The student must turn the form into the departmental ADAP.

Satisfactory/Unsatisfactory (S/U) Grading

Students may register for elective courses using a satisfactory/unsatisfactory (S/U) grading basis rather than a letter grade grading basis with the permission of the course instructor. The grade of S indicates at least passing coursework (B-). All PUBH courses are graded S/U while all core courses must be taken for a letter grade. No more than six credit hours may be taken under the S/U grading basis over the course of a student's time enrolled in RSPH, not including credits for which the only grading basis is S/U.

Grade Appeal Procedure

In keeping with the principles of academic freedom, responsibility for evaluation of a student's work rests with the course instructor. The grade appeal process is designed to ensure that the grading system is applied fairly to all individuals in the class.

When students believe that their work merits a different grade than that assigned by the course instructor, they should first contact their instructor as soon as possible, not to exceed one month after the grade is posted in OPUS. The instructor and student should discuss the grade.

If, following a discussion with the instructor, students believe their work was not fairly assessed, they may submit an appeal in writing within two weeks (and with any documents at issue) to the department ADAP in which the course was offered. This material will be reviewed in a timely way by the department chair in consultation with the course instructor.

Should students believe the department review to be unfair, they may appeal the decision in writing and within two weeks, to the Executive Associate Dean for Educational Affairs, who may consult the Academic Standards Committee. The student will be notified of the review outcome by the Executive Associate Dean for Educational Affairs.

Contact: ADAP in department course is offered then Executive Associate Dean for Educational Affairs

Variable Credit

Some designated courses, such as thesis, special study project, and directed study, are taken on a variable credit (VC) basis. Students should discuss with their advisers the number of hours for which to register. Other courses available for variable credit will be indicated on the schedule of courses.

Repeating Courses

A course with the letter R after the course number indicates a course that has varying topics and may be repeated for credit.

Grade Point Average and Academic Probation

Students are required to maintain an overall GPA of 2.7 for graduation. Students whose cumulative GPA falls below 2.7 after having attempted at least nine (9) credits in the traditional program, or six credits if in the Executive MPH program, will be placed on academic probation. Students on probation must raise their cumulative GPA to 2.7 within the next nine (9) attempted credits of enrollment for students in the traditional program or within the next six (6) attempted credits for students enrolled in the Executive MPH programs. Failure to do so will result in exclusion from the program. Course withdrawals with a grade or W do NOT count towards attempted credit hours for the purpose of Rollins School of Public Health academic probation. Courses where a WF (withdrawal fail) is posted count towards attempted credit hours as this impacts the GPA. Students should be aware that course withdrawals impact [Satisfactory Academic Progress](#) for federal financial aid eligibility. Once the student has achieved a 2.7 GPA and probation has been removed, the 2.7 GPA must be maintained until graduation. If the student again falls below the 2.7 GPA requirement, she or he will be excluded from the program and has a maximum of 30 days to appeal the exclusion.

The [Executive Associate Dean for Educational Affairs](#) and Office of Enrollment Services notify students of academic status within two weeks of the end of term. If a student has an Incomplete on their record, the potential grade at completion of the Incomplete is not considered when reviewing the academic record for probation. Students' academic status is only reassessed after they meet the above criteria (completion of 9 or more hours in the traditional program or 6 or more hours in the Executive MPH program).

Students whose Incomplete is resolved and whose cumulative GPA is below a 2.7, will not be placed on academic probation until the end of the semester in which the Incomplete is resolved (pending the cumulative GPA at the end of the semester is below a 2.7).

Students on Academic Probation are encouraged to review their progress and determine if they can raise their GPA above a 2.7 during completion of 9 credit hours (Traditional Programs) or 6 credit hours (Executive MPH program).

Contact: RSPH Enrollment Services at rsphenrollment@emory.edu

Dismissal for Academic Deficiency

Any student on academic probation who is unable to raise their cumulative GPA above a 2.7 within nine credit hours (or six hours for EMPH) will be excluded from Rollins School of Public Health. The student may appeal the dismissal by submitting the appeal to the [Executive Associate Dean for Educational Affairs](#). This individual may then convene the Academic Standards Committee to review the appeal request. The Academic Standards Committee will then make a recommendation to the Executive Associate Dean for Educational Affairs, by majority vote, of what steps, if any, the student is to take for reinstatement. The [Executive Associate Dean for Educational Affairs](#) makes the final decision which is then conveyed in writing for to the student.

A student who has been dismissed from the MPH/MSPH program may not approach faculty members regarding grade changes unless the student has received specific instructions from the Academic Standards Committee. If a student, without specific instructions from the Academic Standards Committee, contacts a faculty member regarding conditions for changing their status, the faculty member will refer the student directly back to the Academic Standards Committee. Students who are dismissed for academic deficiency may no longer earn the MPH or MSPH degree from Rollins School of Public Health.*

*Under exceptional circumstances a Department may petition the Executive Associate Dean of

ACADEMIC POLICIES

Educational Affairs for an additional semester of academic probation. Typically, for an exception to be granted, the student needs to have significantly improved their academic performance and be able to obtain no less than 2.7 GPA in the follow semester.

Contact: RSPH Enrollment Services at rsphenrollmentservices@emory.edu

Attendance

Although attendance generally is not recorded, students are expected to attend all classes and to negotiate individual course absences with the course instructor. Students registered for in-person classes, are expected to attend classes in person. Students who are registered for online synchronous courses, are expected to attend synchronous classes. Watching class recordings, if available, is not a substitute for attendance. Students may NOT attend (in-person or virtually) a class in which they are not enrolled. If a student would like to audit a course, students may refer to the Course Audit section of the catalog.

Rollins School of Public Health does NOT permit enrollment in an in-person or hybrid course if a student is unable to attend in-person. Exceptional circumstances (e.g. severe medical condition) that occur at the end of the semester may be considered an exception to this policy with approval of the Executive Associate Dean for Educational Affairs.

Contact: RSPH Enrollment Services at rsphenrollmentservices@emory.edu

Time Limit

Students have a five-year limit to complete their MPH/MSPH degree. Under extraordinary circumstances, students may petition the [Executive Associate Dean for Educational Affairs](#) with the support of their department chair for one extension, provided the petition is initiated no less than one semester before the five-year limit. The extension will be for a period of one year. Only course credits earned within five years prior to graduation may be applied toward the 42-credit hour degree requirement for a master of public health, or the 48-credit hour degree requirement for a master of science in public health. Students who are granted permission to exceed the five-year limit may be required to repeat courses.

Graduation Requirements

Students must submit a formal application in OPUS for a degree to be awarded in a particular semester. Submitting the degree application for graduation in OPUS is due during the early part of the semester in which the student intends to graduate. There is no penalty for a student who applies for a degree but fails to complete all requirements for the degree in that semester. Please note, however, that all students must submit an application in the semester in which they intend to graduate, even if they have submitted an application in past semesters. If students are enrolled in a dual degree program, they must submit separate applications with each school. Both dual degree students and students completing the Accelerated MPH for External Graduate/Professional School Students, are responsible for notifying RSPH Enrollment Services the beginning of the intended semester where all MPH degree requirements will be met. Enrollment Services will then activate an online degree application for the MPH. Students must be enrolled during the semester in which they intend to graduate.

- An overall GPA of 2.70 is required for graduation.
- Students must pass all required MPH/MSPH core and department core courses
- Students must have completed at least 42 semester hours (MPH) or 48 semester hours (MSPH) within five years from original enrollment.
- Students must complete their financial responsibility of paying the total tuition for their academic plan (4 semesters, 3 semesters, Dual Degree Accelerated MPH for External Graduate/Professional School Students, 4+1 Programs, Executive MPH, and Part-time).
- A passing grade (B- or better or S) must be achieved on the Thesis or in the Capstone Course.
- Students must complete an Applied Practice Experience and have completed the information in the Web Portal for clearance by the date required.
- Students are required to be enrolled at Emory University in the semester in which they wish to graduate.*
- Students who wish to graduate in any semester MUST file a “Degree Application” before the deadline for that semester.

Each semester, the deadline to apply for graduation is listed on the Academic Calendar. **All requirements must be met before a student is awarded the MPH or MSPH degree.** Students must have completed ALL coursework and degree requirements to participate in the graduation ceremonies including their Integrative Learning Experience and Applied Practice Experience. Students may not graduate with an Incomplete or In Progress grade on their academic record, even if the course is not counting towards the degree.

Contact: RSPH Enrollment Services at rsphenrollmentservices@emory.edu

Graduate in Residence (GIR) Status

Graduate in Residence is a special registration category reserved for eligible Rollins students who completed required coursework but who have an In Progress grade in APE and/or ILE, or who have an Incomplete grade. Students who have an Incomplete grade that resolves to an Incomplete Failing grade, or does not meet degree requirements, will be required to retake the course or meet degree requirements in a different way if available (e.g. take course and transfer course into RSPH) or re-enroll and take the course at the prevailing per credit hour tuition rate.

Students enrolled in this status will be assessed a reduced tuition rate. Students registered as GIR will be considered full-time, will be eligible for limited federal loans, and will have the on-campus privileges of all full-time students. The GIR status carries no academic credit and is not required to complete a Rollins degree program.

Students may be registered as a GIR for no more than three semesters.

Before a student is registered for their second or third semester as GIR, continued progress towards the completion of the degree must be demonstrated to the department. If a student is not able to demonstrate progress towards completing degree requirements, the department may determine to deny this registration until due progress is demonstrated.

Registration in GIR status should happen no later than the semester's Add/Drop/Swap date.

Contact: RSPH Enrollment Services at rsphenrollmentservices@emory.edu

Leaves of Absence

A student in good academic standing may be granted up to two one-year leaves of absence (LOA) upon recommendation of the student's department. The student must demonstrate that during this period he or she must (or plans to) interrupt progress toward the degree. The student should be aware that the university will not certify to loan officers or governmental agencies that a student on leave of absence is in residence or actively pursuing a course of study.

For the purpose of determining eligibility for leave of absence, a student must be in good academic standing and have resolved all incomplete work. Time spent in leave of absence does not count toward the five-year limit. Students beyond this limit are not eligible for leave, but may apply for extension of the time within which to complete degree requirements, in full accord with the rules governing such extensions. In progress (IP) grades in a student's Integrative Learning Experience and/or Applied Practice Experience do not negatively impact the student's academic standing.

Leaves of absence are not to be used to resolve academic difficulties, reconsider continuation in study, or finish incomplete work. Rather, this policy is intended to allow students to "step out of" academic work for a specified period, during which they will be unable to continue work in any way, as when required to take advantage of a unique professional opportunity, deal with short-term disabilities, or meet competing responsibilities of a nature which preclude meaningful work toward the degree.

ACADEMIC POLICIES

Though non-enrolled students in good academic standing may submit an LOA form at any time, the beginning of the semester in which they submit the LOA begins the one year period. For example, if a student submits an LOA form in March for Spring 2023, their LOA will be until the start of the Spring 2024. Similarly, if a student makes a complete withdrawal and LOA, the semester in which they completely withdraw begins the one year LOA. For example, if a student submitted a complete withdrawal and LOA in October 2023, their one year LOA would end at the beginning of Fall term 2024. Students who wish to re-enroll prior to the one year term, may do so. Any student returning from an LOA must complete the Application for Readmission Form.

A student desiring to return to the Rollins School of Public Health after a leave of absence should request readmission at least 30 days prior to the beginning of the term in which they wish to return.

Contact: RSPH Enrollment Services at rsphenrollmentservices@emory.edu

Academic Advisement

Upon admission to the program, degree-seeking students are assigned to a full -time staff adviser (ADAP). Advisers for students is a department Assistant or Associate Director of Academic Programs. Students are also assigned a faculty advisor. Students may also be advised by the department Applied Practice Experience Advisor and/or the department's Director of Graduate Studies.

Contact: Student's ADAP

Coursework at Other Colleges/Institutions

Degree-seeking students in the MPH and MSPH programs may take courses at other Emory schools with permission from the course instructor, school and the approval of their department. Graduate-level courses may count as electives towards the student's degree completion with approval of the academic program in which they are enrolled. Students may also take classes at Emory College (undergraduate school) as additional courses, but these credits will not count towards the completion of degree requirements though letter grades and WF will factor into the student's GPA. Students may petition the department and the Executive Associate Dean for Educational Affairs for permission to take relevant courses unavailable at Emory University at other Council on Education for Public Health (CEPH) accredited institutions.

Rollins participates in the Atlanta Regional Commission for Higher Education (ARCHE) cross-registration agreement. Students wishing to enroll in courses outside Emory should try to enroll at one of these participating institutions, if possible. Complete information pertaining to cross-registration is available at the University Registrar's Office. ARCHE courses are transferred back to Emory as Satisfactory or Unsatisfactory Grading. Students who wish to use an ARCHE course to meet a degree requirement must receive permission in advance of enrollment from the Executive Associate Dean of Educational Affairs for conditions under which the course may count towards the degree. In these exceptional circumstances, students need to contact their ADAP and Enrollment Services (rsphenrollmentservices@emory.edu) in advance of ARCHE application.

If a particular course is not available at an ARCHE member institution, the student may enroll as a transient student at a CEPH accredited nonmember institution. Student requests to cross register or enroll as a transient student should be submitted in writing to their ADAPs and the department chair at least one month prior to registration. These requests should include a description of the CEPH competencies, course learning objectives, course requirements, and required readings associated with the proposed course. Additional information about cross registration is available from the University Registrar at 404.727.6042.

Contact: Student's ADAP & [Office of the University Registrar](#)

Transfer Credit

Up to six semester hours of transfer credit may be allowed for relevant graduate-level courses taken at a CEPH accredited academic institution for core coursework or another academic institution for elective credits within a total of five years (3 years prior to matriculation and 2 years to degree), provided these credits were not used toward another degree. The transcript must reflect a grade of B or better for transfer credit to be granted. The request for transfer credit must be approved by the department chair or designee where the course is taught. The acceptance of transfer credits does **NOT** prorate or change the student's responsibility for full payment of the established tuition plan for their degree.

Exception: Accelerated MPH for External Graduate and Professional School students may transfer up to ten hours towards the MPH from their concurrent graduate/professional program.

Contact: RSPH Enrollment Services at rsphenrollmentservices@emory.edu

Dual Degree Transfer Credit

Up to four (**4**) semester hours of transfer credit may be allowed for relevant graduate-level courses taken at a CEPH accredited academic institution for core coursework or another academic institution for elective credits. Transfer credits must have been completed within three years prior to enrollment in the initial degree program and not used toward another degree. The transcript must reflect a grade of B or better for transfer credit to be granted. The request for transfer credit must be approved by the department chair or designee where the course is taught.

Contact: RSPH Enrollment Services at rsphenrollmentservices@emory.edu

Certificate Program Transfer Credit

Credits from another academic institution **may not be transferred** towards the completion of a stand-alone certificate program. If an applicant has completed coursework at the graduate school level at a CEPH-accredited academic institution that he/she believes is similar in content, the applicant may submit a request to waive that particular course, affording them the opportunity to take another related course to complete the certificate requirements.

Contact: RSPH Enrollment Services at rsphenrollmentservices@emory.edu

Course Audit

The charge for audit courses is the same as for credit courses. Courses audited may not later be used for credit by examination, nor may they be transferred to credit courses after the end of the course change period. Although the tuition fee is the same for credit courses, **audit hours do not count toward eligibility for federal financial aid. Students wishing to Audit a course, must submit an Audit request form to their ADAP.**

Contact: Student's ADAP & RSPH Enrollment Services at rsphenrollmentservices@emory.edu

Transfer Between Departments

Students may request a transfer from one department or program to another. The department to which the student seeks to transfer will review the student applicant. Both departments must agree to the transfer. Notification of agreement should be sent to Enrollment Services.

Contact: Student's ADAP

Curriculum Policy

The Rollins Education Committee decides curriculum policy with oversight from the university-wide Academic Review Committee. The purpose of the Education Committee shall be to initiate, develop, establish, and interpret standards pertaining to the curriculum of the MPH and MSPH degrees and their delivery and to approve, review, and evaluate academic course offerings at Rollins.

ACADEMIC POLICIES

Student Course Petitions

Student course petitions requesting course waivers, course credit, and transfer credit must first be approved by the appropriate department chair(s) or their designees before the course is offered or taken. Additional information and details regarding criteria and process for submitting course petitions may be found here: https://www.sph.emory.edu/rollins-life/documents/Course_petition19-20.pdf.

Contact: Student's ADAP

Enrollment During Semester of Graduation

Rollins requires that students be enrolled in the University during the semester in which they graduate.

Exception: Accelerated MPH for External Graduate and Professional School Students are waived from this requirement if they are enrolled in their graduate/professional program.

PhD Programs

Academic policies for the PhD programs may be obtained from Laney Graduate School at gs.emory.edu.

Immunization Requirement

All Emory University students are required to provide documentation of all required immunizations using the Emory University Student Health Services Immunization Form by the deadlines established by each school or academic unit.

Public Health students who fail to complete the required vaccination, exemption, or declination forms will be blocked from first semester Add/Drop/Swap and from pre-registration for their second term of enrollment.

Please note that if students have begun a multi-dose immunization series prior to registration, such as Hepatitis B, it can be completed at the Emory University Student Health Service [EUSHS] Immunization Clinic; some vaccinations given at EUSHS are on a fee-for-service basis and are not covered by tuition.

Once students arrive on campus, they may visit EUSHS to obtain a titer in certain cases to determine which immunizations they still need or to obtain their deficient vaccinations. This is a fee-based service.

All Emory students must have the following required immunizations by the established deadlines, subject to the exemptions outlined below:

1. Measles, Mumps and Rubella
2. Tetanus-Diphtheria
3. Hepatitis B
4. Varicella (Chicken Pox)
5. Meningococcal ACWY
6. COVID-19 Vaccine-Primary Series and Booster
7. Tuberculosis (TB) Screening:

Emory University requires TB screening (PPD skin testing, QuantiFERON TB Gold or T-spot, and chest x-ray) within 6 months prior to matriculation for all international students who have arrived in the United States from countries in which TB is endemic. A listing of those countries from which students are exempt from undergoing tuberculosis screening can be found at <https://studenthealth.emory.edu/immunization/index.html>. International students from non-exempt countries will need TB clearance.

A detailed description of the four steps needed to attain immunization compliance, as well as the Required Immunization Form and the complete policy, can be found at <https://studenthealth.emory.edu/immunization/index.html>

Contact: [Emory University Student Health Services](#)

Student Grievance Procedure

Rollins students who wish to file a grievance or complaint that does not fall within the jurisdiction of the Rollins Student Honor and Conduct Code should first discuss the concern with the departmental ADAP. Depending on the nature and/or complexity of the complaint, the ADAP may either choose to address the issue with the appropriate parties themselves or to share the grievance with the department chair for further review and discussion.

Students who are not satisfied with the resolution through these channels may present their grievance to the [Senior Associate Dean of Enrollment Management & Student Affairs](#). The [Senior Associate Dean of Enrollment Management & Student Affairs](#) may choose to address the issue and resolve the grievance on an informal basis. If the student is not satisfied with this methodology, they may file a formal complaint.

To file a formal complaint, the student must submit a written statement addressed to the [Senior Associate Dean of Enrollment Management & Student Affairs](#). The statement must state the charge to be considered, describe fully the nature of the complaint, the evidence, and all circumstances surrounding the event(s). The dean of student affairs will convene a meeting of an Ad Hoc Grievance Committee, comprised of two faculty members and one student who are not affiliated with the department linked to the grievance. The Grievance Committee will review the written complaint. The Grievance Committee may request additional information from the grievant as well as statements and additional information from other persons involved in the situation. If necessary, the Grievance Committee may request a meeting with these persons.

On the basis of the written statement and additional information, the Grievance Committee will make a recommendation to the [Executive Associate Dean for Educational Affairs](#), providing supporting documentation. Taking into consideration the information and supporting documentation provided, the [Executive Associate Dean for Educational Affairs](#) will determine the legitimacy of the grievance and any further action to be taken. The [Executive Associate Dean for Educational Affairs](#) will inform the student and the Grievance Committee of the final determination.

A student may appeal the determination to the Grievance Appeal Council through the [Executive Associate Dean for Educational Affairs](#). The [Executive Associate Dean for Educational Affairs](#) will preside over this session. The decision of the Grievance Appeal Council is final.

Use of the Rollins school grievance procedure will not prejudice in any way a student's rights under the University Student Grievance Procedure.

This section contains the specific policies adopted by the various governing bodies of Rollins. All students at Rollins are subject to the rules and regulations of the university as set forth in the Rollins catalog. Students should be familiar with these policies.

Contact [Senior Associate Dean of Enrollment Management & Student Affairs](#)

Emory University Student Complaint Policy

In addition to the RSPH Grievance Policy, the University has a Student Complaint Policy. To view the full policy use this link: <https://emory.ellucid.com/documents/view/17609?security=481f3bc9642d299f207fa5ff46cdf6244ddea66>

Students should first attempt to resolve their complaints with the office most directly responsible for the action being challenged. Each school or administrative unit at Emory has an office of Student Services or other office that can further assist students and direct them if they are uncertain about where to start. In addition, students may use the Office of the Ombuds (<https://ombuds.emory.edu/>) to assist with

ACADEMIC POLICIES

complaints if they are uncertain or wish to discuss a situation confidentially before taking more formal action. Note that in cases of sexual misconduct, the Ombuds is a mandated reporter.

Federal financial aid laws and regulations require that each state has a process to review and act on complaints concerning educational institutions in the state. You may file a complaint with the State of Georgia Nonpublic Postsecondary Education Commission (GNPEC) website at www.GNPEC.org to submit your complaint/grievance with the state. You may also contact GNPEC by mail or by phone at the following address and/or phone number: Nonpublic Postsecondary Education Commission, 2082 East Exchange Place, Suite 220, Tucker, Georgia 30084-5305; Office: 770-414-3300, Fax: 770-414-3309. Please be aware that: “The Commission requires that students utilize and complete their institution’s grievance procedure in an attempt to resolve any complaint or concern before submitting a complaint to the Commission. If the institution’s resolution is not satisfactory, a student may then appeal to the Commission, but it will not investigate a complaint unless the student has exhausted all available grievance procedures outlined by the institution.

An agreement with the Georgia Nonpublic Postsecondary Education Commission permits students enrolled in distance learning programs to file a complaint with the following agencies if their complaint cannot be resolved by following Emory University procedures: 1) the Georgia Nonpublic Postsecondary Commission, 2) the Southern Association of Colleges and Schools, Commission on Colleges, and 3) a complaint to the state in which the distance learning student resides.

General University Policy

Registration

Registration is conducted on the dates indicated on the academic calendar. Students not completing registration on regular registration days are charged a late registration fee of \$150. Registration is not permitted after the schedule change period. Registration for any term is not complete until all requirements have been fulfilled and financial responsibilities are met. All matriculated, degree-seeking students are expected to preregister each semester.

Cancellation and Complete Withdrawal

Students who need to withdraw from the university due to some hardship are required to complete a complete withdrawal form found on the Enrollment Services website. The completed form is submitted to the Office of Enrollment Services via the department ADAP. An adjusted proportionate reimbursement of tuition and fees will be granted within the first five weeks of a semester for a complete withdrawal (for regular session courses). The tuition adjustment may be reduced if a student was enrolled in a pre-term course. Refunds for first-time Emory University students who are federal (Title IV) aid recipients will be prorated in accordance with regulations set forth by the Department of Education. A student who is dismissed will not receive a refund. No refund is received for partial cancellation of classwork after the deadline for the last day for course changes listed in the academic calendar. For more detailed information about tuition adjustments, refer to the tuition adjustment schedule posted by the Student Accounts and Billing Office.

Emory University has proudly partnered with GradGuard™ to offer [tuition insurance](#) from Allianz Global Assistance. The Tuition Protection plan is similar to an extension of the University’s refund policy. It can reimburse up to 100 percent of your non-refundable school costs after a midsemester withdrawal for a covered illness, injury, psychological condition, and more—protecting your investment in your education. Insurance must be purchased prior to the first day of classes. Coverage extends through the end of the semester. Tuition insurance is completely optional. The agreement you enter into is with GradGuard™, not Emory University. To get a quote or learn more about the Tuition Protection Plan call 866.724.4384 or [get a quote here](#). Terms, conditions, and exclusions apply.

Transportation, Vehicle Registration, Parking, and Traffic Regulations

Metro Atlanta Rapid Transit Authority (MARTA) buses connect Emory to the rapid-rail system and all parts of the city. Students who intend to have cars on campus must adhere to the following regulations:

1. All students operating automobiles, motorcycles, and scooters at Emory must register their vehicles with the Parking Office at the beginning of every academic year immediately after arriving on campus or as soon as the vehicle is acquired. Proof of ownership is required at the time of registration. There is typically an annual fee for registration, which must be paid at the time of registration. The Parking Office is located at 1945 Starvine Way. For additional information, see this site: <https://transportation.emory.edu>.
2. University traffic regulations are specified in a booklet provided at the time of vehicle registration. Persons with vehicles on campus are expected to know and abide by these regulations.

FERPA

The Family Educational Rights and Privacy Act (FERPA), the federal law that governs release of and access to student educational records. These rights include:

- **The right to inspect and review your education records.**
- Each student has a right of access to their education records, except financial records of the student's parents and confidential letters of recommendation. Requests for access specifying the records to be inspected should be made in writing to the University Registrar, 200 Dowman Drive, 100 Boisfeuillet Jones Center, Atlanta, GA 30322. The university will comply with a request within a reasonable time, at most within 45 days. In the usual case, arrangements will be made for the student to read their records in the presence of a staff member.
- **The right to consent to disclosures of personally identifiable information contained in your educational records, except to the extent that FERPA authorizes disclosure without consent (i.e. Directory Information).**

Release of student educational information is generally not done at Emory University without the express, written consent of the student. However, there are some exceptions. For example, directory information includes the following, and may be released without the student's consent:

- Name
- Whether or not the student is currently enrolled
- The school or division in which the student is or was enrolled and the class/year
- Dates of enrollment including full-time or part-time status
- Degree or degrees earned, date of degree, major area of concentration and academic honors received
- Awards of merit and participation in officially recognized activities and sports
- Address and telephone number
- Electronic mail address

Please note that you have the right to withhold the release of directory information. To do so you must complete an Information Release form. This form is available from the Office of the Registrar. Please note some important details regarding placing a "No Release" on your record:

Emory University receives many inquiries for directory information from a variety of sources outside the institution, including friends, parents, relatives, prospective employers, the news media, and honor societies. By having a "No Release" on your record, no information will be released, even to those people. Your name will not appear in the University Directory or the Commencement Bulletin. The university has the obligation to comply with subpoenas and court orders regardless of the student's request to block this information.

A "No Release" applies to all elements of directory information on your record. Emory University does not apply a "No Release" differentially to the various directory information data elements.

The right to request the amendment of your education records.

ACADEMIC POLICIES

Requests for amendment to education records should be made in writing to the University Registrar, 200 Dowman Drive, 100 Boisfeuillet Jones Center, Atlanta, GA 30322. The University will respond to a request within a reasonable time after receipt of the request. If the request to amend is denied, the University will inform the student of its decision and his or her right to a hearing.

The right to file a complaint with the U.S. Department of Education concerning alleged failures by the University to comply with the requirements of FERPA.

Students who feel their rights under FERPA have been violated can review information from the Department of Education's Family Compliance Office and file a complaint at the following link <https://studentprivacy.ed.gov/file-a-complaint>.

For further information on FERPA and Emory University's policy statement on confidentiality and release of information please select the following link <http://www.registrar.emory.edu/records-transcripts/ferpa.html>.

Questions concerning FERPA may be referred through email to the Office of the Registrar at registr@emory.edu.

Rollins School of Public Health Honor and Conduct Code

Rollins requires that all material submitted by a student in fulfilling his or her academic course of study must be the original work of the student and must uphold academic integrity. Students are expected to engage in ethical conduct consistent with the field of public health and Emory University. Students become familiar with the Honor and Conduct Code during their pre-Orientation Canvas module from Enrollment Services. Students are required to complete a Principles of Good Scholarship Survey and score a grade of 80% or higher to ensure they are familiar with the Honor and Conduct Code, Principles of Good Scholarship, and Citations. The Academic Resource Center offers a variety of resources to support student success.

Allegations of violations of the Honor and Conduct Code undergo a preliminary investigation by the [Senior Associate Dean of Enrollment Management & Student Affairs](#) or their appointee. The matter may be resolved at that point or referred to a formal Hearing Committee consisting of students and faculty members who make their recommendation to the [Executive Associate Dean for Educational Affairs](#). Students may petition to appeal that decision, in which case a second Hearing Committee may be convened. Policies and procedures governing honor and conduct code violations are contained in this document.

Introduction

In accordance with university bylaws, the president of the university has delegated to the dean and faculties of each school the responsibility of designing honor and conduct codes for its students. The Rollins Honor and Conduct Code was established to ensure personal responsibility and professional standards consistent with the field of public health and the missions of both Emory University and Rollins. In cases where the code has been alleged to be compromised, it sets forth a set of procedures to deal with the allegations. This code applies to any student registered in a Rollins course. Registered students are responsible for upholding all aspects of the code.

Student Academic Honor

Rollins requires that all material submitted by a student in fulfilling his or her academic course of study must be the original work of the student and must uphold academic integrity at the graduate level.

It is the obligation of every student to know the regulations regarding academic misconduct. Ignorance of these regulations will not be considered a defense. If a student is unclear about whether something violates the academic integrity of a course assignment and/or degree requirement, it is their responsibility to seek clarity with the instructor and/or academic advisor. In situations outside the classroom, the student should seek clarifications from the [Senior Associate Dean of Enrollment Management & Student Affairs](#).

Violations of Student Academic Honor

Violations of academic honor include any action by a student indicating dishonesty or a lack of academic integrity. Violations of academic honor include but are not limited to cheating, plagiarism, falsifying research data, falsification and forgery of university academic documents, facilitating academic dishonesty, and providing false evidence.

- *Cheating* includes, but is not limited to, seeking, acquiring, receiving, or passing information intended to facilitate performance on an examination prior to its authorized release or during its administration, or attempting to do so. Cheating also includes seeking, using, giving, or obtaining unauthorized assistance (including assistance from generative Artificial Intelligence tools) in any academic assignment or examination, or attempting to do so.
- *Plagiarism* is the act of presenting as one's own work the expression, words, or ideas of another person, whether published or unpublished (including the work of another student) without proper acknowledgment. Plagiarism also extends to presenting as one's own work the expression, words, or ideas generated through Artificial Intelligence tools without proper acknowledgement.

HONOR AND CONDUCT CODE

- *Falsifying data* includes, but is not limited to, creating information not actually collected, altering, or misrepresenting information and/or data.
- *Falsification and forgery* of university documents includes knowingly making a false statement, concealing material information, or forging a university official's signature on any university academic document or record. Such academic documents or records may include transcripts, add or drop forms, requests for advanced standing, requests to register for courses, etc. The falsification or forgery of non-academic university documents such as financial aid forms, academic standing verification letters, student recommendation letters, or other documents related to the academic record will also be regarded as a violation of the honor code.
- *Facilitating academic dishonesty* includes but is not limited to intentionally or knowingly helping or attempting to help another to commit an act of academic dishonesty.
- *Providing false evidence* in any Honor Council hearing or refusing to give evidence when requested by the Honor Council are considered to be honor code violations.

Student Conduct

The practice of public health requires an active commitment to ethical conduct consistent with the field of public health throughout all program requirements including, but not limited to, internships, research, field work, and Applied Practice Experiences. While this expectation is set, it is also important to outline behavior that is clearly the exception, or in violation of the code. Rollins respects the rights of organized and intentional student dissent and protests. In situations of student dissent and protest, the statements below should be interpreted in accord with Emory policies on student dissent and protest. The following conduct violations will be explored below.

Violations of Student Conduct

Violations of student conduct include any action by a student which violates ethical conduct consistent with the field of public health or Emory University. These actions may include, but are not limited to, dishonesty through misrepresentation or withholding of pertinent factual information; forging, falsifying, or misusing university documents or records; infraction of university rules and regulations which protect the university community; conduct in violation of university policies prohibiting discrimination, sexual harassment and sexual misconduct; theft; personal abuse; malicious damage/breaking and entering; disorderly conduct and disruption of class; misuse of electronic equipment and information technology; substance use; infractions of public law that involve and/ or are linked to Emory University; and actions that deliberately demean or violate the integrity of other university members.

- *Dishonesty through misrepresentation or withholding of pertinent factual information* in a student's personal dealings with other students, faculty, or staff of the university, or organizations or agencies of the university. This also includes falsification of information for the purpose of admission to Rollins or on a job application while enrolled as a student.
- *Forging, falsifying, or misusing university documents, records, identification cards, or other documents* so as to violate the requirement of academic honesty.
- *Infraction of rules and regulations established by university authority* to protect the interests of the university community. These rules and regulations assure that all members of the university community will be able to attain their educational objectives without hindrance in a conducive intellectual and educational atmosphere throughout the university community. Further they protect the activity, health, safety, welfare, and property of all members of the university community and of the university itself. These policies also pertain to student conduct when representing Rollins in academically related and/or community activities. These policies may be found on the Emory University website at <http://policies.emory.edu/8.1>.
- *Non-consensual sexual activity, including sexual harassment*, is considered Prohibited Conduct is an umbrella term that encompasses all unwelcome conduct based on sex or gender that is so severe and/or pervasive that it has the purpose or effect of unreasonably interfering with a person's University employment, academic performance or participation in University programs or activities, or creates a working, learning, program or activity environment that a reasonable person would find intimidating, hostile or offensive. "Prohibited Conduct" includes

Non-Consensual Sexual Intercourse, Non-consensual Sexual Contact; Sexual Exploitation; Sexual Harassment; Gender-Based Harassment; Retaliation; Aiding, Facilitating, Encouraging, Concealing, or Otherwise Assisting, Violating a Protective Measure and Title IX Misconduct. The University's Sex and Gender-Based Harassment and Discrimination Policy may be found on the Emory University website at <https://emory.ellucid.com/documents/view/16836>.

- *Hazing*, as prohibited by the [University Anti-Hazing Policy 8.11](#), is a broad term encompassing any activity expected of someone joining a group (or to maintain full status in a group) that humiliates, degrades or risks emotional and/or physical harm, regardless of the person's willingness to participate.
- *Theft* of any property of the university itself or of any property of any member of the university community, or its visitors or guests.
- *The intentional, wanton, or reckless physical abuse or verbal abuse* of any person by a student on the campus or on property owned or controlled by the university, or at a function under the university's supervision or sponsorship or such abuse of a member of the Emory community at any location or on-line forum.
- *Malicious damage/breaking and entering* by a student to the property of another member of the university community (student, faculty, or staff) or the property of the university itself, or to the property of any visitor or guest of the university or a member of the university community. Breaking into a locked room, office, or facility of the university, or entering a room, office, or facility that is clearly restricted is not permitted.
- *Disorderly conduct, disruption of class, and/or interference* by a student by violence, force, disorder, obstruction, or vocal disruption of university activity, or activity authorized or sponsored by the University or by any school, program, division or authorized student body, including disciplinary proceedings. Interference by a student with the instructor's right to conduct class as the instructor sees fit within the bounds of academic freedom and responsibility.
- *Misuse of electronic equipment and information technology* is not permitted at Emory University. Computers, networks, and software applications are powerful tools that can facilitate Emory's core missions in teaching, learning, research, and service. Access and utilization of these tools is a privilege. Users of Emory's IT resources may not share their passwords or other access credentials; attempt to hack, bypass, or violate security controls; access, modify, or share sensitive data or information without appropriate authorization; use access credentials issued to other individuals or attempt to impersonate another individual in order to access IT resources. Additionally, users of Emory's IT resources may not use those resources for any unethical or illegal purpose, such as violating copyrights or license agreements for any type of intellectual property (e.g., software, music, audio/ video recordings, photographs, illustrations, documents, media files, e-journals, e-books, databases); harassing other members of the Emory community; destroying or stealing equipment, software, or data belonging to others; intentionally damaging or destroying the confidentiality or integrity of IT resources or disrupting their availability; or monitoring or disrupting the communications of others.
- *Substance use that includes the use of illicit drugs or the non-medical use of prescription drugs* is not permitted at Emory University. Users, possessors, and/or providers of such drugs violate federal laws and state laws. Students who possess or use such drugs or who furnish drugs to others while on property owned or controlled by the university are committing a conduct offense. Additionally, providing alcoholic beverages to underage persons (under the age of 21) or to noticeably intoxicated persons is a conduct code offense, as is consuming alcohol by underage individuals, Alcohol and Drug Abuse Policy, <http://policies.emory.edu/8.8>. Tobacco use while on the property owned or controlled by the university is a conduct code offense Tobacco-Free Environment, <http://policies.emory.edu/4.113>.
- *Infractions of public law that involve and/or are linked to Emory University* that is the basis for an allegation or charge of violation of public law also may subject a student to an allegation of a student conduct violation. Acquittal or conviction in court does not necessarily exclude or dictate action by Rollins. Further, Rollins may proceed with a conduct matter without awaiting the start or conclusion of any legal proceeding.
- Actions contrary to the standards of Rollins and Emory University, including actions that are deliberately demeaning to other human beings or that violates the dignity and integrity of other

HONOR AND CONDUCT CODE

members of the university and community. See Emory University Policy 1.3. <https://emory.ellucid.com/documents/view/16834/?security=d3b7518a869d72e6d5b0c965c987b3c9053079b3>

Policies and Procedures

Student Honor and Conduct Code Structure

The Student Honor and Conduct Standing Council (subsequently referenced as the council) will be formed at the beginning of each academic year. The council shall consist of no fewer than 12 faculty members representing each department and degree program and no less than 20 student members reflecting the current Rollins student-body demographics. The [Executive Associate Dean for Educational Affairs](#), in collaboration with the [Senior Associate Dean of Enrollment Management & Student Affairs](#) will nominate faculty who will be members of the Council for a two-year term. Six new faculty members will be named each year to provide a staggered membership. Student membership will be comprised of students who volunteer their service and are selected by the [Senior Associate Dean of Enrollment Management & Student Affairs](#) or a designee. These students will serve as Honor and Conduct Code liaisons to their departments and fellow students for a one-year term. Members will be selected to serve on individual Hearing Committees based on affiliation and availability.

- The [Executive Associate Dean for Educational Affairs](#), or their designee, reviews the findings and recommendations for sanctions of the Hearing Committee and of the Appeal Committee.
- The [Senior Associate Dean of Enrollment Management & Student Affairs](#), or their designee, serves as the student honor and conduct code adviser. The student honor and conduct code adviser conducts the preliminary investigation and writes up the initial findings and determination.
- A Hearing and Appeal Committee Facilitator, appointed by the [Senior Associate Dean of Enrollment Management & Student Affairs](#), coordinates the hearing procedures and provides consistency in the processes and proceedings. The facilitator identifies council members to serve on a Hearing Committee and an Appeal Committee, prepares the agenda and the evidence, and presides over the actual proceedings to assure fair and systematic processes.
- Student's faculty or staff adviser (non-legal). The student charged may ask a faculty or staff member to assist and counsel him/her in preparing for and participating in the hearing. The adviser will not have the right to examine witnesses.
- A Hearing Committee will be comprised of a subset of the Student Honor and Conduct Code Standing Committee, and will include four members: two faculty members and two students. The hearing committee facilitator will serve as an ex-officio, non-voting member of each Hearing Committee. The hearing committee facilitator will preside over the proceedings.

No person involved in advising the student honor and conduct code adviser or his/ her designee during the preliminary investigation may serve as a voting member on the Hearing Committee for the specific proceeding. No individuals making the charge or directly involved with the case shall be members of the Hearing Committee.

In the case of an appeal, the Appeals Committee will be selected in the same method as the initial Hearing Committee and members are a subset of the council; however, no individual who served on the initial hearing committee shall sit on the appeals committee. If needed, a selected faculty member from the initial Hearing Committee may attend the Appeal Committee hearing as an ex officio, non-voting member to provide continuity with the original proceedings.

Making an Allegation

It is the responsibility of every member of the faculty, staff, and student body to cooperate in supporting the honor code. In pursuance of this duty, any individual, when he or she suspects that an offense of academic misconduct has occurred, shall report this suspected breach to either:

(a) the faculty member in whose class the suspected breach occurred; (b) a departmental assistant/ associate director of academic programs (ADAP); (c) a faculty member of the Honor Standing

Council; or (d) the [Senior Associate Dean of Enrollment Management & Student Affairs](#).

Allegations must be made within 30 days of when the alleged activity was discovered. Allegations may not be made more than 30 days after the end of the term OR after degree conferral. The individual should write their allegation of the specific violation and provide supporting documentation. An email submission from the person making an allegation will fulfill this requirement. The name of person making allegation will be shared with the student unless the person making the allegation submits a written request that they do not want their name shared during the preliminary investigation. If the preliminary investigation leads to a formal hearing, the name of the person making the allegation would be made known.

If an allegation is made at the end of the term, instructors may enter the grade the student has earned NOT including the allegation. The instructor may change/update the grade once the allegation has concluded. If an allegation is made before the end of the term, instructors are asked to refrain from posting a grade until the allegation has concluded.

Rights of Student Allegation is made Against

The student has the following rights:

1. Be considered not in violation of the Honor and Conduct Code until found otherwise by the Hearing Committee appointed by the student honor or conduct code adviser for this purpose.
2. The right to be notified in writing (email) of the allegation(s) against them. Written documentation of the allegation(s) must include the allegation(s) against them with enough specificity to enable them to prepare for the hearing on these allegation(s) (if a hearing occurs).
3. The right to choose a faculty or staff advisor (non-legal) to counsel them.
4. The right to a hearing before the Student Honor and Academic Code Hearing Committee facilitated by the Hearing Committee facilitator and to know the date, time, and place of the hearing. The right to know the names of witnesses who may be present at the hearing. From the time they receive written notice the allegation is referred for a hearing, the hearing takes place in at least 10 business days, unless they request for the hearing to take place within a shorter period of time.
5. The right to receive the roster of names of the faculty and student members of the council with the notice of the formal hearing. The student may identify any individuals on the council who they would not find acceptable to serve on the Hearing or Appeal Committees. The student must provide the list of unacceptable individuals and reasons for their exclusion to the Hearing and Appeal Committee Facilitator within 48 hours of receiving the roster. The Hearing and Appeal Committee facilitator will consider the written request of the student when they nominate members of these committees.
6. The right to be present during the hearing and/or appeal while all evidence is presented; the accused student does not have the right to be present during deliberations or voting of the committee. If the accused student is not present at the proceeding, it will be conducted with the accused student in absentia.
7. The right to have access to all written statements presented to the Hearing Committee and be allowed to hear and question witnesses who appear at the hearing. The right to appeal the findings of the hearing. A student who wishes to appeal the decision of the Hearing Committee must make such a request in writing to the [Executive Associate Dean for Educational Affairs](#). The written appeal must be made within 10 business days of receiving written notice of the Hearing Committee's findings and sanctions. (see Appeals).
8. If a determination is made the Honor or Conduct Code is violated, the Honor Code Committee will be informed of prior honor and conduct code violations and the current status of the student, before sanctions are recommended to the [Executive Associate Dean for Educational Affairs](#).

Preliminary Investigation and Arbitration

The [Senior Associate Dean of Enrollment Management & Student Affairs](#) serves as the student honor and conduct code adviser, or can appoint another official of Rollins to fill this role. The prehearing process consists of a preliminary investigation with the possibility of going into arbitration. The

HONOR AND CONDUCT CODE

preliminary investigation is designed to determine if there is sufficient evidence to substantiate a potential honor or conduct code violation. The student honor and conduct code adviser will have 10 business days to review the written allegation and documentation and determine whether evidence supports future action. The student honor and conduct code adviser may decide that insufficient evidence exists to substantiate a potential violation. In this case, allegations will be dropped. If the student honor and conduct code adviser decides that evidence warrants further action, the adviser will notify the student in writing that he/she must make an appointment to meet with the adviser within five business days to review the allegation. If the student fails to schedule or attend the meeting within that time frame, the allegation will go to a hearing.

The possible outcomes of the preliminary investigation include:

1. *Allegations are dropped:* The student honor and conduct code adviser finds that there is not sufficient evidence to proceed after speaking with the student. In this case, the allegation is dropped.
2. *Case is referred to the Hearing Committee:* The student honor and conduct code adviser finds that there is sufficient evidence to support a violation, but believes that the case, because of unusual circumstances or evidence, warrants a review by the Hearing Committee. These cases will go to a formal hearing.
3. *Arbitration:* The student honor and conduct code adviser finds that there is sufficient evidence to support violation and offers an appropriate disciplinary action to the student and the other parties involved. This may include the student admitting they violated the Honor or Conduct Code. Within five business days of the initial meeting with the student, the student honor and conduct code adviser will meet separately with all parties such as the student, the witnesses, and the faculty member to acquire additional information regarding the alleged incident. Arbitration can have of two outcomes:
 - *Arbitration A:* If all parties are satisfied with the findings and the proposed disciplinary action, the case will be considered successfully resolved and no further action will be taken. The issue and the final decision will be appropriately documented and maintained in the official student file to inform on any future allegations that may be brought forward.
 - *Arbitration B:* If either the student or the other parties do not agree with the guilty determination or do not believe the recommended disciplinary action is appropriate, the case will go to a formal hearing.

Formal Hearing

If it has been decided that the case will proceed to a formal hearing, the student will have no less than 10 business days between the date that the student receives written notice of the preliminary investigation resulting in a recommendation for a formal hearing, unless the student requests that the hearing take place within a shorter period of time.

1. The Hearing Committee Facilitator is responsible for conducting the hearing in a fair and impartial manner.
2. At the hearing, the alleged violation will be read. Evidence against the student will be presented by the Hearing Committee Facilitator, followed by questions from the Hearing Committee and the student. The Facilitator then presents the evidence provided by the student, and the Hearing Committee members again may ask questions.
 - a. Evidence shall be admitted without regard to the rules of evidence in courts of law.
 - b. Evidence may include, but is not limited to, witnesses, documents, tangible evidence, and written statements from witnesses not present. This documentation should all be from the preliminary investigation.
3. After thorough review of the case, the Hearing Committee will decide whether there is clear and convincing evidence that the student is in violation of the Honor and Conduct Code. A majority vote of the committee will suffice for a finding of a violation. An abstention is not considered a vote. If the student is not present at the hearing, the hearing will be conducted with the student in absentia.
- 4a. If the student is found in violation of the Honor Code, the Hearing Committee may recommend one or more of the following actions, or such other action as the Hearing Committee deems

- appropriate.
- a. Issue the student a warning with no further disciplinary action.
 - b. Request that the faculty re-evaluate the assignment in question and recalculate the grade.
 - c. Issue a failing grade on the assignment or for the course in question.
 - d. Place the student on academic probation for the remainder of the term or longer.
 - e. Suspend the student for the remainder of the semester or longer.
 - f. Dismiss the student from school.
- 4b. If the student is found in violation of the Conduct Code, the Hearing Committee may recommend one or more of the following actions, or such other action as the Hearing Committee deems appropriate.
- a. Issue the student a warning with no further disciplinary action.
 - b. Issue the student a warning with a requirement to make amends (apology, service, etc.)
 - c. Place the student on probation for a specified period of time.
 - d. Suspend the student for the remainder of the semester or longer.
 - e. Dismiss the student from school.
5. The [Executive Associate Dean for Educational Affairs](#) will receive the Hearing Committee decision and recommendations for sanctions in writing within three business days of the hearing's close. The [Executive Associate Dean for Educational Affairs](#) may choose to accept the recommendations for sanctions or suggest modifications to the recommended sanctions. The [Executive Associate Dean for Educational Affairs](#) will communicate his proposed modifications to the Hearing Committee within three business days of receiving the Hearing Committee's decision and recommendations. The Hearing Committee will collaborate with the [Executive Associate Dean for Educational Affairs](#) to reach a consensus on the appropriate sanctions. The [Executive Associate Dean for Educational Affairs](#) will send a letter to the charged student indicating the findings of the Hearing Committee, and the sanctions that will be taken. The finding will be made available to the accuser upon request. The [Executive Associate Dean for Educational Affairs](#) will report any action taken to the appropriate University, Rollins, and/or other officials.
6. A copy of the written notification will be included in the student's official school file. A copy will also be maintained in the Honor and Conduct Code database as part of a permanent record. If the student violates the honor or conduct standards again, the sanctions would be harsher with the possibility of suspension or even dismissal. Students who receive a warning are not considered in violation of the Honor or Conduct Code such that they would NOT report a violation in future applications and/or, if asked, Rollins School of Public Health would verify they did NOT violate the Honor or Conduct Code in any background checks, degree verifications, etc.

Appeals

A student who wishes to appeal the Hearing Committee's decision must make such a request in writing to the [Executive Associate Dean for Educational Affairs](#). The written appeal must be made within 10 business days of receiving written notice of the Hearing Committee's findings and sanctions from the [Executive Associate Dean for Educational Affairs](#). In the letter to the [Executive Associate Dean for Educational Affairs](#), the student must indicate the reasons for the appeal. After reviewing the request for appeal, an Appeal Committee will be appointed to review the charge(s), finding(s), and recommendation(s).

1. The Appeal Committee:
 - a. Shall be composed of members of the Council. It will consist of one student, two faculty members, and the Hearing and Appeal Committee Facilitator. The Hearing and Appeal Committee Facilitator will be responsible for conducting the hearing in a fair and impartial manner, and will be a non-voting member of the Appeal Committee. No voting member of the Appeal Committee shall have participated in the previous Hearing Committee. No member of the Appeal Committee can be involved in the case. If needed, a selected faculty member from the initial Hearing Committee may attend the Appeal Committee Hearing as an ex officio, non-voting member to provide continuity with the original proceedings.

HONOR AND CONDUCT CODE

- b. Shall be furnished with all written data concerning the formal hearing, including evidence presented, committee findings, and sanctions.
 - c. May request oral or written statements from the accused student and other witnesses, and may request that additional documentary evidence be presented.
 - d. Shall require a majority vote for a decision. An abstention is not considered a vote
2. The following actions may be recommended by the Appeal Committee:
- a. Affirm the prior decision.
 - b. Reverse the prior decision.
 - c. Modify the prior decision.
 - d. Decide that the case merits a new Formal Hearing. This hearing will be conducted in accordance with the original hearing procedures. In this case, the Hearing Committee will be composed of faculty and students who did not take part in the original Hearing Committee.
3. Within three business days of the Appeal Hearing's close, the Appeal Committee will inform the [Executive Associate Dean for Educational Affairs](#) in writing of its decision and recommended sanctions. The Executive Associate Dean for Educational Affairs may:
- a. Affirm the prior decision.
 - b. Recommend that the Appeals Committee revise the sanctions.

The [Executive Associate Dean for Educational Affairs](#) will send recommendations for revisions to the Appeal Committee within three business days of receiving the committee's decision and recommended sanctions. If revisions are recommended, the [Executive Associate Dean for Educational Affairs](#) will communicate their proposed modifications to the Appeal Committee within three business days of receiving the Appeal Committee's decision and recommendations. The Appeal Committee will collaborate with the [Executive Associate Dean for Educational Affairs](#) to reach a consensus on the appropriate sanctions. The [Executive Associate Dean for Educational Affairs](#) will write a letter with the final determination. The student charged with a violation shall be notified in writing of the decision and recommended sanctions within five business days. A copy of the letter will be placed in the student's file. If the Appeal Committee overturns the original finding, previous letters of notification will be removed from the student's file as appropriate.

Significant Violations of the Conduct Code

In the case of significant or extreme violations of the conduct code, Rollins school administration may act outside the protocols listed herein in order to take necessary, protective action to ensure that members Rollins' committee are not subject to imminent harm. Significant or extreme violations include, but are not limited to, instances of physical assault, sexual assault, sexual harassment, breaking and entering, brandishing a weapon or other situation in which the administration perceives a likely imminent threat of physical harm to a member of the Rollins community. Such significant violations will be referred to the Emory University Threat Assessment Team and managed by the Executive Associate Dean for Educational Affairs.

Nothing in this document constitutes a contract or creates a contractual obligation on the part of the Rollins School of Public Health and/or Emory University. The Rollins School of Public Health reserves the right to interpret and apply its policies and procedures, and to deviate from these guidelines, as appropriate in the particular circumstances and in accordance with the mission and goals of the Rollins School of Public Health and/or Emory University. The Rollins School of Public Health further reserves the right to alter or modify any statement contained in this document without prior notice.

Cases that involve sexual misconduct, sexual harassment, stalking, and/or sexual violence will be reported to the Emory University Title IX Coordinator in compliance with federal regulations as outlined in Title IX. Because of the sensitivity of such cases and depending on the nature of the alleged incident, the case may be investigated by the University Title IX Coordinator and/or designee and may be heard by a centralized hearing process.

In addition to the reporting of the incident to the Central Office, the basis of the hearing is preponderance of evidence which is based on patterns of behavior as opposed to undisputed factual

evidence. Additionally, both the accused and the accuser are advised of the findings of the case, and both have the right to appeal the decision.

Master of Public Health

Students pursuing a Master of Public Health (MPH) are required to complete no less than 42 semester hours of credit and an applied practice experience. Prospective students must designate one of six departments when applying to the school: behavioral, social, and health education sciences (BSHES); biostatistics and bioinformatics (BIOS); environmental health (EH); epidemiology (EPI); global health (GH); or health policy and management (HPM), or an Executive MPH program. There are also joint MPH programs with the departments of Environmental Health and Global Health (Global Environmental Health, GEH) and the departments of Global Health and Epidemiology (Global Epidemiology, GLEPI). The number of required and elective courses within specific departments vary.

Master of Science in Public Health

Students pursuing a Master of Science in Public Health (MSPH) are required to complete 48 semester hours of credit and a required applied practice experience. Prospective students must designate one of the following departments when applying to the school: biostatistics and bioinformatics (BIOS), epidemiology (EPI), or health policy and management (HPM). There is also joint MSPH programs with the departments of Global Health and Epidemiology. The number of required and elective courses within specific departments vary.

Applied Practice Experience

Applied Practice Experiences (APE) provide students the opportunity to integrate and apply the knowledge and skills gained through their coursework at the Rollins School of Public Health in a professional public health environment. The intent is for students to have a variety of practice experiences in different public health environments while in graduate school, such as government, non-government, nonprofit, industry, for-profit, and appropriate university-affiliated settings involving community engagement.

Specifically, the APE is a significant educational experience that requires a minimum of 200 hours in a public health agency, institution, or community under the supervision of a Field Supervisor. The Field Supervisor is a public health professional or qualified staff person at the APE site and who can evaluate student attainment of relevant competencies, learning objectives, required deliverables, and overall work performance.

The APE must be approved by an APE Advisor (i.e. a designated faculty or other qualified person within the student's academic department) prior to its start. Tracking of APE details and approvals is conducted through the Rollins APE Portal. Students are provided access to the Rollins APE Portal and may begin counting hours toward the APE requirement only after completing a minimum of 9-credit hours at Rollins (credit hours from other institutions or work experience prior to enrollment at Rollins will not count toward this requirement). For more information, visit the APE page on the Rollins website (<https://www.sph.emory.edu/rollins-life/community-engaged-learning/ape/index.html>). Students must register for the APE course through OPUS in their final semester of enrollment.

Foundational Public Health Professional Development

Matriculating Rollins students are required to complete two foundational learning modules during their first year at Rollins. Due to the introductory scope of these learning experiences, the amount of associated effort does not warrant the assignment of a typical course credit. However, satisfactory completion of these learning experience is required to obtain your degree.

PUBH 500: Introduction to Public Health

This learning module provides students with foundational knowledge of public health history, philosophy, and values. Students are introduced to major causes of morbidity and mortality in the US and globally as well as the differential impact of these outcomes on different population groups. Students explore the means by which structural bias, social inequities and racism undermine health

DEGREE PROGRAMS

and create challenges to achieving health equity at organizational, community and societal levels. PUBH 500 is a fully asynchronous, self-administered online module. No synchronous sessions are required.

PUBH 501: Interprofessional Education and Public Health Leadership

This training prepares students with basic skills necessary to perform effectively on inter-professional teams and to work effectively in different leadership contexts. Students will receive foundational instruction and will have the opportunity to demonstrate skills in the following areas: apply principles of team dynamics to advance teamwork; communicate effectively in inter-professional teams to address health problems; use the various roles and responsibilities represented among team members to promote solutions; engage in inter-professional practice with mutual respect and shared values; demonstrate concepts of various leadership styles, collaboration, and principles of project management including budgets, human resources, conflict, negotiation, and mediation.

Core Courses

The following courses are required of all MPH and MSPH students. Within each department, there are exceptions to these core courses. These exceptions are listed in each department section of this catalog.

Course	Course Title	Credit Hours
PUBH 500	Introduction to Public Health	0
PUBH 501	Interprofessional Education and Public Health Leadership	0
BSHES 500	Behavioral and Social Sciences in Public Health	2
BIOS 500/BIOS 500L	Statistical Methods with lab	4
EH 500	Perspectives in Environmental Health	2
EPI 504	Fundamentals of Epidemiology	2
or EPI 530	Epidemiologic Methods	4
GH 500	Critical Issues in Global Health	2
HPM 500	Introduction to the U.S. Health Care System	2

Department of Behavioral, Social, and Health Education Sciences

www.sph.emory.edu/bshes

Don Operario, Grace Crum Rollins Professor and Chair

Our department’s mission is to better the health of all people by advancing knowledge and training tomorrow’s leaders in how to change behavior and social conditions that influence health. To this end, we have developed master’s and doctoral curricula that emphasize the methodological skills that address and crosscut the critical public health challenges we face now and, in the decades, ahead. Our department stands out from others in that Atlanta is home to the Centers for Disease Control and Prevention, CARE, the American Cancer Society, the Carter Center and numerous state and regional health agencies. This provides a real-world laboratory giving unprecedented opportunities for applied practice experience and internship experiences for trainees to apply the skills they are gaining. The faculty in our department are dedicated teachers and mentors who have been recognized for their achievements locally, nationally, and globally.

Admission Requirements for the MPH Degree

Students with a variety of academic and professional backgrounds are eligible to apply to the Department of Behavioral, Social, and Health Education Sciences. Some pursue the MPH degree directly after completing their undergraduate studies in the natural sciences, social sciences, or the humanities. Some students apply to the department after work experience in public health. Admission is based on prior academic performance in postsecondary education, and demonstrated commitment to working in public health. Completion of a college-level statistics course or other quantitative courses prior to application is highly recommended. Students are only admitted in the fall to facilitate adherence to the standard course sequence. For more information, see the MPH Admissions Information area on our website.

Program Requirements for the MPH Degree in Behavioral, Social, and Health Education Sciences

Core Course Requirements

Course Number	Course Title	Credit Hours
PUBH 500	Introduction to Public Health	0
PUBH 501	Interprofessional Education and Public Health Leadership	0
BIOS 500/BIOS 500L	Statistical Methods I with lab	4
EH 500	Perspectives in Environmental Health	2
EPI 504	Fundamentals of Epidemiology	2
or EPI 530	Epidemiologic Methods I	4
GH 500	Critical Issues in Global Health	2
HPM 500	Introduction to the US Health Care System	2

Required Courses for MPH Degree in Behavioral, Social, and Health Education Sciences

BSHES 520	Theory Driven Research and Practice	3
BSHES 524	Community Assessment	3
BSHES 526	Program Planning in Health Promotion	3
BSHES 530	Program Evaluation	3
BSHES 532	Quantitative Data Analysis	3
BSHES 538	Qualitative Methods for Research & Evaluation	3
BSHES 540	Research Methods in Health Promotion	3
BSHES 579	Applied History of Public Health	2
BSHES 595	Applied Practice Experience	0
*Electives		0-2

*Elective credit hours are based on enrollment in EPI 530 or EPI 504

BEHAVIORAL, SOCIAL, AND HEALTH EDUCATION SCIENCES

Integrative Learning Experience

Students in the department are required to complete either a thesis or a capstone seminar to satisfy the integrative learning experience requirement. Both types of projects are designed to be original contributions to the knowledge base of behavioral sciences and health education. Students write theses under the supervision of a thesis chair who must be a BSHES faculty member and at least one other committee member. Whether students choose to collect their own data or utilize existing data sets, students have the opportunity to work toward a publishable manuscript. In the capstone seminar students are asked to apply and integrate the skills and competencies gained during their training to a select topic. Capstone projects are completed under the supervision of an instructor in a semester-long course.

BSHES 590 or	Capstone Seminar	4
BSHES 591W	Thesis Mentorship	1
and BSHES 599R	Thesis	3

Admission Requirements for the PhD Degree

To be admitted into the PhD program in Behavioral, Social, and Health Education Sciences, a student must complete all the admission requirements specified by the Laney Graduate School. Students must have completed a master's degree. Those with a master's degree outside of public health may need to take additional public health courses beyond the core doctoral curriculum.

To select the entering cohort, the department considers performance in undergraduate and graduate courses, letters of recommendation, research or published papers, fit with departmental areas of scientific strength, and other relevant experience. International students whose native language is not English must attain a score of 560 or more on the paper TOEFL or a score of 100 or higher on the computer-based TOEFL. Please see the Behavioral, Social, and Health Education Sciences website for complete degree requirements: (www.sph.emory.edu/departments/bshe/programs/phd)

Students apply for this program through the Laney Graduate School. The online application and additional instructions are provided at www.gs.emory.edu/admissions. The deadline for applications to the PhD program is December 1.

Financial Assistance for the Behavioral, Social, and Health Education Sciences PhD Program
Students admitted to the BSHES PhD Program receive merit-based support packages consisting of full tuition scholarships each year and annual stipends for two years. The awards are renewed each year, contingent upon satisfactory academic performance. Doctoral students receive annual stipends for the initial two years and in following years typically have the opportunity to be supported on research projects by faculty investigators, fellowship and/or grant funding obtained by the student, and by teaching in BSHES. Students may work as research assistants or in other activities related to their professional development during the summer months for additional income. Required courses are listed in the course description section.

Faculty

Melissa (Moose) Alperin, Assistant Professor of Practice. AB, Brown University, 1988; MPH, Emory University, 1991; EdD, University of Georgia, 2015. Public health workforce development; competency-based instruction; distance education and online instruction; scholarship of teaching and learning.

Kimberly R. Jacob Arriola, Charles Howard Candler Professor and Dean, Laney Graduate School. BA, Spelman College, 1994; MA, Northeastern University, 1996; PhD, 1998; MPH, Emory University, 2001. Improving public commitment to organ and tissue donation; equity in access to transplant; the development and evaluation of culturally sensitive health promotion interventions.

Linelle Blais, Associate Professor of Practice. BA, Rhode Island College, 1986; PhD, University of Rhode Island, 1993. Individual and organizational change, program development and evaluation, and translation of science to practice.

Emanuel A. Chavarria, Assistant Professor. BS, University of Florida, 2009; MS, 2010, PhD, 2014. Health disparities; cancer education and prevention; eHealth/mHealth interventions; community based participatory research.

- Dawn L. Comeau**, Research Professor. BA, Simmons College, 1991; MA, San Diego State University, 2000; MPH/ PhD, Emory University, 2009. Social determinants of health and health disparities, sexual identity, HIV, community-based research, program evaluation, and curriculum design.
- Hannah L. F. Cooper**, Rollins Distinguished Professor in Substance Use Disorders. BA, Yale University 1993; SM, Harvard University, 1998; ScD, 2003. Social epidemiology of drug use and drug-related harms; qualitative research methods; health disparities; urban health; epidemiologic and social theory; drug policy and related police strategies; geospatial and multilevel methods.
- Natalie D. Crawford**, Associate Professor. BS, Spelman College, 2004; MPH, Columbia University, 2006; PhD, 2011. Social determinants of health and health disparities.
- Kirk Elifson**, Research Professor Emeritus. BA, Knox College, 1965; MA, Vanderbilt University, 1968; PhD, 1972. Substance abuse, HIV/AIDS, methodology, violence.
- Cam Escoffery**, Professor and Vice Chair for Research. BS, Emory University, 1992; MPH, 1995; PhD, University of Georgia, 2002. Cancer prevention and control, chronic disease prevention and self-management, evaluation, implementation science.
- Chandra Ford**, Professor. BA, Pennsylvania State University; PhD, University of North Carolina at Chapel Hill, 2005. Racism in public health; critical race theory; public health critical race praxis; health equity.
- Yue Guan**, Research Assistant Professor. BFA, Peking University, 2008; MB, 2009; ScM, Johns Hopkins University, 2012; PhD, 2015 Genetic counseling; genomic risk communication; dissemination and implementation research in public health genomics.
- Regine Haardörfer**, Research Associate Professor. BS, Universität Erlangen-Nürnberg; MS, State of Bavaria; MEd, Western Governors University; PhD, Georgia State University. Research methodology, CBPR, multilevel modeling, structural equation modeling, tobacco control, weight gain prevention.
- Kimberly S. Hagen**, Research Assistant Professor; Associate Director of Developmental Core, Emory Center for AIDS Research (CFAR). BA, University of the South, 1979; MEd, University of Georgia, 1995; EdD, 1998. HIV/AIDS, vaccines, politics of program planning, curriculum development, instructional design, and public health program evaluation.
- Umedjon Ibragimov**, Research Assistant Professor. MD, 1999, Tajik State Medical University; MPH, Emory University, 2009; PhD, 2017. Structural determinants of HIV/AIDS, implementation of harm reduction services in the US and globally.
- Michelle C. Kegler**, Professor and Director, Emory Prevention Research Center. BA, University of Minnesota-Minneapolis, 1983; MPH, University of Michigan, 1985; DrPH, University of North Carolina-Chapel Hill, 1995. Community-based chronic disease prevention, tobacco control, obesity prevention, program evaluation, and coalitions/community partnerships.
- Kelli A. Komro**, Professor. BA, University of Wisconsin – Milwaukee, 1987; MA, Connecticut College, 1989; MPH, University of Minnesota, 1991; PhD, 1994. Adolescent Health/Child Health; Behavior and Health; Community Based Research; Health Outcomes; Health Promotion; Maternal and Child Health; Epidemiology; Health Disparities; Public Health Policy; Social Epidemiology; Group-Randomized Trials; Time-Series Field Experiments.
- Delia L. Lang**, Teaching Professor and Executive Associate Dean for Educational Affairs. BA, California State University at San Bernardino, 1994; MA, 1997; MPH, Loma Linda University, 1999; PhD, 2001. Public mental health, quantitative methods, scholarship of teaching and learning.
- Melvin Livingston**, Research Associate Professor. BA, University of Florida, 2007; PhD, 2013. Design and analysis of quasi-experimental trials evaluating community interventions and state policies; multi-level modeling, structural equation modeling, econometric methods, power analysis.
- Colleen M. McBride**, Professor. BA, University of Wisconsin, 1980; MA, University of Arizona, 1982; PhD, University of Minnesota, 1990. Behavioral epidemiology, cancer prevention, health promotion, and genomics.
- Robin E. McGee**, Teaching Assistant Professor. BS, University of Richmond, 2002; MPH, Emory University, 2006; PhD, 2017. Public mental health, employment and health, mindfulness, mixed- methods research and program evaluation.
- Alexandra Morshed**, Research Assistant Professor. BA, George Washington University, 2006; MS, Wageningen University, 2011; PhD, University of Washington in St. Louis, 2019. Dissemination and implementation science, obesity, diabetes, and cancer.
- Eric J. Nehl**, Research Associate Professor. BS, Ball State University, 1998; MS, 2001; PhD, Indiana

BEHAVIORAL, SOCIAL, AND HEALTH EDUCATION SCIENCES

University, 2009. Cancer prevention; health disparities; multiple health risk behaviors; research methods, measurement, and statistics; public health theory.

Don Operario, Rollins Professor and Chair. BA, University of California Los Angeles, 1993; MS, University of Massachusetts at Amherst, 1996; PhD, University of Massachusetts at Amherst, 1998. HIV, mental health, structural violence in historically marginalized communities.

Sara Redd, Research Assistant Professor. BA, Bucknell University, 2011; MSPH, Emory University, 2014; PhD, Emory University, 2020. Sexual and reproductive health, policy, and equity; health services research; maternal and child health; social determinants of health.

Whitney Rice, Rollins Assistant Professor. BS, Georgia Institute of Technology, 2010; MPH, Emory University, 2012; DrPH, University of Alabama at Birmingham, 2016. Health disparities; health policy; health services research; HIV/AIDS prevention; maternal and child health; reproductive health.

Anna Rubtsova, Research Assistant Professor. BA, Kiev Polytechnic University, 1996; M.Sc., London School of Economics and Political Science, 1999; MA, Emory University, 2008; PhD, 2011. HIV/AIDS prevention; maternal and child health; sexual health/behavior; psychosocial aspects of aging and women aging with HIV.

Jessica M. Sales, Associate Professor and Director of Graduate Studies, PhD Program BS, University of Iowa, 1998; MA, Emory University, 2000; PhD, Emory University, 2004. Adolescent health; maternal and child health; HIV prevention; STI prevention; sexual health promotion; reproductive health; biopsychosocial approach to health research; life course approach to health research.

Claire E. Sterk, President Emeritus of Emory University, Charles Howard Candler Professor, Emory University. Doctoral, University of Utrecht, 1983; PhD, Erasmus University Rotterdam, 1990. Social determinants of health; design and evaluation of health promotion programs for special populations; epidemiology of drug use; mental health; HIV/AIDS.

Megan Sutter, Research Assistant Professor. BA, University of South Florida, 2007; MS, Virginia Commonwealth University, 2014; PhD, Virginia Commonwealth University, 2017; MS, NYU School of Medicine, 2020. Cancer prevention; health disparities; LGBTI health; reproductive health; sexual health/behavior; social determinants of health.

Colin L. Talley, Teaching Professor. BA, University of Houston, 1988; MA, San Diego State University, 1993; MA, University of California, San Francisco, 1995; PhD, 1998. Lesbian, gay, bisexual, transgender, and queer public health; history of HIV/AIDS; health disparities; history and social studies of multiple sclerosis; history of public health, medicine, and disease in the United States.

Lisa A. Tedesco, Professor and Dean Emeritus, Laney Graduate School. BS, University of Bridgeport, 1972; MEd, State University of New York at Buffalo, 1975; PhD, 1981. Behavioral determinants of oral health, education policy.

Alexander C. Wagenaar, Research Professor. BA, Calvin College, 1977; MSW, University of Michigan, 1978; PhD, 1980. Public health law research; public policy evaluation; time-series research designs; injury prevention; alcohol control policy; health effects of economic security policies; inequality and disparities.

Elizabeth Walker, Teaching Associate Professor and Director of Graduate Studies, MPH Program. BA, University of Rochester, 2002; MAT, Johns Hopkins University, 2005; MPH, Emory University, 2008; PhD, Emory University, 2013. Public mental health, mental health services and workforce development, scholarship of teaching and learning, qualitative and mixed-methods.

Megan Winkler, Assistant Professor. BSN, Indiana University, 2006; MSN, University of Virginia, 2010; PhD, Duke University, 2016. Chronic disease prevention, obesity, social determinants of health, health equity, food retail environment, system science.

Briana A. Woods-Jaeger, Associate Professor. BA, Duke University, 2002; MA, University of Washington, 2006; PhD, 2010. Traumatic stress prevention; health inequities; development and implementation of culturally responsive mental health interventions; community-based participatory research; qualitative research.

Jointly Appointed Faculty

Weihua An, Associate Professor. MA, Statistics, Harvard University, 2009; PhD, 2011. Emory University, Department of Sociology.

Bethany Caruso, Assistant Professor. BA, Wesleyan University, 2003; MPH, Emory University, 2009; PhD, 2015. Emory University, Hubert Department of Global Health.

Cari Jo Clark, Associate Professor. MPH, Yale University, 1999; ScD, Harvard University, 2005. Emory

University, Hubert Department of Global Health.

Benjamin Druss, Professor. BA, Swarthmore College, 1985; MD, New York University, 1989; MPH, Yale University, 1995. Emory University, Department of Health Policy and Management.

Christine Ekenga, Assistant Professor. Emory University, Department of Environmental Health.

Dabney Evans, Associate Professor. Executive Director, Institute of Human Rights. BA, Arizona State University, 1996; MPH, Emory University, 1998; PhD, University of Aberdeen, 2010. Emory University, Hubert Department of Global Health.

Laurie Gaydos, Teaching Associate Professor. BA, Brown University, 1998; PhD, 2004, UNC Chapel Hill. Emory University, Department of Health Policy and Management.

Julie Gazmararian, Professor. BBA, University of Michigan, 1983; MPH, University of South Carolina, 1985; PhD, University of Michigan, 1982. Emory University, Department of Epidemiology.

Debra Houry, Associate Professor. BS, Emory University, 1994; MPH, Tulane University, 1998; MD, 1998. Emory University School of Medicine.

Kara L. Jacobson, Senior Associate. BA, Emory University, 1991; MPH, 1993. Emory University, Department of Health Policy and Management, Emory Center on Health Outcomes and Quality.

Nadine Kaslow, Professor. BA, University of Pennsylvania, 1978; MA, University of Houston, 1981; PhD, 1983. Emory University School of Medicine, Department of Psychiatry and Behavioral Sciences.

Michael Kramer, Associate Professor. BA, Earlham College, 1991; MMSc, Emory University, 1997; PhD, Emory University, 2009. Emory University, Department of Epidemiology.

Melissa Kottke, Associate Professor. BS, Iowa State University, 1997; MD, University of Minnesota, 2001; MPH, Emory University, 2009; EMBA, Emory University, 2012. Emory University School of Medicine, Department of Gynecology and Obstetrics.

Dorian Lamis, Associate Professor. BS, University of Georgia, 2003; MA, East Tennessee State University, 2005; PhD, University of South Carolina, 2013. Emory University School of Medicine, Department of Psychiatry and Behavioral Sciences.

Michelle Lampl, Samuel Candler Dobbs Professor. BA, University of Pennsylvania, 1975; PhD, 1983; MD, 1989. Emory University, Department of Anthropology.

Ighowwhera Ofotokun, Professor. BSc, 1983, University of Ibadan; MBBS, 1990, University of Benin; MSc, 2005. Emory University School of Medicine, Division of Infectious Diseases.

Barbara O. Rothbaum, Professor, Director of the Trauma & Anxiety Recovery Program. BA, University of North Carolina at Chapel Hill, 1982; MSc, University of Georgia, 1984; PhD, University of Georgia, 1986. Emory University School of Medicine, Department of Psychiatry.

Aaron Siegler, Associate Professor. BA, Emory University, 2002; MHS, Johns Hopkins University, 2005; PhD, Emory University, 2012. Emory University, Department of Epidemiology.

Randi Smith, Associate Professor. BS, Washington State University, 2002; MPH, Johns Hopkins University, 2006; MD, University of California-San Francisco, 2008. Emory University School of Medicine, Department of Surgery.

Drenna Waldrop-Valverde, Professor. BS, University of Alabama, 1993; MS, University of Southern Mississippi, 1995; PhD, University of Memphis, 1999. Nell Hodgson Woodruff School of Nursing.

Kathryn M. Yount, Asa Griggs Candler Chair of Global Health. BA, University of North Carolina, Chapel Hill, 1991; MHS, Johns Hopkins Bloomberg School of Public Health, 1994; PhD, 1999. Emory University, Hubert Department of Global Health.

Adjunct Faculty

Denise Ballard, Adjunct Assistant Professor. BA, Wayne State University, 1993; MEd, 1996.

Carla J. Berg, Adjunct Associate Professor. BA, Dakota Wesleyan University, 2001; MA, University of Kansas, 2003; PhD, University of Kansas, 2007; MBA, Emory University, 2017.

Daniel Crimmins, Adjunct Professor. BA, State University of New York at Binghamton, 1975; MA, State University of New York at Binghamton, 1978; PhD, State University of New York at Binghamton, 1984. Sandra Ford, Adjunct Professor. BA, Stanford University, 1986; MD, Howard University, 1991, MBA, 2000.

Teamiese Davis, Adjunct Instructor. BA, Spelman College, 2001; MPH, University of Maryland, College Park, 2004; PhD, University of Georgia, 2012.

Rachel Hall-Clifford, Adjunct Assistant Professor. BA, University of the South, 2001; MS, University of Oxford, 2002; MPH, Boston University, 2005; PhD, 2009.

BEHAVIORAL, SOCIAL, AND HEALTH EDUCATION SCIENCES

- Sandra Goulding**, Adjunct Assistant Professor. BA, Georgia State University, 2005; MPH, Emory University, 2007; MA, Emory University, 2011; PhD, Emory University, 2015.
- Nilaja Green**, Instructor.
- Kelli Stidham Hall**, Adjunct Associate Professor. BS, University of Kentucky, 2003; MS, University of Kentucky, 2006; MPhil, Columbia University, 2008; PhD, Columbia University, 2010.
- Venice Haynes**, Instructor
- Lauren Hudak**, Instructor. MD, Emory University.
- Camara Jones**, Adjunct Professor. BA, Wellesley College, 1976; MD, Stanford University, 1981; MPH, Johns Hopkins University, 1982; PhD, 1995.
- Cynthia M. Jorgensen**, Adjunct Professor. BA, Boston University, 1981; MA, 1982; PhD, University of North Carolina-Chapel Hill, 1988.
- Carol Koplan**, Adjunct Assistant Professor. BA, Brandeis University, 1964; MD, Tufts University, 1968.
- Howard Kushner**, Professor Emeritus. AB, Rutgers University, 1965; MA, Cornell University, 1968; PhD, 1970.
- Corinne Leach**, Adjunct Assistant Professor. BA, Franklin and Marshall College, 2000; MS, Villanova University, 2002; PhD, University of Kentucky, 2008; MPH, Harvard University, 2009.
- Richard Levinson**, Professor Emeritus. BA, University of Connecticut, 1964; MA, University Wisconsin-Madison, 1966; PhD, 1975.
- Leandris Liburd**, Adjunct Associate Professor. BA, University of Michigan, 1980; MPH, University of North Carolina at Chapel Hill, 1982; MA, Emory University, 2003; PhD, 2006.
- Kathy Miner**, Professor Emeritus. BA, California State University, 1968; MPH, 1979, Emory University; MEd, Georgia State University, 1979; PhD, 1984.
- Jean O'Connor**, Adjunct Associate Professor. BS, Emory University, 1998. MPH/JD, Emory University, 2001. DrPH, University of North Carolina at Chapel Hill, 2009.
- Ashli Owen-Smith**, Adjunct Assistant Professor. BA, Smith College, 2001; MSPH, Harvard University, 2005; PhD, Emory University, 2009.
- Andrea Grimes Parker**, Adjunct Associate Professor. BS, Northeastern University, 2005; PhD, Georgia Institute of Technology, 2011.
- Shilpa Narendra Patel**, Adjunct Assistant Professor. BA, University of California at Riverside, 1997; MPH, Boston University, 1999; PhD, Emory University, 2012.
- Amy Patterson**, Adjunct Assistant Professor. BA, Williams College, 1999; MHS, Johns Hopkins University, 2005; PhD, Emory University, 2012.
- Jennie P. Perryman**, Adjunct Instructor. AB, Georgia State University, 1974; MSN, Medical College of Georgia, 1978; PhD, Georgia State University, 1999.
- Eric Pevzner**, Adjunct Associate Professor. BS, Michigan State University, 1995; MPH, Emory University, 1998; PhD, University of North Carolina at Chapel Hill, 2005.
- Krystal Redman**, Instructor.
- Juan Rodriguez**, Instructor.
- Rakale Quarells**, Adjunct Professor. BS, Howard University, 1991; MS, 1993, PhD, 1998.
- Iris Smith**, Professor Emeritus. BA, Fordham University, 1971. MPH, Emory University, 1979. PhD, Georgia State University, 2000.
- Andrea Linn Swartzendruber**, Adjunct Assistant Professor. BA, Goshen College, 1994; MPH, Emory University, 1999; PhD, Johns Hopkins, 2012.
- Florence Kpulaban Tangka**, Adjunct Professor. BS, University of Reading, UK, 1989; MS, Rutgers University, 1994; PhD, University of Florida, 2001.
- Melissa Taylor**, Adjunct Instructor. BA, York College; MA, University of Maryland.
- Nancy J. Thompson**, Professor Emeritus. BA, Emory University, 1971; MPH, 1977; PhD, Georgia State University, 1989.
- Kari White**, Adjunct Assistant Professor. BA, University of New Mexico, 1998; MA, 2001, University of Arizona; MPH, Tulane University, 2003; PhD, University of Texas at Austin, 2011.
- Michael Windle**, Professor Emeritus. BA, University of Missouri–St. Louis, 1977; MA, Southern Illinois University–Edwardsville, 1980; PhD, Pennsylvania State University, 1984. Alcohol and drug use among youth, youth violence, mental health.
- Eric Wright**, Adjunct Professor. BA, Lewis and Clark College, 1984; MA, Indiana University, 1987; PhD, Indiana University, 1994.

Terri Wright, Instructor.

Amy Zeidan, Instructor. BA, Gustavus Adolphus College; MD, Washington University School of Medicine & Health Sciences.

Behavioral, Social, and Health Education Sciences Course Descriptions

BSHES 500 (2) Behavioral and Social Sciences in Public Health

FALL/SPRING. Provides the student with basic knowledge about the behavioral sciences as they are applied to public health. Content includes an overview of each discipline and current issues for students who are not enrolled in the BSHES MPH Program.

BSHES 517 (2) Adolescent Health

FALL. Introduces the major issues in adolescent health, such as physical and psychosocial growth, teenage pregnancy, HIV/AIDS, substance abuse, and violence and abuse. In addition, the course examines adolescent health services and adolescent health care-seeking behavior and presents students with the major theoretical perspectives regarding adolescent health from an interdisciplinary point of view.

BSHES 520 (3) Theory Driven Research and Practice

FALL. Introduces an array of conceptual theories that posit different patterns of association among a variety of behavioral, psychological, and social antecedents that together can influence health outcomes. The theories covered in this course align with aggregating levels of influence at the individual, interpersonal, organizational/community and macro societal levels. In-class discussion and assignments will enable the learner to understand the value of theory for ethical practice, research design, and intervention development, to gain skills in applying theories for program/intervention design, implementation and evaluation.

BSHES 522 (3) Principles of Curr. & Instr. in Health Education

SPRING. Introduces methods used by education practitioners in designing health interventions. Presents decision-making models for health education strategies selection for specific target populations. Explores techniques in group facilitation, mass communication, behavior modification, classroom instruction, and organizational development. Students begin and conduct activities for health promotion and education.

BSHES 524 (3) Community Assessment

FALL. The purpose of this course is to provide students with the academic background, technical skills and field experience to conduct a health-related community assessment (CA). The course encompasses the development of data about the health status, knowledge, perceptions, attitudes, motivation, and health practices of a population or community and its socioeconomic environment. Students will work with a team to prepare a community assessment report and presentation for a community/organization through community engaged learning.

BSHES 526 (3) Program Planning in Health Promotion

FALL. Students learn and apply basic program planning skills, including analysis of the social-ecological and behavioral determinants of a health problem or issue, community assessment, theory-informed intervention design, implementation and evaluation.

BSHES 530 (3) Program Evaluation

SPRING. The purpose of this course is to provide students with a foundation in designing and conducting an evaluation of a public health program. Students learn about various types of evaluation, with an emphasis on utilization-focused assessments. Further, students will apply the CDC Framework for Evaluation as they design and implement a small-scale public health evaluation for a community-based organization.

BEHAVIORAL, SOCIAL, AND HEALTH EDUCATION SCIENCES

BSHES 532 (3) Quantitative Data Analysis

SPRING. This data analysis course provides the student with the skills necessary to identify and analytically investigate theory-driven research questions with the goal to investigate behavioral, social and cultural factors that contribute to the health and well-being of individuals, communities, and populations using existing and new databases. In addition, students will learn how to interpret and present data, and communicate findings to a variety of audiences.

BSHES 538 (3) Qualitative Methods for Research and Evaluation

SPRING. This course provides a thorough introduction to qualitative research methods in public health at multiple ecological levels. Students will be introduced to relevant aspects of qualitative research and develop their critical ability to evaluate qualitative methods. Students will undertake their own mini-qualitative studies in order to apply their skills to a public health topic.

BSHES 539 (3) Qualitative Data Analysis

FALL. Allows students to develop mastery of a variety of practical techniques and theoretical approaches to qualitative data analysis, including the use of qualitative data analysis software (Maxqda). Students will be given the option of conducting lab exercises on an expanded set of secondary data or students' own data that was collected as part of their MPH or PhD thesis research.

BSHES 540 (3) Research Methods in Health Promotion

FALL. This course provides a foundation in designing and conducting health promotion research. Students will learn about various types of research at multiple levels of the social ecological model. The goals of the course include achieving competence in designing studies based on scientifically sound research methodologies and gaining the ability to critically evaluate health promotion research.

BSHES 542 (3) Socio-Behavioral Measurement

FALL. Provides the student with information and skills related to basic measurement issues involved in assessing variables in health behavior research.

BSHES 554 (2) Social Marketing

SPRING. Provides students with an overview of concepts and strategies used in social marketing and public health information campaigns. Emphasis is placed on developing skills to create consumer-oriented public health intervention efforts. These skills include formative research, audience segmentation, and channel analysis, and the application of behavioral theory.

BSHES 555 (2) Communication Approaches in Health Promotion

SPRING. Introduces the study of public health communication including its theoretical foundations, organizational models, and strategies for intervening at multiple levels with diverse populations.

BSHES 557 (2) Addressing Racism as a Public Health Issue to Promote Health Equity

FALL/SPRING. This course provides an overview of racism as a driver of health inequities and interventions designed to dismantle racism to promote health equity. Racism causes harm at multiple ecological levels from the individual level (e.g., internalized racism) to the systemic level (e.g., oppressive & unjust policies & practices). This course will introduce students to how racism operates to create and maintain health inequities and proposed interventions (programs & policies) to promote health equity.

BSHES 560R (1-3) BSHE Seminar

FALL/SPRING. Explores and analyzes selected topics in health education and promotion. Topics have included: health equity, health advocacy, and emerging topics in public health.

BSHES 565 (2) Violence As a Public Health Problem

SPRING. Introduces students to the concept of violence as a public health problem and focuses on the epidemiology, surveillance, and prevention of interpersonal and self-directed violence.

BSHES 567 (2) LGBTQ Public Health

SPRING. This course will focus on the possible benefits and costs of public health organizations' approach to consider the LGBTQ populations as special health populations with distinctive needs like those based on race, gender, or age. This course will explore key issues in LGBTQ health including analyzing public health for gay men, lesbians, bisexuals, and transgendered persons.

BSHES 579 (2) History of Public Health

FALL. In this course, we critically examine the history of public health to gain perspective on current health problems. Students analyze the history of public health institutions, concepts, and practices in the contexts of the history of the social determinants of health, culture, and changing ecologies of health and disease. This course also uses history to analyze health inequities with the goal of promoting health equity.

BSHES 583 (1) Mindfulness and Health

SPRING. Upon completion of this course, the student will be able to define mindfulness, describe its benefits for physical mental health, critically evaluate related literature, and perform mindfulness exercises.

BSHES 584 (2) Mental Health/Medical Interface in US

FALL. This course provides an overview of mental health services and policy by exploring the complex and dynamic relationship between general health, mental health, and public health in the United States. Why, given the frequent concurrence of these types of conditions are the systems that treat them so far apart? What are the implications of this gap for improving outcomes for people with mental health conditions?

BSHES 585 (1) Introduction to Public Mental Health

FALL. This course is designed to provide an overview of mental health issues from a public health perspective. It covers the concepts of mental illness versus mental health, describes the burden of mental illness, discusses diagnosis of prominent mental illnesses and their prevention, and addresses racial and ethnic disparities. Students also complete an experiential exercise to give them some perspective on what it is like to have a mental illness.

BSHES 586 (2) Prevention of Mental and Behavioral Disorder

SPRING. Students critically explore what prevention and promotion mean for mental and behavioral disorders and mental health across the life course and at different levels of the social ecological model (from the individual to policies). Students also evaluate different approaches for preventing mental and behavioral disorders, across the three stages of prevention, and for promoting mental health.

BSHES 590 (4) Capstone Seminar

SPRING. The Capstone seminars allow students to complete an individual project that allows them to integrate and apply knowledge, concepts, and skills learned in BSHES coursework to a topic of high public health relevance. Students can choose to take a Capstone course in Health Equity or Grant Writing. Students undertake an independent project that will result in a final 30-50 page paper and an oral presentation.

BSHES 591M (2) Injury Prevention and Control

FALL. Introduces injury as a public health problem. The epidemiology and surveillance, prevention, acute care, and rehabilitation of unintentional and intentional injuries will be discussed, with particular emphasis placed in injury research methodology and injury prevention programs. Case studies will explore the interaction of public policy and epidemiology in the prevention and control of injuries.

BSHES 591W (1) Thesis Mentorship

FALL. The thesis requires the conceptualization, design and implementation of an original project resulting in the preparation of a scholarly document. Organized as a directed study with the thesis chair, students develop and refine research questions, conduct a review and analysis of the public health knowledge base, select a theory or organizing framework, formulate a plan for data collection and an IRB application, and draft the initial three chapters of their project.

BEHAVIORAL, SOCIAL, AND HEALTH EDUCATION SCIENCES

BSHES 592 (2) Case Studies in Public Mental Health

SPRING. The purpose of this seminar is to a) enhance students' skills in critical analysis and evaluation of public mental health research; b) advance students' foundational knowledge of current mental health problems and potential solutions using a multi-disciplinary approach; c) improve students' presentation and group facilitation skills; and d) provide a forum for interaction between students, faculty and professionals with interest and expertise in public mental health. This course is the core course for the Certificate in Mental Health. Offered each spring, any current first year student enrolled in the MPH or MSPH program at RSPH that plans to pursue the Certificate in Mental Health must enroll in BSHE 592/HPM 592. Participating certificate students will be identified based on their enrollment in this course.

BSHES 595 (0) Applied Practice Experience

FALL/SPRING/SUMMER. An Applied Practice Experience (APE) is a unique opportunity that enables students to apply practical skills and knowledge learned through coursework to a professional public health setting that complements the student's interests and career goals. The APE must be supervised by a Field Supervisor and requires approval from an APE Advisor designated by the student's academic department at RSPH.

BSHES 596 (3) Maternal Child Health

SPRING. This is the foundational course for the Maternal and Child Health Certificate. It covers historical and theoretical underpinnings of maternal and child health problems and programs aimed to reduce morbidity, mortality, and health disparities. Skills in program planning and evaluation are taught through multidisciplinary teams working with academic and field-based faculty in local, state, federal, and nongovernmental agencies. Maternal and child health is defined as a field of public health that addresses underlying forces for these problems, the historical framework for ameliorating those problems, and current programs and policies that have evolved from that historical context. Maternal and child health programs are unique to reproduction and life course development; more common in women, infants, children, or adolescents; more serious in women, infants, children, or adolescents; or have manifestations, risk factors, or interventions that are different in women or during life course development.

BSHES 599R (3) Thesis

SPRING. Enables students to apply the principles and methods learned in an academic setting through the preparation of a scholarly document embodying original research applicable to public health, incorporating a research question that has been successfully evaluated with appropriate analytical techniques and is potentially publishable or has potential public health impact.

BSHES 700 (4) Applied Data Methods in Behavioral, Social, and Health Education

First semester doctoral students will gain theoretical and applied knowledge of data analysis within the context of the generalized linear model and an introduction to data science.

BSHES 710 (3) Research Designs in the Behavioral and Social Sciences

This course is designed to provide doctoral students with a solid understanding of research designs that are commonly used for the implementation of etiological and experimental research studies in the behavioral and social sciences. The course will cover examples from the field, as well examples conducted by faculty in the department. The course provides students with the fundamental language, concepts, and constructs associated with the scientific approach as well as instruction in the design and implementation of health promotion research studies. Examples of appropriate applications are critical to this course and will be provided by the instructor, as well as relevant BSHE faculty. This course is intended to complement other required courses in theory, intervention development, epidemiology and advanced statistical analysis. This course meets one time per week, and students are expected to attend each class. Assigned readings serve to augment the classes. Therefore, students are expected to complete readings before the class for which they are scheduled. Classes consist of example-based didactic lecture and student-led problem solving and discussion.

BSHES 712 (1) Grant Writing and Research Ethics

This course provides an overview of two discrete but related topic areas critical for advanced standing students whose interest lies in prevention research. First, this course provides students with basic knowledge about the grant application process, the criteria of how grants are reviewed at NIH, the art and science of “grantsmanship,” the essential elements needed for preparing an NIH application, and how to “put the pieces together” to create a clear, cogent and compelling application. Second, this course will address ethics in public health research. Students will become familiar with the ethics, principles, and the regulations applicable to prevention research.

BSHES 714 (2) Proposal Development I

FALL/SPRING. The Professional Seminar will focus on the development of the student’s own research interests, and is part of a three-course sequence that is designed to lead to (1) the creation of an NRSA grant proposal, and (2) a dissertation proposal that can be used to partially fulfill doctoral requirements. In this course, each student will develop the aims, significance, and innovation sections of their NRSA Research Strategy, and will critically review drafts of their colleagues’ aims, significance, and innovation sections.

BSHES 715 (2) Proposal Development II

The Professional Seminar will focus on the development of the student’s own research interests that are expected to lead to the development of a grant proposal that will also be used to partially fulfill doctoral requirements via a dissertation proposal. Each student will present the current status of their research and lead a critical discussion based on their work every other week of the semester. Students are expected to prepare drafts of their proposals and distribute them to the instructor and fellow-students three-days prior to class meetings. Fellow students and the instructor are responsible for reading and providing critiques of the proposals. This iterative process of proposal draft submission and feedback based on critiques continues for the semester, culminating in a final paper. The student presentation and critical discussion are intended to support further development of the background, methods, and data analytic aspects of the proposal. This seminar continues work begun by students during the Proposal Development I seminar.

BSHES 716 (1) Teaching in Public Health

The goal of this seminar is to prepare students for teaching in public health and for their role as a Teaching Assistant and Teaching Associate for Master of Public Health courses. This course covers evidence-based principles for teaching in public health, with an emphasis on inclusive pedagogies, how students learn, developing learning objectives and lesson plans, and designing engaging learning activities.

BSHES 721 (3) Applying Theory to Public Health Research & Practice

IRR. This course provides the student with advanced knowledge about the role of behavioral sciences applied to public health. Content includes an examination of behavioral theories and approaches that: 1) presently shape our understanding of health behavior 2) form the basis for most research agendas in health behavior, and 3) comprise “best practice” in health education and health promotion programs.

BSHES 725 (3) Health Promotion Interventions

FALL. The purpose of this course is to provide doctoral students with a deep understanding of the conceptual frameworks, values, and assumptions underlying a range of intervention strategies for solving public health problems. The course will also examine intervention design, implementation, and evaluation across various levels of social ecology.

BSHES 728 (4) Advanced Statistical Methods in the Behavioral and Social Sciences

SPRING. The general purpose of this doctoral level course is to introduce advanced topics in research methodology and statistical analysis. The first part of the course focuses on research methodology issues, while the second part focuses on data analysis and interpretation of results.

BEHAVIORAL, SOCIAL, AND HEALTH EDUCATION SCIENCES

Specifically, the course will:

- provide the students with an understanding of current research methodology with focus on data management, analysis, and aspects of measurement.
- familiarize students with advanced statistical techniques and provide students with a “working” knowledge of analytic techniques as they are applied in a prevention sciences research setting.
- develop the student’s ability to evaluate his or her own research as well as research conducted by others.
- provide students with a forum to discuss the research design and statistical analysis aspects of their own research proposals (or dissertation).

BSHES 730 (3) Hierarchical Linear Modeling

SPRING. This course is designed to provide doctoral students with theoretical and applied knowledge of hierarchical linear modeling (HLM). Foundational knowledge of HLM is taught by extending knowledge of regression analysis to designs involving a nested data structure. This course also includes instruction in programming in and interpretation of the output for computer software for conducting HLM. Furthermore, advanced topics such as HLM for ordinal outcome variables and dyadic data will be presented.

BSHES 732 (3) Structural Equation Modeling

This course is designed to provide doctoral students with theoretical and applied knowledge of structural equation modeling (SEM)

BSHES 760R (9) Professional Development Seminar: Approaches to Health Promotion

FALL/SPRING. This seminar will address a variety of topics of importance to the professional behavioral scientist in public health.

BSHES 797R (12) Directed Study

FALL/SPRING/SUMMER. Provides in-depth exposure to an advanced special topic not covered in regular courses.

BSHES 798R (12) Research Hours

FALL/SPRING. This course is designed for students to participate at advanced levels on specific scholarly research or developmental projects. Students will work independently as a statistical consultant and will collaborate with other researchers in a variety of settings.

BSHES 799R (12) Dissertation Research

FALL/SPRING. Directed doctoral dissertation research and writing (for post-candidacy students only).

Department of Biostatistics and Bioinformatics

<https://www.sph.emory.edu/departments/bios/index.html>

Robert Krafty, Rollins Professor and Chair

Biostatistics is the science that applies statistical theory and methods to the solution of problems in the biological sciences. The biostatistician differs from the traditional statistician in that they are confronted by a wider range of problems dealing with all the phenomena that affect people’s physical, social, and mental well-being. Thus, the biostatistician works closely not only with biological researchers but also with physicians, epidemiologists, survey researchers, local community planners, state and national health policy analysts, and government officials. At present, there is considerable demand for biostatisticians in research institutes, government agencies, and industry.

Bioinformatics is defined as the field of science in which biology, computer science, biostatistics, and information technology merge to form a single discipline. Bioinformatics more properly refers to the creation and advancement of algorithms, computational and statistical techniques, and theory to solve formal and practical problems arising from the management and analysis of biological data. Bioinformaticians work closely with biologists, mathematicians, clinical researchers, statisticians, and health scientists. Currently there is a tremendous demand in academia, industry, and government for individuals well-trained in the field of bioinformatics.

The Department of Biostatistics and Bioinformatics offers the Master of Science in Public Health (MSPH) and the Master of Public Health (MPH) degrees in biostatistics through Rollins. In addition, the department offers a PhD degree in biostatistics through the Laney Graduate School. At present, the department has 40 primary faculty members and 15 secondary or adjunct faculty. The research activities of the faculty are diverse and include studies of national and international scope.

Current research areas include the design, management, and analysis of clinical trials, survival analysis, environmental statistics, causal inference, machine learning, statistics of vector-borne and parasitic diseases, mathematical modeling of infectious disease, neuroimaging, metabolomics, bioinformatics, statistical genetics, spatial statistics and geographic information systems, sample survey design and analysis, discrete multivariate analysis, linear models, categorical data analysis, and statistical computing, as well as statistical issues related to cardiology, ophthalmology, neurology, nephrology, surgery, air pollution epidemiology, Alzheimer’s disease, breast cancer epidemiology, reproductive epidemiology, aging, and quality of life. Faculty of the department have collaborated with researchers at the US Centers for Disease Control and Prevention, The Carter Center, the Georgia Department of Human Resources, the Atlanta VA Medical Center, the Emory School of Medicine, the World Health Organization, and other health-related organizations.

The department coordinates the activities of the Biostatistics Collaboration Core, which serves as a resource for advice on the design, conduct, and analysis of studies in the health sciences. Students may get hands-on experience in practical biostatistical problems by working with faculty on real-life consulting problems. Research-oriented students are often employed as graduate research assistants.

Students can enter the department from a variety of academic and professional backgrounds. Some applicants pursue a degree directly after completing undergraduate studies. For others, they pursue a degree after completing medical or public health training or experience. Students with prior relevant coursework may receive academic credit toward their degree program if the course is taken at the graduate level and from a CEPH accredited program.

Department Admission Criteria

The Department of Biostatistics and Bioinformatics seeks to train students who are likely to become highly motivated and effective public health professionals. Applicants are selected on the basis of their quantitative skills and their potential to make a contribution to the practice of biostatistics in a public health setting. Admission criteria for the MPH and MSPH in Biostatistics are: (1) previous

BIOSTATISTICS AND BIOINFORMATICS

studies and grades, especially in quantitative areas such as mathematics, statistics, and computer sciences; (2) letters of recommendation that allow the evaluation of the applicant's quantitative abilities and/or professional background; (4) coursework, experience, or interest in health-related subjects; and (5) multivariate calculus (calculus III) for MPH and multivariate calculus (calculus III) and linear algebra for MSPH in which we would like to see a grade of B+ or better. The Graduate Record Examination (GRE) is optional. International applicants from non-English-speaking countries are required to take the Test of English as a Foreign Language (TOEFL) with a score of 85 or above or the International English Language Testing System (IELTS) with a score of 6 or above.

For information about our program, please contact Melissa Sherrer, MEd, at 404.727.3968 or msherre@emory.edu.

Which Degree Program Should I Choose?

Both the MPH and MSPH degrees offer comprehensive coursework in theory, methods, and practice. The degree programs have distinct course sequences. The MSPH courses emphasize the technical and theoretical aspects of statistical methods, while the MPH courses emphasize the application of statistical methods and communications. The following table details some of the major differences between the programs.

	MPH in Biostatistics	MSPH in Biostatistics
Program Focus	Statistical methods and practice	Statistical methods and theory
Credits Required	42	48
Elective Credits	4	9
Culminating Experience	Choice of either a thesis or capstone	Choice of either a thesis or capstone
Cohort Size	35	35
Sample Key Skills	Study design, data management, data analysis, survey analysis in public health	Study design, data analysis, statistical theory
Sample Career Path	Public health agency, local health department, public health-based NGO, medical school, doctoral study in public health discipline (e.g. epidemiology, environmental health, global health)	Pharmaceutical company, clinical research organization, public health agency, doctoral study in statistics or biostatistics

Core Required Courses for the MPH or MSPH Degree in Biostatistics

Course Number	Course Title	Credit Hours
PUBH 500	Introduction to Public Health	0
PUBH 501	Interprofessional Education and Public Health Leadership	0
BSHES 500	Behavioral and Social Sciences in Public Health	2
EH 500	Perspectives in Environmental Health	2
EPI 530	Epidemiologic Methods I	4
GH 500	Critical Issues in Global Health	2
HPM 500	Introduction to the US Health Care System	2

Program Requirements for the MPH Degree in Biostatistics

The MPH program in biostatistics is typically completed in four semesters. The MPH degree is a broad-based credential in all areas of public health. The objective of this program is to train students

with a strong foundation in statistical practice and prepare graduates to become biostatisticians involved in the design and analysis of studies in a variety of public health and biomedical settings. The total number of required credit hours is 42. To receive the MPH degree, the student must pass all the required, core, and elective courses, maintain a cumulative GPA of at least a B-, complete an applied practice experience, and submit an acceptable thesis or capstone.

Required Courses for the MPH Degree in Biostatistics

Course Number	Course Title	Credit Hours
BIOS 506	Foundations of Biostatistical Methods	4
BIOS 507	Applied Regression Analysis	4
BIOS 510	Introduction to Probability Theory	4
BIOS 511	Introduction to Statistical Inference	4
BIOS 521	Applied Survival Analysis	2
BIOS 525	Longitudinal and Multilevel Data Analysis	2
BIOS 531	SAS Programming	2
BIOS 580	Statistical Practice I	2
BIOS 595	Applied Practice Experience	0
	Electives	4

Program Requirements for the MSPH Degree in Biostatistics

The MSPH program in biostatistics is typically completed in four semesters. The objective of this program is to train students with a strong foundation in statistical theory for careers as biostatisticians in government and private health agencies, industry, and research institutes. The MSPH program also may serve as preparation for a doctoral program in biostatistics. A student must take nine credit hours of elective courses. The total number of credit hours required for the MSPH degree is 48. To receive the MSPH degree, the student must pass all the required, core, and elective courses, maintain a cumulative GPA of at least B-, complete an applied practice experience, and submit an acceptable thesis or capstone.

Required Courses for MSPH in Biostatistics

Course Number	Course Title	Credit Hours
BIOS 508	Biostatistical Methods I	
BIOS 509	Applied Linear Models	4
BIOS 512	Probability Theory I	4
BIOS 513	Statistical Inference I	4
BIOS 522	Survival Analysis Methods	2
BIOS 526	Modern Regression Analysis	3
BIOS 531	SAS Programming	2
BIOS 580	Statistical Practice I	2
BIOS 595	Applied Practice Experience	0
	Electives	9

Integrative Learning Experience

As the integrated learning experience of their education, students in the department are required to complete either a thesis or a capstone. Both types of projects are designed to be original contributions to the knowledge base or application of biostatistics. Students write theses under the supervision of a thesis advisor who must be a BIOS faculty member and reader. In the capstone, students are asked to apply and integrate the skills and competencies gained during their training to a select topic. Capstone projects are completed under the supervision of a BIOS faculty advisor and an instructor in a semester-long course.

BIOS 580	Statistical Practice I	2
BIOS 581	Statistical Practice II (Capstone)	2
or		
BIOS 599R	Thesis	2

BIostatISTICS AND BIOinformatics

Admission Requirements for the PhD Degree

To be admitted into the PhD program in biostatistics, a student must complete all the admission requirements specified by the Laney Graduate School. Requirements for admission include a baccalaureate degree from an accredited four-year college, an overall academic average of B or better, and satisfactory scores on the Graduate Record Examination (GRE) that includes the verbal, quantitative, and analytical sections. Evidence of command of the English language, as indicated by TOEFL scores, is required for international applicants whose native language is not English.

Students enter from a variety of academic and professional backgrounds. Coursework in college-level advanced calculus (multivariate calculus) and linear algebra is required for admission, and additional coursework in real analysis is preferred. No previous background in statistics is required. Those with a statistics background, however, may receive academic credit toward their PhD degree program. Students may elect to receive an MS degree after successfully obtaining PhD candidacy. For doctoral students, the Department offers a Concentration in Bioinformatics, Imaging, and Genetics (BIG). Please see the Biostatistics website (<https://sph.emory.edu/departments/bios/degree-programs/phd/index.html>) for complete degree requirements or contact Angela Guinyard, Assistant Director of Academic Programs, at angela.guinyard@emory.edu or 404-712-9643.

Financial Assistance for the Biostatistics PhD Program

Graduate student support for the PhD program is available in the form of tuition scholarships and stipends. These awards are offered at the time of admission to applicants with excellent quantitative skills and genuine interest in biostatistics. Awards may be renewed for up to four additional years of support, depending upon satisfactory academic progress and available funds.

Faculty

David Benkeser, Associate Professor. BS, University of Georgia, 2010; MPH, University of Georgia, 2010; PhD, University of Washington, 2015. Causal inference, infectious disease, data science.

Jose Binongo, Teaching Associate Professor. PhD, University of Ulster (UK), 2000. Collaborative biostatistics, statistics education.

Donna J. Brogan, Emerita Professor. BA, Gettysburg College, 1960; MS, Purdue University, 1962; PhD, Iowa State University, 1967. Sample survey design and analysis, breast cancer epidemiology, women's health.

Howard Chang, Professor. BS, University of British Columbia, 2004; PhD, Johns Hopkins University, 2009. Environmental epidemiology, Bayesian methods, spatial and spatial-temporal statistics.

George Cotsonis, Teaching Assistant Professor. MA, University of West Florida, 1978. Statistical computing, consulting.

Xiangqin Cui, Research Associate Professor and Director of Graduate Studies. BA, Nankai University, 1991; MS, Nankai University, 1994; PhD, Iowa State University, 2001. Veteran Affairs. Collaborative biostatistics, kidney disease, electronic health records.

Natalie Dean, Assistant Professor. BA, Boston University, 2009; AM, Harvard University, 2011; PhD, Harvard University, 2014. Public health surveillance, infectious disease epidemiology, emerging pathogens, vaccine evaluation, clinical trials design, test negative designs.

Kirk A. Easley, Research Professor. MS, Louisiana State University, 1981. Statistical consulting.

Johnathan Alex Edwards, Instructor. BS, Emory University, 2015; MSPH, Emory University, 2017. Biostatistics, data science, spatial analysis/GIS.

Lisa K. Elon, Research Associate Professor. BS, Virginia Tech, 1978; MS, North Carolina State University, 1983; MPH, Emory University, 1997. Sample survey analysis, longitudinal cohort study.

Ying Guo, Professor. BS, Renmin University, 1998; MS, 2001; PhD, Emory University, 2004. Multivariate survival data with focus on developing new statistical methods to characterize and model agreement among survival times, statistical imaging.

Michael J. Haber, Professor. BSc, Hebrew University (Jerusalem), 1965; MSc, 1968; PhD, 1976. Categorical data analysis, statistical methods for infectious diseases data, evaluation of vaccine effects.

John J. Hanfelt, Professor. AB, Harvard University, 1984; MS, George Washington University, 1988; PhD, Johns Hopkins University, 1994. Longitudinal data analysis, genetic epidemiology,

estimating functions, approximate likelihood.

Yijuan Hu, Professor. BS, Peking University, 2005; PhD, University of North Carolina at Chapel Hill, 2011. Statistical genetics, microbiome, missing data, semiparametric inference.

Yijian (Eugene) Huang, Professor. BS, Zhejiang University, 1990; MS, University of Minnesota, 1994; PhD, 1997. Survival analysis, covariate measurement error, semi and nonparametric inferences.

Mary Kelley, Research Professor. BS, University of Pittsburgh, 1988; MS, 1995; PhD, 2004. Mental illness research, health outcomes research, schizophrenia research.

Yi-An Ko, Research Associate Professor. BS, National Taiwan University, 2004; MS, University of Southern California, 2007; MS, University of Michigan, 2009; PhD, 2014. Statistical Modeling, Cardiovascular Diseases, Biomarkers, Genetic Epidemiology.

Robert Krafty, Rollins Professor and Chair. BS, SUNY at Stony Brook, 2000; MA, University of Pennsylvania, 2002; PhD, University of Pennsylvania, 2007. Times series, Signal Analysis, Multilevel Data, Bayesian Statistical Learning, Functional Data.

Michael H. Kutner, Professor. BS, Central Connecticut State College, 1960; MS, Virginia Polytechnic Institute and State University, 1962; PhD, Texas A&M University, 1971. Linear models, variance components, experimental design, clinical trials.

Siu Yin (Max) Lau, Assistant Professor. BS, University of Hong Kong, 2009; MPhil, University of Hong Kong, 2011; PhD, Heriot-Watt University, 2015. Bayesian Models, Model Assessment, Genetic Data.

Yuan Liu, Research Associate Professor. MS, University of North Carolina, 2004; PhD, 2008. Cancer, Observational Studies.

Joshua Lukemire, Research Assistant Professor. BS, University of Georgia, 2015; MS, Emory University, 2018; PhD, Emory University, 2021. Neuroimaging statistics, bayesian modeling.

Robert H. Lyles, Professor and Director of Graduate Studies. BS, Vanderbilt University, 1988; MS, University of North Carolina- Chapel Hill, 1991; PhD, 1996. Longitudinal data analysis, prediction of random effects, measurement error models, missing data.

Tianwen Ma, Assistant Professor. BS, University of Michigan, 2015; MS, University of Michigan, 2018; PhD, University of Michigan, 2022. Bayesian analysis, brain-computer interface.

Amita K. Manatunga, Donna J. Brogan Professor of Biostatistics BSc, University of Colombo, 1978; MSc, Purdue University, 1984; PhD, University of Rochester, 1990. Multivariate survival analysis, frailty models, longitudinal data.

Rameshbabu Manyam, Research Assistant Professor. BTech, National Institute of Technology, Warangal, India, 1991; MTech, Indian Institute of Technology (Banaras Hindu University), Varanasi, India, 1993; MS, Georgia State University, 2002; PhD, Georgia State University, 2019. Cardiovascular Diseases, data mining, data science, machine learning.

Tarrant McPherson, Research Assistant Professor. BS, University of Alabama; 2013, MA, University of Alabama, 2013; PhD, University of Alabama at Birmingham, 2022. Biomarkers, clinical trials, longitudinal analysis, survival analysis.

Raphael Murden, Research Assistant Professor. BA, Morehouse College, 2008; MA, Washington University, 2011; PhD, Emory University, 2021. Multimodal data integration methods, functional data analysis, health disparities, HIV.

Razieh Nabi, Rollins Assistant Professor. BSc, Sharif University of Technology, 2012; MSc, Istanbul Sehir University, 2015; MSc, University of Texas-El Paso, 2016, PhD, Johns Hopkins University, 2021. Causal Inference, semiparametric statistics, missing data, graphical models, algorithmic fairness, machine learning.

Azhar Nizam, Research Professor. BA, Grinnell College, 1985; MS, University of South Carolina, 1987. Multiple comparisons, statistical education.

Limin Peng, Professor. BS, University of Science and Technology of China, 1997; MS, 2000; PhD, University of Wisconsin, 2005. Survival analysis, empirical processes, causal inference, Bayesian statistics, bioinformatics.

Emily Peterson, Research Assistant Professor. BS, Davidson College, 2006; MS, Pennsylvania State University, 2013; MS, Vanderbilt, 2015; PhD, University of Massachusetts Amherst, 2020. Geographical Information Systems, Spatial Analysis.

Zhaohui S. Qin, Professor. BS, Peking University, 1994; PhD, University of Michigan, 2000. High-

BIOSTATISTICS AND BIOINFORMATICS

throughput genomics analysis.

Benjamin Risk, Associate Professor. BA, Dartmouth College, 2003; MS, University of California, Berkeley, 2009; MS, Cornell University, 2014; PhD, Cornell University, 2015. Neuroimaging statistics, spatio-temporal processes, multivariate statistics, environmental statistics.

Jeffery Switchenko, Research Associate Professor. BA, Bowdoin College-Brunswick, 2006, PhD, Emory University, 2012. Cancer, spatial analysis, Bayesian.

Chang Su, Assistant Professor. BS, Sun Yat-sen University, 2018; PhD, Yale University, 2023. Statistical genetics, genomics, statistical methodology.

Lance A. Waller, Professor. BS, New Mexico State University, 1986; MS, Cornell University, 1990; PhD, 1992. Spatial statistics, environmental epidemiology, geographic information systems, Bayesian methods.

Laura Ward, Research Assistant Professor. BSPH, University of North Carolina, Chapel Hill, 2007; MSPH, Emory University, 2009. Collaborative biostatistics, study design, data management.

Julia Wrobel, Assistant Professor. BA, Swarthmore College, 2010; PhD, Columbia University, 2019. Functional data, structural MRI, neurobiology.

Rebecca Zhang, Research Associate Professor. BS, Fudan University, 1985; MS, Florida State University, 1990. Data management, statistical analysis.

Jointly Appointed Faculty

Karen Conneely, Associate Professor. BS University of Illinois, 1994; MA, Princeton University, 1997; PhD, University of Michigan, 2008.

Michael P. Epstein, Professor. BS, Duke University, 1996; MS, University of Michigan, 1998; PhD, 2002.

Vicki Stover Hertzberg, Professor. BS, Miami University, 1976; PhD, University of Washington, 1980. Categorical data analysis, clinical trials, reproductive epidemiology, statistical genetics.

Donald Lee, Associate Professor. BA, MA, Cambridge University, 2001; MS, Stanford University, 2008.

Christina Mehta, Research Associate Professor. BS, Emory University, 2000; MSPH, 2004, PhD, 2014. Women's interagency HIVE study, biostatistics.

Glen Satten, Professor, BA, Oberlin University, 1979; MA, Harvard University, 1981; PhD, Harvard University, 1985. Genetic association studies, genetic epidemiology, genomics, microbiome research

Jingjing Yang, Assistant Professor. PhD, Rice University, 2014. Bayesian Analysis, genetic association studies, genetic epidemiology, genomics

Adjunct Faculty

Zhengjia Nelson Chen, Adjunct Professor. BS, Peking University, 1995; MS, 1998; MS, University of Southern California, 2001; PhD, 2008. Cancer research, clinical trials.

Andrew N. Hill, Adjunct Lecturer. BS, University of Auckland (New Zealand), 1986; MS, 1987; PhD, University of Canterbury (New Zealand). US Centers for Disease Control and Prevention.

David Williamson, Adjunct Associate Professor. BS, Georgia Institute of Technology, 1973; MS, Georgia Southern College, 1978; MS, Virginia Polytechnic Institute and State University, 1980; PhD, Emory University, 1987. Agency for Toxic Substances and Disease Registry.

John Williamson, Adjunct Associate Professor. BS, Rensselaer Polytechnic Institute, 1986; MS, University of North Carolina-Chapel Hill, 1989; ScD, Harvard University, 1993.

Hao Wu, Professor. BS, Tsinghua University, 1996; MS, Iowa State University, 2000; MPH/PhD, Johns Hopkins University, 2010. Quantitative genetics and genomics analysis.

Tianwei Yu, Adjunct Professor. BS, Tsinghua University, 1997; MS, 2000; MS, University of California, 2004; PhD, 2005. Expression array/SNP array analysis

Biostatistics and Bioinformatics Course Descriptions

BIOS 500 (3) Statistical Methods I

FALL. This course is designed to teach students the fundamentals of applied statistical data analysis. Students successfully completing this course will be able to: choose appropriate statistical analyses for a variety of data types; perform exploratory data analyses; implement commonly used one and two-sample hypothesis testing and confidence interval methods for continuous variables; perform

tests of association for categorical variables; conduct correlation and simple linear regression analyses; produce meaningful reports of statistical analyses and provide sound interpretations of analysis results. Students will be able to implement the statistical methods learned using SAS and JMP software on personal computers.

BIOS 500L (1) Statistical Methods I (Laboratory)

FALL. The lab portion of BIOS 500 is designed with two purposes in mind: 1) to illustrate concepts and methods presented in the lectures using hands-on demonstrations and 2) to introduce SAS, a widely used statistical software package, as a data analysis tool. By the end of the semester, you should be able to produce and interpret statistical output for methods learned in BIOS 500 lecture.

BIOS 501 (4) Statistical Methods II with Laboratory

SPRING. Prerequisites: BIOS 500 or permission of instructor. This course is the follow-up to Biostatistical Methods I (BIOS 500). Students will apply many of the concepts learned in BIOS 500 in a broader field of statistical analysis: model construction. Topics covered include Linear Regression, Analysis of Variance, Logistic Regression and Survival Analysis. Students who successfully complete this course will have a deep understanding of many analytical methods used by public health researchers in daily life. BIOS 501 Lab is a component of this course.

BIOS 502 (2) Statistical Methods III

FALL. Prerequisites: BIOS 500 & BIOS 501 or permission of instructor. We start with data analytic methods not covered in BIOS 500 & BIOS 501 (Statistical Methods I & II). We then focus on multilevel modeling of intra- and inter-individual change. Other hierarchical models will also be examined to analyze other types of clustered data. As in the prerequisite courses, we will learn how to specify an appropriate model so that specific research questions of interest can be addressed in a methodologically sound way. Students will use SAS to perform the statistical analyses.

BIOS 505 (4) Statistics For Experimental Biolog

SPRING. Students outside of Biological and Biomedical Sciences must get permission from the instructor. Intended for PhD candidates in the biological and biomedical sciences. Introduces the most frequently used statistical methods in those fields, including linear regression, ANOVA, logistic regression, and nonparametric methods. Students learn the statistical skills necessary to read scientific articles in their fields, do simple analyses on their own, and be good consumers of expert statistical advice.

BIOS 506 (4) Foundations of Biostatistical Methods

FALL. Prerequisite: Multivariate Calculus (Calculus III) or permission of instructor. This course is a mathematically sophisticated introduction to the concepts and methods of biostatistical data analysis. The topics include descriptive statistics; probability; detailed development of the binomial, Poisson and normal distributions; sampling distributions; point and confidence interval estimation; hypothesis testing; a variety of one- and two-sample parametric and non-parametric methods for analyzing continuous or discrete data and simple linear regression. The course will also equip students with computer skills for implementing these statistical methods using standard software SAS and R.

BIOS 507 (4) Applied Regression Analysis

SPRING. This is the first regression analysis course in applied statistics designed for BIOS MPH students. Both theoretical and applied aspects of linear regression and generalized linear regression modeling will be covered in this course. The emphasis will be on applications. The first part of the course covers the following topics: simple linear regression, multiple linear regression, confounding and interaction, residual and influence diagnostics, variable transformations, multicollinearity, model selection and validation. The second part of the course includes: generalized linear models, including logistic regression, nominal and ordinal logistic regression, and Poisson regression. Scientific interpretation of results will be emphasized throughout the course. Students are expected to use R (or SAS if preferred), when necessary, for homework assignments and projects. Prerequisites:

BIostatISTICS AND BIOinformatics

Coursework in statistics up to and including an introduction to simple linear regression (BIOS 506 or equivalent). Familiarity with basic concepts of probability, statistical inference, and linear algebra (e.g., matrix calculation) is needed for successful completion of the course.

BIOS 508 (4) Biostatistical Methods

FALL. Prerequisites: Multivariate Calculus (Calculus III) and Linear Algebra. This course provides a mathematically sophisticated introduction to the concepts and methods of biostatistical data analysis. It aims to provide the students the skills to collaborate with investigators and statistical colleagues in the analysis of data from biomedical and public health studies and to communicate the results of statistical analyses to a broad audience. The topics include descriptive statistics; probability; detailed development of the binomial, Poisson and normal distributions and simulation of random variables from these distributions; sampling distributions; point and confidence interval estimation; simulation studies; hypothesis testing; power analysis and sample size calculations; a variety of one- and two-sample parametric and non-parametric methods for analyzing continuous or discrete data and resampling statistics. The course will also equip students with computer skills for implementing these statistical methods using standard statistical software SAS or R.

BIOS 509 (4) Applied Linear Models

SPRING. Prerequisites: BIOS 508 or permission of instructor. The course covers statistical methodology for the analysis of continuous outcome data, primarily from cross-sectional studies and designed experiments. We introduce the key matrix-based methods for estimation and inference based on the multiple linear regression model. Subsequently, topics include secondary hypothesis testing and restrictions, regression diagnostics, model selection, confounding and interaction, analysis of variance and covariance, and an introduction to random effects modeling. Students will also be introduced to logistic regression modeling for binary outcome data.

BIOS 510 (4) Intro. to Probability Theory

FALL. Prerequisites: Multivariate Calculus (Calculus III) or permission of instructor. Introduction to Probability, random variables, distributions, conditional distributions, expectations, moment generating functions, order statistics, and limiting distributions.

BIOS 511 (4) Introduction to Statistical Inference

SPRING. Prerequisites: BIOS 510 or permission of instructor. Fundamental concepts in statistical inference will be covered including: statistical models, sampling distributions, standard errors, mean square errors, method of moments, maximum likelihood estimation, asymptotic normality, confidence intervals, hypothesis tests, Wald tests, likelihood ratio tests, power analysis, p-values, multiple comparisons. Common frameworks for inference will be discussed including: parametric/non-parametric/Bayesian inference, the delta method, bootstrap, permutation tests.

BIOS 512 (4) Probability Theory I

FALL. Prerequisites: Multivariate Calculus (Calculus III) and Linear Algebra or permission of instructor. Introduction to Probability, random variables, distributions, conditional distributions, expectations, moment generating functions, order statistics, and convergence concepts.

BIOS 513 (4) Statistical Inference I

SPRING. Prerequisites: BIOS 512 or permission of instructor. Introduces the theory of parameter estimation, interval estimation, and tests of hypotheses. In this course, we emphasize the classical "frequentist" (i.e., Neyman-Pearson-Wald) approach to inference. As time permits, we briefly explore alternative paradigms of inference such as neo-Fisherian, Bayesian, and statistical decision theory.

BIOS 516 (1) Introduction to Large Scale Biomedical Data Analysis

FALL. Prerequisites: BIOS 501 or permission of instructor. This is the overview course for the Bioinformatics, Imaging and Genetics (BIG) concentration in the PhD program of the Department of Biostatistics and Bioinformatics. It aims to introduce students to modern high-dimensional biomedical data, including data in bioinformatics and computational biology, biomedical imaging,

and statistical genetics. This course will be co-taught by all BIG core faculty members, with each faculty member giving one or two lectures. The focus of the course will be on the data characteristics, opportunities and challenges for statisticians, as well as current developments and hot areas of the research fields of bioinformatics, biomedical imaging and statistical genetics.

BIOS 520 (2) Clinical Trials

SPRING. Prerequisites: BIOS 500 or BIOS 506 or permission of instructor. This course is intended to not only provide a basic grounding in all aspects of the conduct of clinical trials from the perspective of a biostatistician, but also teach students the state-of-the-art knowledge in clinical trials and help them find clinical trial related jobs in pharmaceutical companies, hospitals, oncology research institutes, etc. Topics of this course include generic drug development, new drug development, pre-clinical trial, the state-of-the-art designs for contemporary Phase I, II, and III clinical trials, protocol writing, hypothesis, methods of randomization, blinding, sample size determination, ethics, subject recruitment, data collection, quality control, monitoring outcomes and adverse events, interim analysis, data analysis, issues with data analysis, reporting, interpreting results, and current advances in clinical trials

BIOS 521 (2) Applied Survival Analysis

FALL. Prerequisites: BIOS 506, BIOS 507, BIOS 510, and BIOS 511 or permission of instructor. This course provides an introduction to statistical concepts and methods related to the analysis of survival data. Topics include survival functions, hazard rates, types of censoring and truncation, life tables, log-rank tests, Cox regression models, and parametric regression models. The emphasis is on practical implementation of standard methods using SAS or R and interpretation of results.

BIOS 522 (2) Survival Analysis Methods

FALL. Prerequisites: BIOS 508, BIOS 509, BIOS 512, and BIOS 513 or permission of instructor. This course aims to develop basic understanding of the analysis of time-to-event data. The concepts to be introduced include survival functions, hazard rates, right censoring, interval censoring, left truncation, and competing risks. Methods of focus are Kaplan-Meier estimates, log-rank tests, Cox proportional hazards regression models, and parametric regression models. Students will learn how to implement standard survival analysis methods using R and appropriately interpret results.

BIOS 524 (2) Analytic Meth/Infectious Disease

FALL/SPRING. Prerequisites: BIOS 506 and BIOS 510 or permission of instructor. Introduces dynamic and epidemiologic concepts particular to infectious diseases, including the elements of the infection process; transmission patterns, epidemic, endemic, micro- and macroparasitic diseases; zoonoses, basic reproduction number; dependent happenings; and direct and indirect effect of intervention.

BIOS 525 (2) Longitudinal and Multilevel Data Analysis

FALL. Prerequisites: BIOS 507 or permission of instructor. This course introduces students to regression techniques commonly used in analyzing longitudinal and multilevel data that are frequently encountered in biomedical and public health research. This course draws motivating examples from environmental and social epidemiology, health services research, clinical studies, and behavioral sciences. The course focuses on data analysis and interpretation. Students will gain practical experience using R for statistical computing.

BIOS 526 (3) Modern Regression Analysis

FALL. Prerequisites: BIOS 509 and BIOS 513 or permission of instructor. This course introduces students to modern regression techniques commonly used in analyzing public health data. Specific topics include: (1) parametric and non-parametric methods for modeling non-linear relationships (e.g., splines and generalized additive models); (2) methods for modeling longitudinal and multi-level data that account for within group correlation (e.g., mixed-effect models, generalized estimating equations); (3) Bayesian methods; and (4) shrinkage methods and bias-variance tradeoffs. This course draws motivating examples from environmental and social epidemiology,

BIOSTATISTICS AND BIOINFORMATICS

health services research, clinical studies, and behavioral sciences. The course provides a survey of advanced regression approaches with a focus on data analysis and interpretation. Students will gain an understanding of methods that will facilitate future independent and collaborative research for modern research problems. Students will gain practical experience using the R language for statistical computing.

BIOS 530 (2) Applied and Advanced Statistics in Observational Studies

SPRING. This class is designed to cover the concepts and implementations of up-to-date analytic methodologies and strategies in observational studies, and to equip the students with the mindset and essential tools to handle data from observational research either for prediction (statistical learning) or causal inference. Propensity score methods, establishing/validating prediction models, risk stratification, the guidance of Good Research Practice, etc. will be illustrated along with real-life projects and backed up by the recent literatures.

BIOS 531 (2) SAS Programming

FALL. Prerequisites: BIOS 500 & BIOS 501 or permission of instructor. This class is designed to help students master statistical programming in SAS. Students in this class will develop programming style and skills for data manipulation, report generation, simulation and graphing. This class does not directly satisfy any competencies as defined by the Department of Biostatistics and Bioinformatics, the Rollins School of Public Health or the Council on Education for Public Health (CEPH). That being said, SAS is a primary data analysis and data management software system in use worldwide, particularly in public health settings. Students who master the skills offered in this course will have a much easier time completing the work for their thesis and will find themselves more ready for a public health career with a more analytical bent.

BIOS 532 (2) Statistical Computing

SPRING. Prerequisite: BIOS 506, BIOS 510, and BIOS 531 or permission of instructor. Programming style and efficiency, data management and data structures, hardware and software, maximum likelihood estimation, matrix methods and least squares, Monte Carlo simulation, pseudo-random number generation, bootstrap, and UNIX-based computing and graphical methods.

BIOS 534 (3) Machine Learning

SPRING. Prerequisites: Multivariate Calculus (Calculus III), Linear Algebra, and Python programming. This course covers fundamental machine learning theory and techniques. The topics include basic theory, classification methods, model generalization, clustering, and dimension reduction. The material will be conveyed by a series of lectures, homeworks, and projects.

BIOS 540 (2) Introduction to Bioinformatics

FALL/SPRING. Prerequisites: BIOS 500, BIOS 501, or BIOS 506 or permission of the instructor. This course is an introduction to the field of Bioinformatics for students with a quantitative background. The course covers biological sequence analysis, introductions to genomics, transcriptomics, proteomics and metabolomics, as well as some basic data analysis methods associated with the high-throughput data. In addition, the course introduces concepts such as curse of dimensionality, multiple testing and false discovery rate, and basic concepts of networks.

BIOS 544 (2) Introduction to R (Non-BIOS Student)

FALL/SPRING. For non-BIOS Students Only. The goal of the course is to will provide an introduction to R in organizing, analyzing, and visualizing data. Once you've completed this course you'll be able to enter, save, retrieve, summarize, display and analyze data.

BIOS 545 (2) R Programming (BIOS Students Only)

SPRING. For BIOS Students Only. This course covers the basic contents of R programming with applications on statistical data analysis. Topics include data types, language syntax, graphics packages, debugging, the tidy verse, efficient programming and package creation.

BIOS 555 (2) High Throughput Data Analysis Using R & Bioconductor

FALL. Prerequisites: BIOS 501 or equivalents and basic programming in R or permission of the instructor. This course covers the basics of microarray and second-generation sequencing data analysis using R/BioConductor and other open source software. Topics include gene expression microarray, RNA-seq, ChIP-seq and general DNA sequence analyses. We will introduce technologies, data characteristics, statistical challenges, existing methods and potential research topics. Students will also learn to use proper Bioconductor packages and other open source software to analyze different types of data and deliver biologically interpretable results.

BIOS 560R (3) Spec Topics in Biostatistics

FALL/SPRING. A faculty member offers a new course on a current topic of interest for both PhD and Master’s students.

BIOS 570 (2) Introduction to Statistical Genetics

FALL/SPRING. Prerequisites: BIOS 506 and EPI 530 or permission of the instructor. This is an introductory course for graduate students in Biostatistics, Bioinformatics, Epidemiology, Genetics, Computational Biology, and other related quantitative disciplines. The course will conduct a comprehensive survey of statistical methods for analysis of family- and population-based genetic data, including classical linkage analysis, population-based and family-based association analysis, genome wide association studies (GWAS) and analysis of next-generation sequencing data. Because this course serves as a prerequisite to BIOS 770 Advanced Statistical Genetics, the focus of the course will be on identifying statistical problems, relating genetic concepts to statistical model assumptions, introducing the latest statistical methods, and ultimately preparing students for in-depth understanding/research of statistical methodologies on analysis of genetic data.

BIOS 580 (2) Statistical Practice I

FALL. Course only for BIOS MPH and MSPH students. This course will cover topics dedicated to preparing students for collaborations with non-statisticians in public health and biomedical projects. Covered topics include best practices in data analysis (data inspection, summarization, exploration, visualization, hypothesis formulation, analysis method selection, result interpretation, result presentation etc.), and professionalism as a collaborative statistician. The students will work individually or together in small groups on projects and conduct peer review for each other’s work. In addition, each student will complete a series of milestones for setting up individual capstone/thesis project to be completed in the Spring semester.

BIOS 581 (2) Statistical Practice II

SPRING. The purpose of the course is to help students with their capstone project in project management, documentation, manuscript writing, and oral/poster presentations while they conduct their independent project with their individual BIOS advisors. Students will learn how to create research journals to document their research progress, conduct best practice on coding, peer-review each other’s work, and write journal articles section by section through lectures and homework assignments. They will develop a manuscript based on their capstone project. At the end of the semester, each student will give an oral presentation on his/her capstone project. Each student will also make a poster on his/her capstone project. Students will receive feedbacks from their peers and instructors to improve their writing and presentation skills.

BIOS 584 (3) Python Programming (Non-BIOS Student)

FALL. This course will provide a pragmatic and hands-on introduction to the Python programming language, with a focus on practical applications and projects, rather than theoretical topics. We cover data types, control flow, object-oriented programming, and graphical user interface-driven applications. Students will learn to work with packages, data structures, and tools for data science and cybersecurity. The examples and problems used in this course are drawn from diverse areas such as text processing, simple graphics creation and image manipulation, HTML and web programming, and genomics.

BIOSTATISTICS AND BIOINFORMATICS

BIOS 585 (3) Python Programming

FALL/SPRING. This course will provide a pragmatic and hands-on introduction to the Python programming language, with a focus on practical applications and projects, rather than theoretical topics. We cover data types, control flow, object-oriented programming, and graphical user interface-driven applications. Students will learn to work with packages, data structures, and tools for data science and cybersecurity. The examples and problems used in this course are drawn from diverse areas such as text processing, simple graphics creation and image manipulation, HTML and web programming, and genomics.

BIOS 590R (1) Seminar In Biostatistics

FALL/SPRING. Features invited speakers, departmental faculty, students, and others who discuss special topics and new research findings.

BIOS 591P (3) Biostatistics Methods II

SPRING. Prerequisites: BIOS 500 or permission of instructor. For EPI students Only taken in the spring semester of their first year. The course covers fundamental concepts in applied simple and multiple linear regression analyses, one- and two-way analysis of variance and binary logistic regression. Concepts in survival analysis will also be introduced. Students will learn when and how to apply these methods. The emphasis will be on practical data analysis skills rather than statistical theory; however, wherever possible and feasible, mathematical details of regression models will be presented. In-class data analysis examples will employ SAS and R software. Homework assignments, quizzes and exams will include data analyses using SAS and R, as well as other questions designed to reinforce concepts and assess foundational competencies. Teaching assistant office hours will consist of organized review/recitation sessions, and will also include opportunities for student questions.

BIOS 595 (0) Applied Practice Experience

FALL/SPRING/SUMMER. An Applied Practice Experience (APE) is a unique opportunity that enables students to apply practical skills and knowledge learned through coursework to a professional public health setting that complements the student's interests and career goals. The APE must be supervised by a Field Supervisor and requires approval from an APE Advisor designated by the student's academic department at RSPH.

BIOS 597R (4) Directed Study

FALL/SPRING. Provides an in-depth exposure to specific topics not covered in regular courses, for example, statistical genetics and specialized experimental designs.

BIOS 599R (2) Thesis

FALL/SPRING/SUMMER. Master's thesis research.

***INFO/DATA 521 (2) Databases Using SQL**

FALL/SPRING. Prerequisites: BIOS 500 or permission of instructor. In this course, you'll learn about the basic structure of relational databases and how to read and write simple and complex SQL statements and advanced data manipulation techniques. By the end of this course, you'll have a solid working knowledge of structured query language. You'll feel confident in your ability to write SQL queries to create tables; retrieve data from single or multiple tables; delete, insert, and update data in a database; and gather significant statistics from data stored in a database. This course will teach key concepts of Structured Query Language (SQL), and gain a solid working knowledge of this powerful and universal database programming language. This course provides a comprehensive introduction to the language of relational databases: Structured Query Language (SQL). Topics covered include: Entity-Relationship modeling, the Relational Model, the SQL language: data retrieval statements, data manipulation and data definition statements. Homework will be done using databases running in MySQL which students install on their machines and proc SQL in SAS. Students develop a real-

world database project using MySQL during the course. INFO course prefixes are transitioning to DATA prefixes effective Spring 2024.

***INFO/DATA 530 (2) Introduction to Geographical Information Systems**

FALL/SPRING. The course introduces the use of geographic information systems (GIS) in the analysis of public health data. We develop GIS skills through homework, quizzes, and a case study. Specific skills include map layouts, visualization, and basic GIS operations such as buffering, layering, summarizing, geocoding, digitizing and spatial queries. INFO course prefixes are transitioning to DATA prefixes effective Spring 2024.

***INFO/DATA 532 (2) Advanced Geographical Information Systems**

FALL/SPRING. Prerequisites: INFO 530 or permission of the instructor. The course continues the use of geographic information systems (GIS) in the analysis of public health data and adds more advanced features. We develop GIS skills through homework, quizzes and a final project, and particularly build upon the skills learned in INFO 530 such as map layouts, visualization, basic spatial statistics, and basic GIS operations such as buffering, layering, summarizing, geocoding, digitizing and spatial queries. We add new topics such as raster analysis open source GIS, (qgis), geo databases, story maps, and making maps in R. INFO course prefixes are transitioning to DATA prefixes effective Spring 2024.

***INFO/DATA 534 (2) Applied Machine Learning**

FALL/SPRING. Prerequisites: BIOS 500 and (BIOS 544 or BIOS 545 or EPI 534) or permission of instructor. The elective course gives an introduction to machine learning techniques and theory, with a focus on its use in practical applications. The Applied Machine Learning course teaches you a wide-ranging set of techniques of supervised and unsupervised machine learning approaches using R as the programming language. INFO course prefixes are transitioning to DATA prefixes effective Spring 2024.

***INFO/DATA 550 (2) Data Science Toolkit**

FALL/SPRING. Prerequisites: BIOS 544 or BIOS 545, R programming experience needed or permission of the instructor. This course is an elective for Masters and PhD students interested in learning some fundamental tools used in modern data science. Together, the tools covered in the course will provide the ability to develop fully reproducible pipelines for data analysis, from data processing and cleaning to analysis to result tables and summaries. By the end of the course students will have learned the tools necessary to: develop reproducible workflows collaboratively (using version control based on Git/GitHub), execute these workflows on a local computer (using command line operations, RMarkdown, and GNU Makefiles), execute the workflows in a containerized environment allowing end-to-end reproducibility (using Docker), and execute the workflow in a cloud environment (using Amazon Web Services EC2 and S3 services). Along the way, we will cover a few other tools for data science including best coding practices, basic python, software unit testing, and continuous integration services. INFO course prefixes are transitioning to DATA prefixes effective Spring 2024.

***INFO/DATA 555 (2) Current Topics in Data Science**

SPRING. This course is the culminating experience of the data science certificate program and is to be taken in the spring semester of second year. The course must be taken by certificate-enrolled students in addition to any degree-required integrated learning experience (ILE) requirements. The course provides a review of current topics of interest in data science, helps prepare students for the data science job market, and involves a culminating data science project that relates to students' degree-required ILE. The first several meetings of this course focus on helping students identify suitable data science products and planning for the skills and tools that are needed to complete the ILE-related requirements for the data science certificate. Subsequent classes will cover modern topics in data science (e.g., R Shiny, communicating with diverse audiences, software unit testing, data sharing and privacy) and lectures on preparations for applying for data science-related jobs. INFO course prefixes are transitioning to DATA prefixes effective Spring 2024.

BIOSTATISTICS AND BIOINFORMATICS

***INFO/DATA 556 (2) Data Visualizations in Public Health**

FALL/SPRING. This course is all about data visualization in public health: the art and science of turning data into readable and interpretable graphics. We will explore how to design and create data visualizations based on real world data available and tasks to be achieved. INFO course prefixes are transitioning to DATA prefixes effective Spring 2024.

BIOS 707 (4) Advanced Linear Models

SPRING. Generalized inverse of a matrix; vectors of random variables; multivariate normal distribution; distribution theory for quadratic forms of normal random variable; fitting the general linear models by least squares; design matrix of less than full rank; estimation with linear restrictions; estimable functions; hypothesis testing in linear regression; and simultaneous interval estimation. Prerequisites: BIOS 507, BIOS 511, and a course in matrix algebra.

BIOS 709 (4) Generalized Linear Models

SPRING. Studies analysis of data using generalized linear models, as well as models with generalized variance structure. Parametric models include exponential families such as normal, binomial, Poisson, and gamma. Iterative reweighted least squares and quasi-likelihood methods are used for estimation of parameters. Methods for examining model assumptions are studied. Generalized estimating equations (GEE) and quadratic estimating equations are introduced for problems where no distributional assumptions are made about the errors except for the structure of the first two moments. Illustrations with data from various basic science, medicine, and public health settings. Prerequisite: BIOS 511 and BIOS 707

BIOS 710 (4) Probability Theory II

FALL. Axioms of probability, univariate and multivariate distributions, convergence of sequences of random variables, Markov chains, random processes, martingales.

BIOS 711 (4) Statistical Inference II

SPRING. Examines the fundamental role of the likelihood function in statistical inference, ancillary and sufficient statistics, estimating functions, and asymptotic theory. This course presents conditional, profile and other approximate likelihoods; various ancillary concepts; generalizations of Fisher information in the presence of nuisance parameters; optimality results for estimating functions; and consistency/asymptotic normality of maximum likelihood and estimation function-based estimators. It briefly discusses alternative approaches to inference including Bayesian, Likelihood Principle, and decision theory. Prerequisite: BIOS 710.

BIOS 722 (2) Advanced Survival Analysis

IRR. In-depth coverage of theory and methods of survival analysis, including censoring patterns and theory of competing risks, nonparametric inference, estimating cumulative hazard functions, Nelson estimator, parametric models and likelihood methods, special distributions, two sample nonparametric tests for censored data, power considerations and optimal weights, sample size calculations for design purposes, proportional hazards model, partial likelihood, parameter estimation with censored data, time-dependent covariates, stratified Cox model, accelerated failure time regression models, grouped survival analysis, multivariate survival analysis, and frailty models. Prerequisite: BIOS 510, BIOS 511, BIOS 522.

BIOS 723 (4) Stochastic Processes

IRR. Provides dual coverage of the theory and methods for dealing with the diversity of problems involving branching processes, random walks, Poisson processes, and birth and death processes, Gibbs sampling, martingale counting processes, hidden Markov chains, inference on semi-Markov chains and chain of events modeling. Applications will be drawn from the biological sciences, including the theory of epidemics, genetics, survival analysis, and models of birth-migration-death, and the design and analysis of HIV vaccine trials. Prerequisites: Matrix algebra and BIOS 710.

BIOS 724 (2) Analytic Methods for Infectious Disease Interventions

IRR. Advanced analytic, statistical, and epidemiologic methods particular to infectious diseases including analysis of infectious disease data and evaluation of intervention. Prerequisites: BIOS 511.

BIOS 726 (2) Applied Multivariate Analysis

IRR. This course investigates multivariate techniques. The main subject areas covered are inferences about multivariate means, multivariate regression, multivariate analysis of variance (MANOVA) and covariance (MACOVA), principal components, factor analysis, discriminant analysis and classification, and cluster analysis. Appropriate programs such as SAS and S-PLUS will be demonstrated. Prerequisite: BIOS 507 and BIOS 511.

BIOS 731 (2) Advanced Statistical Computing

This course covers the theories and applications of some common statistical computing methods. Topics include Markov chain Monte Carlo (MCMC), hidden Markov model (HMM), Expectation-Maximization (EM) and Minorization-Maximization (MM), and optimization algorithms such as linear and quadratic programming. The class has two main goals for students: (1) learn the general theory and algorithmic procedures of some widely used statistical models; (2) develop fluency in statistical programming skills. The class puts more emphasis on implementation instead of statistical theories. Students will gain computational skills and practical experiences on simulations and statistical modeling. This course requires significant amount of programming. Each set of homework involves the implementation of certain algorithms using high-level programming language (such as Matlab or R).

BIOS 732 (2) Advanced Numerical Methods

IRR. The course covers topics in traditional numerical analysis specifically relevant to statistical estimation and inference. The topics covered include numerical linear algebra, the root finding problem (maximum likelihood) methods such as IRLS, Newton-Raphson, and EM algorithm, and Bayesian techniques for marginalization and sampling for use in statistical inference (MCMC methods). Additional topics may include numerical integration and curve fitting. Prerequisites include BIOS 532, BIOS 710 and BIOS 711, or permission of the instructor. BIOS 711 may be taken concurrently.

BIOS 735 (2) Estimating Function Theory

FALL. Examines topics in the theory of estimating functions. This course presents measures of efficiency of estimating functions; methods to produce efficient estimating functions using orthogonal projection theory; modern methods to reduce the sensitivity of an estimating function to nuisance parameters; artificial likelihood functions to accompany estimating functions; and model selection issues. Applications from biomedical studies are used to illustrate the concepts discussed in class. Prerequisites: BIOS 711 or permission of instructor; some knowledge of statistical computing will be needed to complete the final project.

BIOS 736 (2) Stats Analy W/Missing & Mismeasured

IRR. The goal of the course is to introduce the concepts and methods of analysis for missing data. Topics will include methods for distinguishing ignorable and non-ignorable missing data mechanisms, single and multiple imputation, hot-deck imputation. Computer intensive methods will be used. Prerequisites: BIOS 511 and PhD Biostatistics student.

BIOS 737 (2) Spatial Analysis Of Public Health Data

IRR. This course will familiarize students with statistical methods and underlying theory for the spatial analysis of georeferenced public health data. Topics covered include kriging and spatial point processes. In addition, review recent computational advances for applying these methods. Prerequisites: BIOS 506, BIOS 507, BIOS 510, BIOS 511.

BIOSTATISTICS AND BIOINFORMATICS

BIOS 738 (2) Bayesian & Empirical Bayes Methods

IRR. Includes Bayesian approaches to statistical inference, point and interval estimation using Bayesian and empirical Bayesian methods, representation of beliefs, estimation of the prior distribution, robustness to choice of priors, conjugate analysis, reference analysis, comparison with alternative methods of inference, computational approaches, including Laplace approximation, iterative quadrature, importance sampling, and Markov Chain Monte Carlo (Gibbs sampling). Various applications such as small area estimation, clinical trials and other biomedical applications will be used as examples. Prerequisite: BIOS 511.

BIOS 739 (2) Longitudinal Data Analysis

IRR. Prerequisite: BIOS 510 and BIOS 511. Focuses on design considerations, exploratory data analysis, general linear models, parametric models for covariance structure, generalized linear models, analysis of variance, transition models, and missing values.

BIOS 745R (2) Biostatistical Consulting

FALL. The first part of the course is dedicated to preparing students to act as consultants through discussions of consulting models, interpersonal communication, ethics, common client types, time and financial management and other issues. This course is also designed to give students some practical experience as a biostatistical consultant. Students will meet with clients, analyze data sets and produce summary reports.

BIOS 760R (4) Advanced Topics in Biostatistics

FALL/SPRING. A faculty member offers a new course on a current topic of interest for PhD students.

BIOS 761 (4) Causal Inference

FALL/SPRING. This course provides a survey of modern topics in causal inference. Fundamental concepts in causal inference will be covered including: counterfactual random variables, assessing identifiability of causal effects, graphical frameworks, Gcomputation, inverse probability of treatment weighting, methods for efficient, doubly (multiply) robust estimation of causal effects, and causal mediation. Where possible, the course emphasizes the use of modern regression (e.g., machine learning) in causal effect estimation and provides an applied introduction to this area is provided as well.

BIOS 770 (3) Statistical Methods in Human Genetics

FALL/SPRING. This course provides a comprehensive survey of the statistical methods that have been recently developed for the designs and analysis of genetic association studies. Specific topics include genome-wide association studies, likelihood inference and EM algorithm, case-control sampling and retrospective likelihood, secondary phenotypes in case-control studies, haplotypes and untyped SNPs, population stratification, meta-analysis, multiple testing, winner's curse, copy number variants, next-generation sequencing studies, rare variants and trait-dependent sampling.

BIOS 777 (1) How To Teach Biostatistics

FALL. Prepares students for teaching introductory level courses in biostatistics. The topics discussed are: syllabus development, lecturing, encouraging and managing class discussion, evaluating student performance, test and examinations, cheating, the role of the teaching assistant, teacher-student relationships, teaching students with weak quantitative skills, teaching students with diverse backgrounds, teaching health sciences students, teaching medical students, use of audio-visual techniques, and use of computers. Each student is required to teach a certain subject to the other students and the instructor, followed by a discussion of presentation strengths and weaknesses

BIOS 780R (1) Research Methods in Biostatistics

FALL/SPRING/SUMMER. Provide practical skills and knowledge to complete a PhD dissertation in Biostatistics and to introduce students to the research of BIOS faculty. Students will become familiar with the process of PhD research in biostatistical methods.

BIOS 790R (1) Advanced Seminar In Biostatistics

FALL/SPRING. Invited speakers, faculty, and advanced students discuss special topics and new research findings.

BIOS 795R (9) Pre-Candidacy Research

Research pertaining to a dissertation and preparing for the proposal.

BIOS 797R (9) Directed Study

FALL/SPRING/SUMMER. Provides an in-depth exposure to specific topics not covered in regular courses, for example, statistical genetics and specialized experimental designs.

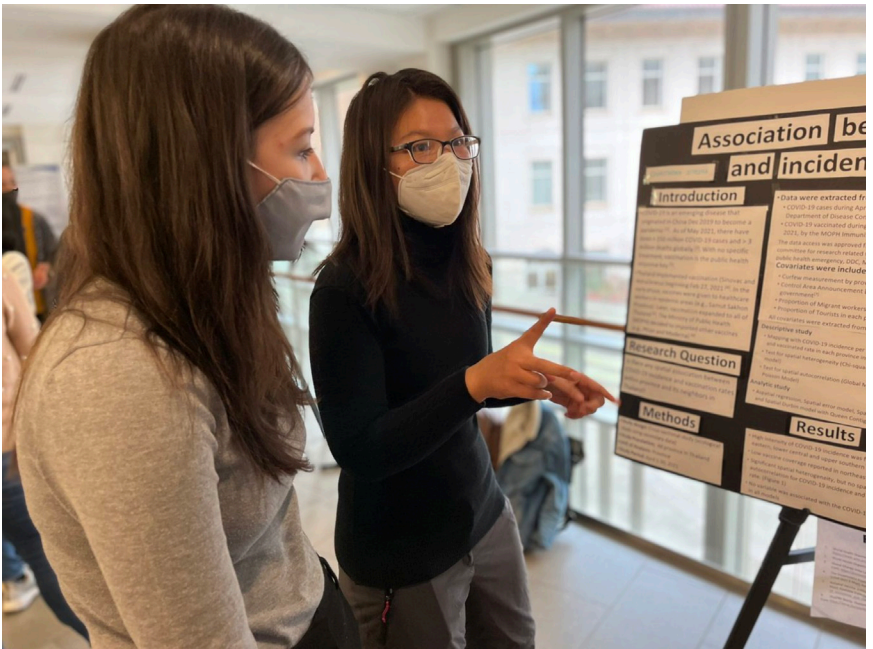
BIOS 798R (9) Special Projects

FALL/SPRING/SUMMER. Involves intern-like participation at advanced levels on specific scholarly, research, or developmental projects. Students assume independent roles as statistical consultants and collaborators in a variety of research settings.

BIOS 799R (9) Dissertation

FALL/SPRING/SUMMER. Research pertaining to a dissertation and preparing for the defense.

**Prefixes will be INFO for Fall 2023 and will permanently change to DATA beginning Spring 2024.*



ENVIRONMENTAL HEALTH

Gangarosa Department of Environmental Health

<https://www.sph.emory.edu/departments/eh>

Yang Liu, Gangarosa Distinguished Professor and Chair

The Gangarosa Department of Environmental Health (GDEH) examines the interface between human health and the environment across molecular to planetary scales. The GDEH offers three MPH programs: MPH in Environmental Health, MPH in Global Environmental Health and MPH in Environmental Health and Epidemiology. Students will learn to examine health effects associated with chemical, physical, and microbial exposures across multiple environmental media. Many disciplines contribute to recognizing, assessing, and controlling environmental risks, ranging from epidemiology to toxicology, from microbiology to engineering, from exposure science to medicine, from biostatistics to machine learning, and from policy analysis to economics.

At Rollins, environmental health education reaches beyond the classroom. Students engage with faculty and community members to actively learn from locally run non-profits, governmental agencies, and multi-national research projects. Our faculty's diverse expertise is reflected in their teaching and research in: air pollution, climate change, infectious disease ecology, ecological and land use changes, pesticides and other chemicals, endocrine disruption, gene-environment interactions/epigenetics/environmental "-omics", children's environmental health, health interventions, policy, and water, sanitation, and hygiene (WASH).

Through required coursework, real world work experiences for the Applied Practice Experience (APE), and a final Integrated Learning Experience (ILE) project, the MPH programs equip students with the skills to tackle the environmental health challenges of the future. In addition, Atlanta offers an unparalleled selection of opportunities in environmental health.

Interdepartmental Programs

The Gangarosa Department of Environmental Health offers and administers several interdepartmental programs. The Global Environmental Health (GEH) MPH is a joint program with the GDEH and the Hubert Department of Global Health. The Environmental Health and Epidemiology (EH-EPI) MPH is a joint program with the GDEH and the Department of Epidemiology. See the Interdepartmental Program section in this catalog for details.

The department also participates in several dual-degree programs with several schools and programs including the Nell Hodgson Woodruff School of Nursing (MPH/MSN), the Emory University School of Law (MPH/JD), the Emory University School of Medicine (MPH/MD) and Physician Assistant Program (MPH/PA), and the Laney Graduate School (MPH/PhD). Check the Rollins website for the complete list. A five-year bachelor's/master's degree (BS/MPH) is offered through the Emory College Department of Environmental Sciences and the GDEH. Students enrolled in Emory College can earn a Bachelor of Science and Master of Public Health in five years. See the Interdepartmental Program and Dual Degree Program sections in this catalog for details.

MPH in Environmental Health

The MPH in Environmental Health provides a uniquely interdisciplinary approach to examining the chemical, physical and microbial hazards that occur in the home, workplace and general environment. Our distinguished faculty work to ensure students are well equipped with both research- and practice-based skills to tackle the most pressing environmental health threats of the future.

Admission Requirements for the MPH in Environmental Health Program

Applicants to the EH program should have completed at least one course in college-level biology and chemistry; college-level statistics, calculus, and organic chemistry are also recommended. Applicants may apply without biology and chemistry but may be asked to take them prior to matriculating in the program if accepted. GRE or MCAT scores are optional.

Requirements

Six competency requirements are identified as central to the environmental health curriculum: an understanding of major environmental hazards, exposure science, toxicology, epidemiology, environmental health policy, and risk assessment. Required coursework corresponds to these competency areas; a minimum of 42 credits are required to graduate. Additionally, an Applied Practice Experience (APE) and Integrated Learning Experience (ILE) capstone project and are required.

Required MPH Core Courses

Course Number	Course Title	Credit Hours
PUBH 500	Introduction to Public Health	0
PUBH 501	Interprofessional Education and Public Health Leadership	0
BIOS 500/BIOS 500L	Statistical Methods I with lab	4
BSHES 500	Behavioral and Social Sciences in Public Health	2
EPI 530	Epidemiologic Methods I	4
GH 500	Critical Issues in Global Health	2
HPM 500	Introduction to the US Health Care System	2
Total Number of Core Credits		14

Required Courses for the MPH in Environmental Health

Course Number	Course Title	Credit Hours
EH 501	Introduction to Environmental Health	2
EH 510	Foundation of Exposure Science	2
EH 520	Human Toxicology	3
EH 524	Risk Assessment I	2
EH 530 or	Environmental Epidemiology	2
EHS 747/EPI 747	Advanced Environmental Epidemiology	2
EH 570	Environmental Health Law and Policy	2
EH 591	Integrated Learning Experience in EH, Part 1	2
EH 592	Integrated Learning Experience in EH, Part 2	2
EH 595	Applied Practice Experience	0
Electives		9+
Total Number of Credits for the EH MPH		42

BIOS 501, Statistical Methods II w/lab, spring, 4 credits is strongly recommended for EH MPH students.

Electives: Students take electives (non-required classes) to attain the minimum number of credits required for the degree. Students may enroll in classes in RSPH or other graduate-level classes at other Emory schools or via the [ARCHE program](#) (with permission) to enhance their interests and skills. Review this catalog, the GDEH course web page, and/or the Emory Course Atlas for course descriptions.

Integrative Learning Experience

For the culmination of their educational experience, students work with a faculty adviser or field mentor to design an Integrative Learning Experience that demonstrates the student's mastery of an environmental health topic relevant to their interests and career objectives. Related coursework includes:

Course Number	Course Title	Credit Hours
EH 591	Integrated Learning Experience in EH, Part 1	2
EH 592	Integrated Learning Experience in EH, Part 2	2

MPH in Global Environmental Health

See Interdisciplinary Program section for information

MPH in Environmental Health-Epidemiology

See Interdisciplinary Program section for information

Environmental Health Sciences PhD Program

The Doctor of Philosophy (PhD) in Environmental Health Sciences (EHS) program is offered through the Laney Graduate School at Emory University and housed in the Gangarosa Department of Environmental Health at the Rollins School of Public Health. The PhD program in Environmental Health Sciences (EHS) provides students with interdisciplinary training to better understand the impact of the environment on human health and disease. Students in the program have a wide range of unique opportunities for research and education through the participating departments across campus and the numerous health agencies affiliated with the program. Further, the program aims to produce a unique cadre of future leaders in the field of environmental health sciences who have expertise in both laboratory- and population-based research. Upon graduation, EHS students will have received comprehensive training in the EHS core areas of Exposure Science, Biological Mechanisms of Susceptibility and Disease, and Environmental Determinants of Population Health.

Director of Graduate Studies: W. Michael Caudle, Research Associate Professor

Contact: ehsphd@emory.edu.

Visit <http://www.gs.emory.edu/> for additional information and application instructions. **Do not apply for doctoral programs through SOPHAS.**

Faculty

Dana B. Barr, Professor. BA, Brenau College, 1987; PhD, Georgia State University, 1994.

Biomarkers, biomonitoring, exposure assessment, analytic chemistry, pesticides, and other hazards.

W. Michael Caudle, Research Associate Professor and Director of Graduate Studies. BS, Colorado State University, 1998; PhD, Emory University, 2007. Neurotoxicology.

Thomas F. Clasen, Rose Salamone Gangarosa Professor in Sanitation and Safe Water. BA, St. Mary's University of Minnesota, 1978; JD, Georgetown University Law Centre, 1981; MSc, London School of Hygiene and Tropical Medicine, 2002; PhD, University of London, 2006. Sanitation and safe water.

Jonny Crocker, Research Assistant Professor. BS, Tufts University, 2007; MSc, University of North Carolina, Chapel Hill, 2011; PhD, University of North Carolina, Chapel Hill, 2016. Maternal and infant health, public health.

Stefanie Ebelt, Professor. BSc, University of British Columbia, 1997; MSc, University of British Columbia, 2000, ScD, Harvard University, 2004. Air pollution epidemiology.

Stephanie Eick, Assistant Professor. Michigan State University, 2014; MPH, Emory University, 2016; PhD, University of Georgia, 2019. Epidemiology.

Christine Ekenga, Assistant Professor. BA, Northwestern University, 2003; MPH, San Diego State University, 2007; PhD, New York University, 2011. Environmental and occupational health, chronic disease epidemiology, health disparities, disasters and public health, community engagement.

Todd M. Everson, Assistant Professor. BS, Colorado State University, 2006; MPH, Oregon Health and Science University, 2011; PhD, University of South Carolina, 2015. Bioinformatics, environmental health, epidemiology, epigenetics, maternal and child health, reproductive health.

Matthew C. Freeman, Professor. BA, Wesleyan University, 2000; MPH, Emory University, 2005; PhD, London School of Hygiene and Tropical Medicine, 2011. Global safe water and sanitation.

Xin Hu, Assistant Professor. BEng, Tsinghua University, 2007; PhD, University of Iowa, 2013. Toxicology.

Mitchel Klein, Emeritus Research Associate Professor. BA, State University of New York, 1979; MAT, Indiana University, 1986; PhD, Emory University, 1998. Epidemiologic methods.

Donghai Liang, Assistant Professor. BS, Peking University, 2012; MPH, Yale University, 2014; PhD, Emory University, 2018. Air pollution, climate and health, exposure assessment, exposome.

Yang Liu, Gangarosa Distinguished Professor and Department Chair. BS, Tsinghua University, 1997; MS, University of California at Davis 1999; PhD, Harvard University, 2004. Modeling of the spatial and

temporal distribution of air pollutants; satellite applications in public health research; climate change health impacts, machine learning.

Carmen J. Marsit, Rollins Distinguished Professor and Executive Associate Dean for Faculty Affairs and Research Strategy. BS, Lafayette College, 2000; PhD, Harvard University, 2004. Epigenetics, genomics, children's environmental health, metals, biomarkers, system biology, cancer.

Maya Nadimpalli, Assistant Professor. BA&Sc, McGill University, 2010; M.S. University of North Carolina at Chapel Hill, 2012; PhD, University of North Carolina at Chapel Hill, 2015. Antibiotic resistance, community based research, food safety, genomics, safe water, sanitation and hygiene, surveillance, vector-borne/zoonotic diseases.

Parinya Panuwet, Research Assistant Professor. BS, Chiang Mai University, 2001; MS, Chiang Mai University, 2003; PhD, Chiang Mai University, 2009; MSc, University of London, 2019. Exposure assessment strategies of toxic compounds in humans and the environment.

Melanie Pearson, Associate Research Professor. BA, Clemson University, 1996; MA, University of Missouri-Columbia, 2001; PhD, University of Missouri-Columbia, 2004. Cognitive Neuroscience.

P. Barry Ryan, Professor. BS, University of Massachusetts, 1973; MS, University of Chicago, 1975; PhD, Wesleyan University, 1979. Environmental exposure assessment, community-based environmental epidemiology, environmental chemistry with emphasis on environmental fate and transport.

Amina Salamova, Assistant Professor. BS, Baku State University, Azerbaijan, 1998; MS, Baku State University, Azerbaijan, 2000; MS, Indiana University, 2004; PhD, Indiana University, 2011. Analytical chemistry, exposure to chemical contaminants and their effects on human health.

Jeremy A. Sarnat, Associate Professor and Director of Graduate Studies. BA, University of Michigan, 1990; MS, Indiana University, 1992; MS, Harvard University School of Public Health, 1998; ScD, 2001. Air pollution, exposure assessment, and epidemiology.

Noah Scovronick, Assistant Professor. BSc, Emory University, 2003; MSc, University of Cape Town, 2006; MS, London School of Hygiene and Tropical Medicine, 2009; PhD, London School of Hygiene and Tropical Medicine, 2014. Climate change.

N. Kyle Steenland, Professor and Georgia Cancer Coalition Distinguished Scholar. BA, Stanford University, 1968; MA, PhD, State University of New York-Buffalo, 1974; MS, PhD, University of Pennsylvania, 1985. Environmental and occupational epidemiology.

Paige E. Tolbert, Emerita Professor. AB, Harvard University, 1979; MSPH, University of North Carolina-Chapel Hill, 1986; PhD, 1989. Air pollution, environmental health, epidemiology

Douglas Walker, Associate Professor. BS, University of Massachusetts Dartmouth, 2009; PhD, Tufts University, 2017. Environmental health, toxicology.

Marlene Wolfe, Assistant Professor. BA, Stanford University, 2011; MSc, London School of Hygiene & Tropical Medicine, 2018; PhD, Tufts University, 2019. Environmental health, epidemiology, infectious disease, water sanitation and hygiene.

Qiang Zhang, Research Associate Professor. MD, Harbin Medical University, 1995; MS, Rensselaer Polytechnic Institute, 2003; PhD, University of Connecticut, 2003. Computational modeling of biological systems to understand and predict adverse health outcomes of environmental perturbations.

Jointly Appointed Faculty

Robert F. Breiman, Professor. BS, University of Arizona, 1975, MD, 1979. Hubert Department of Global Health.

Bethany Caruso, Assistant Professor. BA, Wesleyan University, 2003; MPH, Emory University, 2009; PhD, Emory University, 2015. Hubert Department of Global Health.

Howard H. Chang, Associate Professor. BSc, University of British Columbia, 2004; PhD, Johns Hopkins University, 2009. Rollins School of Public Health, Department of Biostatistics and Bioinformatics.

Anne Dunlop, Research Associate Professor. BS, University of Michigan, 1993; MD, Mayo Medical School, 1997; MPH, Emory University, 2000. Nell Hodgkins Woodruff School of Nursing.

Audrey Gaskins, Assistant Professor BSE, Duke University, 2008; ScD Harvard University, 2014. Department of Epidemiology.

Thomas Gillespie, Associate Professor. BSc, University of Illinois at Urbana, 1996; MS, University of Florida, 2000; PhD, 2004. Department of Environmental Sciences, Emory College.

Anke Huels, Assistant Professor. BS, Tu Dortmund University, 2012; MS, Tu Dortmund University,

ENVIRONMENTAL HEALTH

2014; PhD, Tu Dortmund University, 2018. Department of Epidemiology.

Dayna Johnson, Assistant Professor. BA, Purdue University, 2004; MPH/MSW, University of Michigan, 2007; MS University of Michigan, 2010; PhD, University of Michigan, 2014. Department of Epidemiology.

Uriel Kitron, Professor. BSc, Hebrew University, 1975; PhD, University of California, 1981; MPH, University of Michigan, 1982. Department of Environmental Sciences, Emory College.

Juan Leon, Associate Professor. BA, Dartmouth College, 1996; MPH/PhD, Northwestern University, 2003. Rollins School of Public Health, Hubert Department of Global Health.

Benjamin A. Lopman, Professor. BS, University of Florida, 1999; MSc, London School of Hygiene and Tropical Medicine, 2000; PhD, Open University/Health Protection Agency, 2004. Rollins School of Public Health, Department of Epidemiology.

Michele Marcus, Professor. BS, City University of New York–Brooklyn College, 1974; MPH, Columbia University, 1981; MPhil, 1984; PhD, 1986. Rollins School of Public Health, Department of Epidemiology.

Linda A. McCauley, Professor and Dean. BSN, University of North Carolina, 1971; MN, Emory University, 1979; PhD, University of Cincinnati, 1988. Nell Hodgson Woodruff School of Nursing.

Christine L. Moe, Eugene J. Gangarosa Professor of Safe Water and Sanitation. BA, Swarthmore College, 1979; MS, University of North Carolina, 1984; PhD, 1989. Rollins School of Public Health, Hubert Department of Global Health.

Elizabeth McQuade, Assistant Professor. BS, BA, Emory University, 2010; MSPH, University of North Carolina – Chapel Hill, 2012; PhD, University of North Carolina – Chapel Hill, 2015.

Rebecca Philipsborn, Assistant Professor. AB, Princeton University, 2002; MPA, Columbia University, 2007; MD, Emory University, 2013. Department of Pediatrics.

Jonathan D. Rupp, Associate Professor. BS, University of Michigan, 1996; MS, 1997; PhD, 2006. Emory School of Medicine, Department of Emergency Medicine.

Eri Saikawa, Associate Professor. BE, University of Tokyo, 2003; MPA, Indiana University at Bloomington, 2005; PhD, Princeton University, 2010. Department of Environmental Sciences, Emory College.

Lisa M. Thompson, Associate Professor. BA, Tulane University, 1984; BS/MS and FNP, San Francisco State University, 1996; MS, University of California, Berkeley, 2004; PhD, University of California, Berkeley, 2008. Nell Hodgson Woodruff School of Nursing.

Gonzalo M. Vazquez Prokopec, Associate Professor. Master's equivalent, University of Buenos Aires, 2003; PhD, 2007. Department of Environmental Sciences, Emory College.

Lance A. Waller, Professor. BS, New Mexico State University, 1986; MS, Cornell University, 1990; PhD, 1992. Rollins School of Public Health, Department of Biostatistics and Bioinformatics.

David W. Wright, Professor. BS, Samford University, 1987; MD, University of Alabama, 1993. Emory School of Medicine, Emergency Neurosciences, Department of Emergency Medicine.

Adjunct and Visiting Faculty

David M. Berendes, Adjunct Assistant Professor. BS, Duke University, 2009; MSPH, Emory University, 2011; PhD, Emory University, 2016. U.S. Centers for Disease Control and Prevention. Suzanne Binder, Adjunct Professor. BS, McGill University, 1976; MD, Tufts University School of Medicine, 1981. Consultant.

Patrick N. Breyse, Adjunct Professor. BS, Washington State University, 1978; MHS, Johns Hopkins University, 1980; PhD, Johns Hopkins University, 1985. U.S. Center for Disease Control and Prevention, National Center for Environmental Health and Agency for Toxic Substances and Disease Registry.

Joe Brown, Adjunct Assistant Professor. BS, University of Alabama, 2001; MPhil, University of Cambridge; PhD, University of North Carolina, Chapel Hill, 2007. Georgia Institute of Technology. **Lyndsey Darrow**, Adjunct Professor. BA, Stanford University, 2000; PhD, Emory University, 2008. University of Nevada, Reno.

Lisa Dawson, Adjunct Associate Professor. BA, Florida State University, 1990; MPH, Emory University, 2005. Georgia Department of Public Health.

Owen J. Devine, Adjunct Professor. BS, Pennsylvania State University, 1979; MS, University of Georgia, 1982; PhD, Emory University, 1992. U.S. Centers for Disease Control and Prevention

(retired).

Henry Falk, Adjunct Professor. BA, Yeshiva College, 1964; MD, Albert Einstein College of Medicine, 1968; MPH, Harvard University, 1976. U.S. Centers for Disease Control and Prevention (retired).

Thomas L. Fariss, Adjunct Professor. BS, College of William and Mary, 1983; MD, University of Virginia, 1987; MPH, George Washington University, 1994. Kimberly Clark Corporation.

Bruce Fowler, Adjunct Professor. BS, University of Washington, 1968; PhD, University of Oregon Medical School, 1972. Agency for Toxic Substances and Disease Registry, U.S. Centers for Disease Control and Prevention.

Tim Frederick, Adjunct Associate Professor. BA, University of Miami, 1989; MPH, Emory University, 1996. US Environmental Protection Agency.

Katherine Gass, Adjunct Assistant Professor. BA, Oberlin College; MPH, Emory University, PhD, Emory University. Task Force for Global Health.

Philip L. Graitcer, Adjunct Professor. BA, Duke University, 1966; DMD, Temple University, 1970; MPH, Harvard University, 1972. Consultant.

Roby Greenwald, Adjunct Assistant Professor. BS, Clemson University, 1994; MS, Georgia Institute of Technology, 2001; PhD, 2005. Georgia State University.

Matthew Gribble, Adjunct Associate Professor. BA, Stanford University, 2009; BS, Stanford University, 2009; PhD, Johns Hopkins, 2013.

Marissa Kriegler Grossman, Adjunct Assistant Professor. AB, Princeton University, 2006; MPH, Emory University, 2012; PhD, Emory University, 2017. U.S. Centers for Disease Control and Prevention, National Center for Zoonotic and Emerging Infectious Diseases.

Vincent R. Hill, Adjunct Associate Professor. BSc, Johns Hopkins University, 1990; MSc, 1991; PhD, University of North Carolina, Chapel Hill, 2001. U.S. Centers for Disease Control and Prevention.

Bilqis Amin Hoque, Adjunct Professor. BSc, Bangladesh Agricultural University, 1977; MSc, University of Reading, 1980; PhD, Oklahoma State University, 1984. Environment and Population Research Center, Bangladesh.

Ciannat Howett, Adjunct Associate Professor. BA, Emory University, 1987; JD, University of Virginia, 1992. Sustainability Initiatives, Emory University.

Pinar Keskinocak, Adjunct Professor. BS, Bilkent University, 1991; MS, Bilkent University, 1992; MS, Carnegie Mellon University, 1997. Georgia Institute of Technology.

Amy E. Kirby, Adjunct Assistant Professor. BS, University of Georgia, 1997; PhD, University of Buffalo, 2003; MPH, Emory University, 2012. U.S. Centers for Disease Control and Prevention.

Flemming Konradsen, Visiting Professor. BSc, University of Copenhagen, 1990; PhD, 1998.

Judy Kruger, Adjunct Associate Professor. BSc, University of Waterloo, 1993; MS, University of Illinois at Chicago, 1997; PhD, 2001. U.S. Centers for Disease Control and Prevention.

Richard A. Lemen, Adjunct Professor. BA, Central Methodist College, 1967; MSPH, University of Missouri, 1971; PhD, University of Cincinnati, 1992. National Institute for Occupational Safety and Health (retired). Consultant.

Karen Levy, Adjunct Associate Professor. BA, Stanford University, 1995; MSc, University of California, Berkeley, 2002; MPH, 2006; PhD, 2007. University of Washington.

Zheng Jane Li, Adjunct Assistant Professor. BS, Wuhan University, 1996; MS, Mississippi State University, 2012; MPH, University of South Florida, 2012; PhD, Georgia Institute of Technology, 2009. Agency for Toxic Substances and Disease Registry.

Mia Mattioli, Adjunct Assistant Professor. BS, University of Georgia, 2008; MS, Stanford University, 2010; PhD, Stanford University, 2012. U.S. Centers for Disease Control and Prevention.

A. Stanley Meiburg, Adjunct Professor. BA, Wake Forest University, 1975; MA, 1978; PhD, The Johns Hopkins University, 1986. Wake Forest University.

Maria C. Mirabelli, Adjunct Associate Professor. BA, University of Virginia, 1995; MPH, Emory University, 1998; PhD, University of North Carolina at Chapel Hill, 2005. US Centers for Disease Control and Prevention, National Center for Environmental Health.

M. Moiz Mumtaz, Adjunct Professor. BS, Osmania University, 1970; MS, 1972; MS, Oregon State University, 1976; PhD, University of Texas, 1984. Agency for Toxic Substances and Disease Registry, U.S. Centers for Disease Control and Prevention.

ENVIRONMENTAL HEALTH

Jennifer Murphy, Adjunct Associate Professor. BS, Emory and Henry College, 2000; PhD, University of North Carolina, 2006. Centers for Disease Control and Prevention.

Leticia Nogueira, Adjunct Associate Professor. BS, Universidade Estadual Paulista, 2004; MPH, Harvard University, 2011; PhD, University of Texas, 2010. American Cancer Society.

Jamaji Nwanaji-Enwerem, Adjunct Assistant Professor. BS 2012, Morehouse College; Master in Public Policy (MPP) 2021, Harvard John F. Kennedy School of Government; PhD 2018, Harvard Chan School of Public Health / Harvard Graduate School of Arts and Sciences; MD 2021, Harvard Medical School. Emergency Medicine Resident Physician, Emory University School of Medicine.

Holly Patrick, Adjunct Assistant Professor. BS, University of the South, 1990; Med, Georgia State University, 1997; MPH, Emory University, 2013. Centers for Disease Control and Prevention.

Lisa Pfadenhauer, Adjunct Assistant Professor. BA, University of Passau, 2010; MPH, Ludwig-Maximilians-Universität, 2012; PhD, University of Munich, 2017. Global Diabetes Research Center, Emory University.

Christopher J. Portier, Adjunct Professor. BS, Nicholls State University, 1977; MS, University of North Carolina, 1979; PhD, 1981. U.S. Centers for Disease Control and Prevention, National Center for Environmental Health (retired).

Arthi Rao, Adjunct Assistant Professor. BA, Bangalore University, 1999; MLA, Pennsylvania State University, 2002; PhD, Georgia Institute of Technology, 2016. Center for Quality Growth and Regional Development.

Shubhayu Saha, Adjunct Assistant Professor. BS, Calcutta University, 1977; MA, Jawaharlal Nehru University, 1999; PhD, North Carolina State University, 2008. Centers for Disease Control and Prevention.

Amy Helene Schnall, Adjunct Assistant Professor. BA, Princeton University, 2004; MPH, Emory University, 2006; DPH, Georgia State University, 2021. Centers for Disease Control and Prevention, National Center for Environmental Health.

Thomas H. Sinks Jr., Adjunct Professor. BS, Tulane University, 1973; MS, 1982; PhD, Ohio State University, 1985. U.S. Environmental Protection Agency.

Melissa Smarr, Adjunct Assistant Professor. BS North Carolina Central University, 2007; PhD University of Michigan, 2014. National Institute of Environmental Health Sciences.

James M. Smith, Adjunct Professor. BS, West Virginia University, 1964; MS, 1966; PhD, 1969. U.S. Centers for Disease Control and Prevention, National Center for Environmental Health (retired).

Matthew Strickland, Adjunct Professor. BA, Case Western Reserve University, 2000; MA, Case Western Reserve University, 2000; MPH, Epidemiology, Ohio State University, 2002; PhD, Epidemiology, Emory University, 2007. University of Nevada, Reno.

Mary C. White, Adjunct Professor. BA, University of Rochester, 1977; MPH, University of Michigan, 1979; ScD, Harvard University, 1986. U.S. Centers for Disease Control and Prevention.

Jonathan S. Yoder, Adjunct Assistant Professor. BA, Clearwater Christian College, 2001; MSW, University of Florida, 1999; MPH, University of South Florida, 2001. U.S. Centers for Disease Control and Prevention.

Ying Zhou, Adjunct Associate Professor. BS, Tsinghua University, 1997; ScD, Harvard University, 2002. U.S. Centers for Disease Control and Prevention.

Environmental Health Course Descriptions

EH 500 (2) Perspectives/Environmental Health

FALL/SPRING. EH 500 is a survey course designed to introduce public health students to basic concepts of environmental sciences, to the methods used to study the interface of health and the environment, to the health impacts of various environmental processes and exposures, and to the public health approach to controlling or eliminating environmental health risks. To address these concepts, basic environmental health principles (exposure assessment, environmental toxicology, environmental epidemiology, risk assessment), as well as specific environmental health issues including water and air pollution, hazardous chemical/waste exposures, climate change, and environmental drivers of disease ecology, will be covered.

EH 501 (2) Introduction to Environmental Health

FALL. EH department students only. Required foundation course for students in all master's programs administered by Department of Environmental Health. Introduces students to major topics in environmental health, including mechanisms of toxicity, pesticides and other chemicals, children's health, WASH (water, sanitation, and hygiene), infectious disease, air pollution, climate change, and planetary health. Describes tools used to understand these EH topics, such as exposure science, epidemiology, toxicology, biomarkers/omics, risk assessment, implementation science, and policy.

EH 510 (2) Foundations of Exposure Science

SPRING. In this course, students will be introduced to the concepts of exposure science. Students will learn how contaminants are transported from sources to receptors and how human receptors are affected by such contact. Varying exposure science approaches, across a range of environmental media, including air, water, soil, and internal biological matrices, will be considered. Methods of assessment including direct monitoring of environmental media, modeling, as well as biomarkers of exposure will be presented and discussed in detail. Students will examine the literature of exposure science through readings, in-class article discussions, and by conducting a collaborative exposure assessment.

EH 515 (2) Air Quality in the Urban Environment: A Survey of Research Methods and Recent Findings

SPRING. The link between the air we breathe and human health affects millions globally, placing urban air quality as a leading contributor to the global burden of disease. This course examines ways to characterize urban air pollution as well as its public health implications based on recent clinical, epidemiological, and toxicological research. The course will be highly interactive and will provide instruction on conducting basic, applied air quality research in academic, governmental, and grassroots settings.

EH 520 (3) Human Toxicology

FALL. Prerequisites: college-level biology and chemistry or instructor's permission. The goal of this course is to introduce the student to the basic principles of toxicology. Humans are exposed to a variety of dangerous substances through occupational and environmental exposures. In order to interpret the public health implications of these exposures one must have a good understanding of how these compounds get into the body, how they are processed in the body, and how they damage particular organ systems. To accomplish this, students will gain practical knowledge of the workings of specific organ systems and will be able to identify particular environmental chemicals and their mechanisms of action that underlie organ toxicity. This information will be conveyed through lecture material and reinforced by relevant readings, in-class discussion, and additional assignments that are focused on ensuring that the toxicological topics are further evaluated and considered in the context of current environmental and human health concerns and do not simply exist as standalone facts.

EH 523 (2) Neurotoxicology

SPRING. Prerequisite: EH 520 or instructor's permission. This course is focused on understanding and evaluating the targets, molecular mechanisms, and physiological effects of specific environmental chemicals on the nervous system. This knowledge will be supplemented through outside readings and class discussions that serve to support the students' understanding of the material and provide them with a real-world perspective of neurotoxicology.

EH 524 (2) Risk Assessment

FALL. Surveys the general principles and practices of environmental health risk assessment for toxic exposures in the environment and interactions with other factors contributing to human health risks. A variety of case studies will be used to demonstrate the basic methods and results of risk assessment, including estimation/evaluation of potential risk based on empirical evidence (e.g., laboratory animal studies, epidemiological studies), hazard and dose-response assessment for regulatory decisions, and uncertainty analysis and risk communication. Students will be introduced to and use key tools used in quantitative risk assessment.

ENVIRONMENTAL HEALTH

EH 527 (2) Biomarkers and Environmental Public Health

SPRING. This course presents the fundamental concepts of biomarkers of exposure to environmental chemicals including relevant clinical markers (e.g., inflammation or injury markers). The course introduces students to both quantitative and qualitative biomarker measurements and presents and interpretive framework for using biomarker data. Students will develop proficiency in applying the principles of exposure science to characterize and quantify environmental exposures.

EH 528 (2) The Environment, 'Omics and Health

FALL. This elective course provides students with an overview of systems biology, genetics, epigenomics, and transcriptomics, within the context of environmental health. We will cover policy and translational implications and teach the underlying biological principles driving these analyses, laboratory methods involved, analytic approaches, and epidemiologic considerations. Upon completion of this course, students should be better equipped to read and interpret the scientific literature utilizing these methods and begin to consider how these approaches could be included in their own research.

EH 530 (2) Environmental and Occupational Epidemiology

SPRING. Prerequisites: EH Department student, EPI 530 and BIOS 500. Students will gain experience reading, evaluating, and interpreting epidemiologic studies on the impact of both workplace and environmental exposures, and thinking through practical considerations. The course aims to strengthen each student's ability to read epidemiological literature critically. This aim will be realized through in-depth exploration of major study designs including cross-sectional studies, cohort studies, and case-control studies; and through the weekly readings and case studies. Although some data analysis is required, the focus of the class is on conceptual issues common in environmental and occupational epidemiology research and on the interpretation of findings. Successful completion of the course will also contribute to a richer appreciation of how the environment affects public health.

EH 543 (1) Sustainability

FALL. Explores principles, policies, and practices related to sustainability. The course will cover the general approach to sustainability from environmental, social, and economic perspectives. Lectures will also cover specific sustainability related topics, including energy, water, waste, transportation, food, buildings, greenspace, land use, community revitalization, behavior change, purchasing, and curriculum development. The focus of our work together will be to analyze the role of the public health professional in shaping sustainability policy and furthering sustainability practices. The class will complete a group project to develop a comprehensive plan to address a sustainability-related issue. The course is an elective seminar without prerequisites.

EH 548 (3) Research Methods for Studies of Water and Health

SPRING. Recommended Prerequisite: GH 529 Water and Sanitation in Developing Countries or equivalent. This hands-on course covers methods needed to carry out field studies focused on water and health. Through lecture and laboratory exercises, students will learn critical skills in measuring water quality exposure assessment and waterborne disease health outcomes that will enable them to conduct their own field studies and analyze the resulting data. The focus will be on issues of microbiological contamination in developing countries, but chemical contamination and domestic cases will also be covered.

EH 570 (2) Environmental Health Law and Policy

SPRING. This course introduces students to the major laws, regulations, and policies applicable to environmental health, primarily in the United States. Readings, discussions, and expert guest speakers are designed to explore the history, politics, economics, and ethics of environmental health policy, including issues around environmental justice. Case studies, in-class activities and policy analysis assignments will emphasize practical skills in policy development and promotion while exposing students to the challenges of advancing evidence-based environmental health policy in the context of competing political perspectives and priorities.

EH 571 (2) Global Environmental Health Policy: Power, Science and Justice

SPRING. This seminar encourages students to explore the forces that influence the development of environmental health policy, particularly in low-income countries. Using a case-study approach that draws on the instructor's experience in international water and sanitation, the course examines the actors, their agendas and strategies, and the political, social, legal and economic systems in which they operate. Special emphasis is given to the role of research and scientific evidence in environmental health policymaking. Readings, discussion and occasional guest speakers also explore issues of equity and environmental justice.

EH 572 (2) Environmental Justice: Theory and Public Health Practice

SPRING. The goal of environmental justice is to create a world with socially and environmentally equitable outcomes and a world wherein all have equal opportunity to participate in processes leading to evidence-based, positive policy. The methods of environmental justice are based on what is necessary for creating that space: engagement of communities and cultivation of capacity to understand and respond to environmental concerns; moral and empirically sound collaborations, and the goal of making a visible and positive difference for communities. This elective course will review intellectual contributions by community-based, anti-colonial and social theory leaders; frameworks for structuring and maintaining community ties; special ethical considerations for working with indigenous and other historically colonized communities; and will offer examples of environmental justice in public health research.

EH 580 (2) Injury Prevention And Control

FALL. This course in injury prevention and control is designed to introduce public health students to basic concepts of injury prevention and control, to the statistics, surveillance and epidemiology of various types of injury, and to the public health approach to controlling or eliminating injuries using concepts of engineering, enforcement, and education (policy, environmental modification and behavior modification). This class features content experts from CDC and other local agencies as well as student-generated case studies.

EH 581 (2) Public Health Consequences of Disasters

FALL. This course considers public health aspects of preparedness and management of natural and man-made disasters, including hurricanes, floods, and biosecurity threats, with an emphasis on understanding their complexity and impact. The course is taught using texts, peer-reviewed articles, and presentations by top field experts. The course is designed to stimulate understanding and to encourage an exchange of ideas regarding lessons learned from the past and the implications for current and future policies and disaster planning.

EH 582 (2) Global Climate Change: Health Impacts and Response

FALL. This course will explore the public health impacts of global climate change, the responses undertaken by the health sector to become more resilient to those impacts, and potential mitigation efforts and activities. Public health responses will cover examples from around the world, and include issues around risk communication and implementation of the adaptation strategies. It will provide a practical approach to conducting vulnerability and risk assessments, and students will be introduced to a range of skills to assess and respond to climate-related health impacts. Cross-listed with GH 582.

EH 584 (2) Built Environment and Public Health

FALL. This interdisciplinary course examines how cities and neighborhoods can have both positive and adverse effects on human health and produces recommendations to improve these outcomes. This seminar is an elective planning and public health course that explores the interconnections between these fields and equips students with skills and experiences to plan healthy communities. This course covers planning and public health foundations, natural and built environments, vulnerable populations and health equity, and health policy and global impacts. This course is offered in conjunction with Emory's Gangarosa Department of Environmental Health and the Georgia Tech City and Regional Planning program and brings together students from both programs

ENVIRONMENTAL HEALTH

and perspectives. When offered in person, half of the course may take place at Georgia Tech; allow for travel time.

EH 586 (2) Adv. Sem in Climate Change and Health: Research and Policy

SPRING. Recommended prerequisite: EH 582/GH 582. Building on EH/GH 582, this course offers an advanced examination of climate and health research and solutions. On the research side, this course will use an in-depth climate health impact assessment study to demonstrate scientific premise, study design, data access and processing, research methodology, results visualization and interpretation. On the solutions side, we will unpack the history and current state of play of global and national climate policy while also diving deep into state and local efforts. In addition, we will pursue emerging topics related to climate change research and policy. Throughout the semester, students will work on a project that will contribute to the Georgia Climate Project, a multi-university consortium co-founded by Emory. Through this effort we will apply systems thinking tools to propose strategies and identify stakeholders important for implementing climate solutions.

EH 587 (2) Intro.to Satellite Remote Sensing of the Environment and its Applications in PH

SPRING. Prerequisites: at least one GIS class (INFO 530) or equivalent. Geospatial information collected from satellite remote sensing has become a powerful tool in environmental and public health science and policy making. However, public health researchers usually lack training to benefit from this rapidly evolving technology. This computer lab-based course provides students with the theoretical basis and refined understanding of satellite remote sensing technologies, and tools for geospatial data analysis. Students will learn (1) the history, terminology and data structure of both land and atmospheric remote sensing such as those from MODIS and Landsat, and (2) the strategies and techniques to analyze geospatial data in advanced software packages. Various case studies and lab exercises help students overcome the initial hurdle to the effective use of satellite data in land use change and air pollution characterization, climate change and other areas related to public health. The final project allows the students to apply satellite data together with other information to solve a problem of their interest.

EH 587L (1) Introduction to Satellite Remote Sensing of the Environment and its Application to Public Health Lab

SPRING. Additional in-depth computer exercises to EH 587; must enroll concurrently with EH 587. Enroll in EH 587 first before enrolling in EH 587L.

EH 590R (12) Environmental Health Seminar

FALL/SPRING. Various topics by GDEH faculty. Check OPUS/Atlas for current topics and descriptions.

EH 591 (2) Integrated Learning Experience in Environmental Health: Part 1

FALL. This course introduces basic concepts underpinning research and project design in environmental health. Students will learn of integrative learning experience (ILE) project types in environmental health, identify and/or refine their individual ILE project topics, develop key elements required for proposing work on their project topic, and demonstrate project feasibility by producing preliminary results. Throughout, students will develop and apply their writing skills and participate in providing feedback to peers. By the end of the course, students will submit a full written ILE proposal and a video trailer summarizing their proposed project in visual format.

EH 592 (2) Integrated Learning Experience in Environmental Health: Part 2

SPRING. The course provides a productive, supportive and critical environment for the completion of integrative learning experiences (ILE). EH skills gained during the MPH program are applied and integrated. Students will submit a completed ILE paper that describes the justification, methodologies, findings, and products of their ILE project, as well as a poster presentation that summarizes the highlights of their project.

EH 595 (0) Applied Practice Experience

FALL/SPRING/SUMMER. An Applied Practice Experience (APE) is a unique opportunity that enables students to apply practical skills and knowledge learned through coursework to a professional public health setting that complements the student's interests and career goals. The APE must be supervised by a Field Supervisor and requires approval from an APE Advisor designated by the student's academic department at RSPH.

EH 597R (4) Directed Study

FALL/SPRING/SUMMER. Pursue a specialized course of study in an area of special interest. Complements rather than replaces or substitutes for course work. ADAP permission only.

EH 599R (4) Thesis

FALL/SPRING/SUMMER. Enables students to apply the principles and methods learned in an academic setting through the preparation of a monograph that embodies original research in environmental health and incorporates a proposition that has been successfully evaluated with appropriate statistical techniques and is potentially publishable or has potential public health impact. ADAP permission only.

EHS 600R (2) Research Rotation

IRR. The goal of the research rotation is for the student to gain experience in a real research setting. Students in the EHS program complete three research rotations in the three EHS core areas of exposure science, biological mechanisms of susceptibility and disease, and environmental determinants of population health. Each rotation should include development of a research problem and collection/analysis of data. It is also an opportunity to develop relationships with faculty members and to explore and develop dissertation research ideas.

EHS 710 (2) Advanced Laboratory and Field Methods in Exposure Science

FALL/SPRING. Alt years. Students learn concepts of exposure science, contaminant transport, and how human receptors are affected. Exposure science approaches across media, including air, water, soil, and internal biological matrices, will be considered. Direct monitoring, modeling, and biomarkers of exposure will be presented and discussed. Students will examine the literature of exposure science through readings, in-class article discussions, and by conducting a collaborative exposure assessment study evaluating the aggregate exposure and the exposome of nitrogen-containing compounds in the environment.

EHS 720 (2) Introduction to Physiologically-Based Toxicokinetic (PBTK)/Pharmacokinetic (PBPK) Modeling

SPRING. The health effects of environmental or pharmaceutical chemicals depend on their concentrations and their metabolites in the human body. Given an exposure to a chemical, understanding and predicting its internal concentrations can be greatly aided by a physiologically based toxicokinetic (PBTK) or pharmacokinetic (PBPK) modeling approach. PBTK/PBPK models simulate the absorption, distribution, metabolism, and elimination processes that collectively determine the fates of exogenous chemicals in the human body, producing as model output temporal changes in chemical tissue concentrations.

EHS 730 (2) Computational Systems Biology: Modeling Biological Responses

FALL. Understanding biological responses to external perturbations, their health outcomes, & risks requires a systems biology approach. Such an approach is necessary to make sense of biological pathways comprising genes, RNAs, proteins, & metabolites, & to understand how they are organized to carry out integrated, systems-level functions & respond to biological, pharmaceutical, & environmental perturbations. This interdisciplinary course introduces the basic concepts in systems biology & numerical simulation techniques for mechanically understand & predict biological responses. EHS 730 crosslisted w IBS 741.

ENVIRONMENTAL HEALTH

EHS 740 (2) Molecular Toxicology

SPRING. Prerequisites: EH 520 or instructor permission. The goal of this course is to strengthen the students' understanding of the interaction between environmental chemicals and specific organ systems of the human body, focusing on appreciation of cellular and molecular mechanisms that underlie the toxicity. This knowledge will be supplemented through outside readings and class discussions using a modified problem based learning (PBL) format. These interactions will serve to support the students' understanding of the material and provide them with a real world perspective of molecular toxicology.

EHS 747 (2) Advanced Environmental Epidemiology

FALL. Prerequisites: Required: EPI 530 and BIOS 500; BIOS 501 or BIOS 591P; also preferred: EPI 539, EPI 540 or EPI 545; or instructor's permission. Students will gain experience reading, evaluating, and interpreting EPI studies on the health impact of workplace & environmental exposures. Students will understand & interpret the EPI literature. Skills are developed through class lectures, assigned readings, & case studies. Most case studies require data analysis though the focus of the class is on conceptual issues common in environmental EPI rather than on applied statistics. Cross listed with EPI 747.

EHS 750 (3) Environmental Determinants of Infectious Disease

SPRING. This course covers ways the environment influences the transmission and spread of infectious diseases in humans. We consider air, water, soil, animal, and human influences, with case studies on each of these factors. The course covers methods used in the study of infectious diseases, including epidemiology, mathematical modeling, risk analysis, social science, ecology, and molecular biology. Students will learn to think from the perspective of a pathogen trying to maximize its fitness over both short- and long-term time scales. It is helpful if students have some background in biology.

EHS 760 (2) Advanced Risk Assessment

SPRING. Prerequisite: EH 524 or EHS student. Students will learn quantitative methods used in environmental health risk assessment. The course focuses on models used in estimating health risks, quantification of variabilities and uncertainties in model-based estimates, Benchmark Dose (BMD) modeling for estimating reference doses, physiologically-based toxicokinetic (PBTK) modeling for internal exposure estimation, and in vitro assay-based approach for chemical safety assessment. The course is taught at a PhD level and assumes familiarity with basic concepts of risk assessment as taught in EH 524.

EHS 790R (1) Research Design and Management

FALL/SPRING. This course provides students with training at the nexus of scientific methods and practice, building skills fundamental to scientific enterprise, which support ethical and responsible conduct of science. The course will address the range of skills needed to conduct research in the areas of exposure science, biological mechanisms of disease, and environmental determinants of population health. The class will allow students and program faculty to exchange and develop new ideas in research and mentoring and share relevant difficulties and opportunities encountered during doctoral training.

EHS 797R (9) Directed Study

FALL/SPRING. Students pursue a specialized course of study in an area of special interest. Complements rather than replaces or substitutes coursework. Requires an agreement with and permission from the faculty instructor and Department Chair.

EHS 798R (9) Pre-candidacy Research

FALL/SPRING/SUMMER. EHS doctoral students engage in research prior to candidacy. The type of research training that students complete during these research hours vary widely. Most research activities that contribute to students' overall training and allow them to make progress in the program will qualify toward these credits. Examples of typical student research activities include: conducting primary data collection, performing an analysis, writing a manuscript, studying for the qualifying exam, or preparing a grant proposal.

EHS 799R (9) Dissertation Research

FALL/SPRING/SUMMER. EHS doctoral students engage in research after entering candidacy; research must contribute to students' overall training and allow them to make progress in the program. Examples of typical student research activities include: writing a dissertation proposal, writing a dissertation chapter, or preparing a grant proposal.



EPIDEMIOLOGY

Department of Epidemiology

<https://www.sph.emory.edu/departments/epi/index.html>

Timothy L. Lash, O. Wayne Rollins Distinguished Professor and Chair

The Department of Epidemiology offers courses of study leading to the Master of Public Health (MPH) and the Master of Science in Public Health (MSPH) degrees in epidemiology through the Rollins School of Public Health of Emory University, and the Doctor of Philosophy (PhD) degree in epidemiology through the Laney Graduate School of Emory University. The programs are designed to help students achieve the knowledge, skills, and philosophy they will need to have an influential career in public health. Graduates pursue careers in public health agencies, academic institutions, and in the private sector, including health organizations and industry.

Areas of Research

The department provides outstanding opportunities for education and research. Faculty interests include cancer, cardiovascular diseases, genetic and molecular epidemiology, epidemiologic methods, infectious diseases, nutrition and physical activity, reproductive and perinatal health, social epidemiology, and women's and children's health. The Department of Epidemiology is home to research and training centers focused on Racism as a Public Health Problem, Sexual Minority Health, Tuberculosis Prevention and Control, Cancer Surveillance, Advancing Vaccine Preventable Epidemiology, and Reducing Inequalities in Cardiovascular Health.

Students often take advantage of the department's close working relationship with the adjacent US Centers for Disease Control and Prevention (CDC) by participating in collaborative research projects. Those interested in developing skills in cancer epidemiology will find opportunities with the Surveillance, Epidemiology, and End Results (SEER) Program, supported by the National Cancer Institute; the American Cancer Society, whose national headquarters are in Atlanta; and the Winship Cancer Institute at Emory University. Research opportunities are available in other departments at the Rollins School of Public Health, The Carter Center, the Georgia Department of Public Health, the ten large teaching hospitals affiliated with Emory Healthcare, and other state and local health departments. These resources, as well as others in the clinical and basic science divisions of the Emory University School of Medicine and the Nell Hodgson Woodruff School of Nursing, provide students with a wide range of study and research opportunities.

Areas of Study

The Department of Epidemiology offers required courses that focus on epidemiologic and biostatistical methods, study design, and data analysis. This knowledge allows students to apply their skills to any research or service area they choose. Students are free to choose, with advisement, electives that will allow informal concentrations in many areas of study, including, but not limited to, cancer, cardiovascular diseases, genetic and molecular epidemiology, epidemiologic methods, infectious diseases, nutrition and physical activity, reproductive and perinatal health, social epidemiology, and women's and children's health.

Interdepartmental Programs

The Department of Epidemiology offers two interdepartmental programs. A joint MPH degree is offered in Environmental Health and Epidemiology (EH- EPI) with the Gangarosa Department of Environmental Health. It also offers joint MPH or MSPH degrees in Global Epidemiology with the Hubert Department of Global Health. For more information and specific coursework, please refer to the Interdepartmental Programs section.

MPH Admission Requirements

Requirements for admission to the MPH degree program in epidemiology include a baccalaureate degree, and completion of one college-level math and one college-level science course (biology and calculus are preferred, but not required). Students without college-level math courses can submit standardized test scores to demonstrate quantitative proficiency. Applications are holistically

evaluated based on several criteria including: overall academic performance in the undergraduate/graduate programs, with particular attention to the applicant’s math and science coursework, as well as the applicant’s statement of purpose, experience, and letters of recommendation. Reference letters should be sent from professors, supervisors, and mentors who have related knowledge and experience with the rigors of graduate study and who can speak to an applicant’s ability to succeed in the program. Students are only admitted to matriculate in the fall semester.

MSPH Admission Requirements

Requirements for admission to the MSPH degree program in epidemiology include a baccalaureate degree, completion of one semester of college-level calculus and one semester of a college-level science course. Applications are holistically evaluated based on several criteria. The applicant’s overall academic performance in the undergraduate/graduate programs is considered, with particular attention focused on the applicant’s math and science coursework.

Previous work experience, letters of recommendation, the applicant’s statement of purpose, and standardized test scores are also considered. Reference letters should be sent from professors, supervisors, and mentors who have related knowledge and experience with the rigors of graduate study and who can speak to an applicant’s ability to succeed in the program. Students are only admitted to matriculate in the fall semester.

Which Degree Program Should I Choose?

The four master’s degree programs are distinct and it is important to understand which one best fits your needs. The following table details some of the major differences between the four programs. Competencies for each program are included earlier in the catalog.

	MPH in Epidemiology	MSPH in Epidemiology	MPH in Global Epidemiology	MSPH in Global Epidemiology
Program Focus	Public health practice	Public health research and practice	Public health practice within the global context	Public health research and practice within the global context
Credits Required	42	48	42	48
Elective Credits	5	5	2	2
Integrative Learning Experience	Thesis or Capstone	Thesis	Thesis or Capstone	Thesis

EPIDEMIOLOGY

	MPH in Epidemiology	MSPH in Epidemiology	MPH in Global Epidemiology	MSPH in Global Epidemiology
Key Skills	Use epidemiological and biostatistical methods to identify, collect, manage, analyze, interpret and report population- based data to inform disease prevention and control.	Foundational skills of the MPH program, plus advanced training in analysis and methods.	Use epidemiological methods to identify, collect, manage, analyze, interpret and report population- based data to inform disease prevention and control in global settings.	Foundational skills for the MPH program plus advanced training in analysis and methods applicable to global settings.
Sample Career Path	Local, state, or federal government.	Local, state, or federal government, academic and/or research centers.	Local, state, or federal government, non-profit and non-governmental organizations.	Local, state, or federal government, academic and/or research centers, non-profit and non-governmental organizations.

Please visit <https://sph.emory.edu/departments/epi/degree-programs/index.html> for more information about degree requirements and course plans.

Required Core Courses for the MPH or MSPH Degree in Epidemiology

Course Number	Course Title	Credit Hours
PUBH 500	Introduction to Public Health	0
PUBH 501	Interprofessional Education and Public Health Leadership	0
BIOS 500/BIOS 500L	Statistical Methods I with lab	4
BSHES 500	Behavioral and Social Sciences in Public Health	2
EH 500	Perspectives in Environmental Health	2
GH 500	Critical Issues in Global Health	2
HPM 500	Introduction to the US Health Care System	2

Epidemiology MPH Program Degree Requirements

The MPH in Epidemiology is a 42-credit hour professional degree program designed to prepare epidemiologists for the public health workforce. Through a sequence of epidemiologic and biostatistical methods courses and training in two statistical programming languages (SAS and R), students are well-equipped with the skills needed to be influential public health professionals. Students further specialize their training through a substantive selective course, which contextualizes their methods training to a particular area of epidemiology. This selective introduces students to the application of methods to a particular substantive area and provides an opportunity to critically evaluate epidemiologic literature. Students complete their training through foundational coursework in the other public health disciplines.

Required Courses for the MPH Degree in Epidemiology

Course Number	Course Title	Credit Hours
BIOS 591P	Statistical Methods II	3
EPI 530	Epidemiologic Methods I	4

EPI 534	Statistical Programming	2
EPI 535	Designing and Implementing Epi. Studies	2
EPI 540	Epidemiologic Methods II	4
EPI 550	Epidemiologic Methods III	4
EPI 595	Applied Practice Experience	0
	Substantive Area Selective	2
	Electives	5

Integrative Learning Experience

The Integrative Learning Experience (ILE) for the Epidemiology MPH allows students to apply the principles and methods learned in coursework to a public health problem. All students must create and present a scientific poster on their APE or ILE prior to graduation.

The MPH Capstone allows students to work in groups in partnership with a public health organization to address a question that is of particular importance for the partnering organization. Students will complete both individual and group assignments, all aimed towards sharpening their skills in communicating their scientific findings.

The MPH Thesis is an independent project advised by a faculty advisor to address a research question that is of public health importance. Students prepare a monograph that describes the context and background for the research question, includes information on how the study was conducted, as well as the study findings and implications.

Due to the accelerated timeline, dual degree students and those enrolled in the accelerated (3-semester) MPH program must complete a thesis for their ILE.

Course Number	Course Title	Credit Hours
EPI 598C/R	Capstone/Thesis	4

Epidemiology MSPH Program Degree Requirements

The Master of Science in Public Health (MSPH) in Epidemiology is a professional degree designed for students with strong quantitative skills seeking a more in-depth education in epidemiologic methods. This degree program is particularly well-suited for students who are interested in a research-focused career. The MSPH in Epidemiology is a 48-credit hour professional degree program. Students complete a rigorous methods sequence including: four semesters of epidemiologic methods coursework, two semesters of biostatistical methods coursework, coursework in SAS and R programming languages, and a substantive and methodological selective. Students are well-equipped to apply advanced methodologies to solve public health problems and have expertise to contribute to study design and analysis. Students complete their training through foundational coursework in the other public health disciplines.

Required Courses for the MSPH Degree in Epidemiology

Course Number	Course Title	Credit Hours
BIOS 591P	Statistical Methods II	3
EPI 530	Epidemiologic Methods I	4
EPI 534	Statistical Programming	2
EPI 535	Designing and Implementing Epi. Studies	2
EPI 545	Advanced Epidemiology II	4
EPI 550	Epidemiologic Methods III	4
EPI 560	Epidemiologic Methods IV	4
EPI 595	Applied Practice Experience	0
	Substantive Area Selective	2
	Methods Selective	2
	Electives	5

EPIDEMIOLOGY

Integrative Learning Experience

The Integrative Learning Experience (ILE) for the MSPH is a thesis. Under the mentorship of a faculty thesis advisor, students apply the principles and methods learned in an academic setting to the preparation of a monograph that embodies original research applicable to public health. The MSPH thesis should incorporate at least one novel or innovative element, such as a novel hypothesis or an innovation in the analytic methods applied to the given topic area. MSPH students must create and present a scientific poster on their ILE prior to graduation.

Course Number	Course Title	Credit Hours
EPI 599R	Thesis	4

PhD Admission and Requirements

Requirements for admission to the PhD degree program in epidemiology include a baccalaureate degree and evidence of strong quantitative skills. Applications are evaluated based on several criteria. The applicant's overall academic performance in the undergraduate/graduate programs is considered, with particular attention focused on the applicant's math and science coursework. Previous work experience, letters of recommendation, the applicant's statement of purpose, and quantitative experience. Reference letters should be sent from professors, supervisors, and mentors who have related knowledge and experience with the rigors of graduate study and who can speak to an applicant's ability to succeed in the program. Application information is available online at <http://www.gs.emory.edu/admissions/application.html>. Applications and all supporting credentials must be received by December 1 for consideration for admission the following fall. Students are only admitted to matriculate in the fall semester. Please visit <https://www.sph.emory.edu/departments/epi/degree-programs/phd/index.html> for additional information.

Faculty

Alvaro Alonso, Stephen D. Clements Jr. Distinguished Professor of Epidemiology, MD, University of Navarra, 2000; MPH, National School of Health, 2002; PhD, University of Navarra, 2005. Cardiovascular epidemiology.

Angela Bengtson, Assistant Professor. BA, Bethel University, 2004; MA, University of Denver, 2009; PhD, University of North Carolina at Chapel Hill. HIV, perinatal epidemiology, infectious disease.

Ruth L. Berkelman, Emerita Rollins Professor of Public Health and Preparedness. AB, Princeton University, 1973; MD, Harvard Medical School, 1977.

Heather M. Bradley, Associate Professor. BA, Centre College, 1999; MHS, Johns Hopkins Bloomberg School of Public Health, 2005; PhD, 2009.

Allison Chamberlain, Research Associate Professor. BA, University of Virginia, 2004; MS, Georgetown University, 2007; PhD, Emory University, 2010. Infectious disease, emerging infections, surveillance.

Lauren Christiansen-Lindquist, Teaching Assistant Professor and Director of Graduate Studies. MPH, Emory University, 2009; PhD, 2015. Maternal Child Health, women's and children's health epidemiology.

James W. Curran, Professor. BS, University of Notre Dame, 1966; MD, University of Michigan, 1970; MPH, Harvard University, 1974.

Ann Do, Research Associate Professor. MD, University of Tennessee, Memphis, 1991; MPH, Emory University, 2004 HIV/AIDS, emerging infectious diseases.

M. Daniele Fallin, Professor and James W. Curran Dean of Public Health. BS, University of Florida, 1993; PhD, Case Western Reserve University, 2001. Genetic epidemiology, public mental health.

W. Dana Flanders, Professor. BS, University of Vermont, 1972; MA, Columbia University, 1974; MD, University of Vermont, 1977; MPH, Harvard University, 1979; DSc, 1982. Quantitative epidemiology, methods.

Neel Gandhi, Professor. BA, Williams College, 1994; MD, Brown University, 1999. Con-current epidemics of tuberculosis and HIV, with a particular interest in drug-resistant tuberculosis.

Audrey Gaskins, Associate Professor. BSE, Duke University, 2008; ScD, Boston University, 2014. Maternal and Child Health, Nutrition, Air Pollution, Obesity Prevention.

Julie A. Gazmararian, Professor. MPH, University of South Carolina, 1985; PhD, University of Michigan, 1992. Health outcomes; health literacy; maternal and child health; domestic violence.

Michael Goodman, Professor. MD, Kaunas Medical Academy (Lithuania), 1984; MPH, The Johns

- Hopkins University, 1995. Cancer epidemiology; prostate cancer, breast cancer, lung cancer, respiratory and neurobehavioral outcomes in children.
- Jodie Guest**, Research Professor. PhD, MPH, Emory University, 1999; Co-founder of the HIV Atlanta VA Cohort Study (HAVACS) antiretroviral-induced lipid abnormalities, nephrotoxicity, inflammatory markers of endothelial cell activation, hepatitis c coinfection, MRSA, and food insecurity.
- Terryl Hartman**, Professor. MS, Texas A&M University, 1985; PhD, University of Minnesota, 1995; MPH, Harvard University, 1996. Cancer prevention and control, dietary assessment and analysis.
- Carol J. R. Hogue**, Emerita Professor and Jules and Uldeen Terry Professor of Maternal and Child Health. AB, William Jewell College, 1966; MPH, University of North Carolina, 1971; PhD, 1973. Women's and children's health epidemiology, social epidemiology, reproductive health.
- Penelope P. Howards**, Associate Professor. BA, Dartmouth College, 1990; MS, Penn State University, 1994; PhD, University of North Carolina at Chapel Hill, 2004. Reproductive health, maternal and child health.
- Anke Huels**, Assistant Professor. BSc, TU Dortmund University, Germany, 2012; MSc, TU Dortmund University, Germany 2014; PhD, TU Dortmund University 2018, Environmental and genetic epidemiology; epigenetics.
- Samuel Jenness**, Associate Professor. BA, Boston University, 2002; MPH, Boston University, 2005; PhD, University of Washington, 2015. Infectious disease, prevention and control of HIV and other STIs.
- Dayna Johnson**, Assistant Professor. BA, Purdue University, 2004; MPH and MSW, University of Michigan, 2007; MS, University of Michigan, 2010; PhD, University of Michigan, 2014. Social and environmental determinants of sleep disorders and insufficient sleep.
- Jeb Jones**, Assistant Professor. BS, Georgia State University, 2005; MPH, Emory University, 2012; PhD, Emory University, 2016. HIV/AIDS prevention, risk assessment, infectious disease dynamics.
- Vijaya Kancherla**, Research Assistant Professor. BHMS, University of Health Sciences, 2000; MS, Southern Illinois University, 2004; PhD, University of Iowa, 2010. Epidemiology and surveillance of birth defects.
- David G. Kleinbaum**, Emeritus Professor. AB, Hamilton College, 1962; AM, University of Rochester, 1964; PhD, University of North Carolina, 1970.
- Michael Kramer**, Associate Professor. BA, Earlham College, 1991; MMSc, Emory University, 1997; MS, Alderson-Broaddus College, 2004; PhD, Emory University, 2009. Maternal and child health, social and spatial epidemiology.
- Timothy L. Lash**, O. Wayne Rollins Distinguished Professor of Epidemiology and Chair. BS, Massachusetts Institute of Technology, 1987; MPH, Boston University, 1992; DSc, Boston University, 1999. Epidemiologic methods and cancer prevention.
- Tené Lewis**, Professor. MA, University of California, 1998; PhD, 2003. Psychosocial epidemiology and health disparities particularly as they apply to cardiometabolic diseases.
- Andrea Lopez- Cepero**, Assistant Professor. BS, University of Puerto Rico Piedras Campus, 2011; MHSN, University of Puerto Rico Medical Sciences Campus, 2015; PhD, University of Massachusetts Medical School, 2019.
- Benjamin Lopman**, Professor. BS, University of Florida, 1999; MSc, London School of Hygiene and Tropical Medicine, 2000; PhD, Open University/Health Protection Agency, 2004. Infectious disease, epidemiology of viral gastroenteritis.
- Michele Marcus**, Professor. BS, Brooklyn College, 1974; MPH, 1981; PhD, Columbia University, 1986. Reproductive, environmental, neuroepidemiology.
- Lauren McCullough**, Associate Professor. BA, Vanderbilt University, 2005; MSPH, Meharry Medical College, 2007; PhD, University of North Carolina, 2013. Cancer pathophysiology, genetics, epigenetics and lifestyle factors.
- John E. McGowan Jr.**, Emeritus Professor. BMS, Dartmouth Medical School, 1965; MD, Harvard University, 1967.
- Ashley Naimi**, Associate Professor and Director of Graduate Studies. PhD, University of North Carolina, 2012. M. Sc, Université de Montréal, 2008. Reproductive and perinatal epidemiology; methods.
- Kristin Nelson**, Assistant Professor. PhD, Emory University, 2018; MPH, Emory University, 2014. Infectious disease; respiratory diseases; pathogen genomics.

EPIDEMIOLOGY

Godfrey P. Oakley Jr., Research Professor. MD, Bowman Gray School of Medicine, 1965; MSPM, University of Washington, 1972. Pediatric and perinatal epidemiology, with emphasis on birth defects, developmental disabilities, genetics.

Bradley Pearce, Research Associate Professor. BS, Florida State University, 1985; PhD, University of Miami, 1990. Schizophrenia heterogeneity and toxoplasma exposure, schizophrenia biomarkers, pathophysiological mechanisms of autism risk in patients.

Robin A. Richardson, Assistant Professor. BA, Oberlin College, 2001; MPH, Oregon Health and Science University, 2013; PhD, McGill University, 2018.

Elizabeth Rogowski McQuade, Assistant Professor. BS, Emory University, 2010; MSPH, University of North Carolina-Chapel Hill, 2012; PhD, 2015.

Travis Sanchez, Research Professor. DVM, University of Georgia, 1994; MPH, Emory University, 2000. Disease surveillance, HIV vaccine development, infectious disease.

Joellen Schildkraut, Jules and Uldeen Terry Distinguished Professor of Women's Health. BS, Pennsylvania State University, 1978; MPH, Yale University, 1982; PhD, Yale University, 1987. Molecular epidemiology of ovarian, breast and brain cancers, the interaction between genetic and environmental factors.

Amit Shah, Assistant Professor. BA, Princeton University, 2002; MD, University of Pennsylvania, 2006; MSCR, Emory University, 2011. Cardio-vascular disease epidemiology.

Sarita Shah, Professor. BA, Johns Hopkins University, 1996; MD, Johns Hopkins University, 2000; MPH, Columbia University, 2004. Drug-resistant TB and TB/HIV co-infection, infectious disease.

Regina Shih, Professor. BA, Johns Hopkins University, 2000; PhD, Johns Hopkins University, 2005. Addiction/substance abuse. mental health, aging, social epidemiology.

Aaron Siegler, Associate Professor. MHS, Johns Hopkins University, 2005; PhD, Emory University, 2012. Sexual minority health.

Anne C. Spaulding, Associate Professor; ScB, Brown University, 1984; MD, Medical College of Virginia, 1989; MPH, The Johns Hopkins University, 2005. Infectious and chronic disease epidemiology in correctional and drug-using populations.

Shakira Suglia, Professor. BS, University of Massachusetts, 1995; MS, University of Albany, 1997; ScD, Harvard University, 2006. Adolescent health, child health, chronic disease, social determinants of health.

Patrick Sullivan, Charles Howard Candler Distinguished Professor of Epidemiology. BS, Emory University, 1988; DVM, University of Tennessee, 1992; PhD, University of Tennessee, 1994. Infectious disease, surveillance, animal models for infectious diseases, zoonotic diseases, HIV vaccine development.

Yan V. Sun, Associate Professor. BS, Peking University, 1996; PhD, Wayne State University, 2001; MS, 2003. Human genetics.

Viola Vaccarino, Wilton Looney Professor. MD, Milan University Medical School, Italy, 1984; PhD, Yale University School of Medicine, 1994. Cardiovascular disease epidemiology.

Ronald Valdiserri, Research Professor. BA, Washington & Jefferson College, 1973; MD, West Virginia University School of Medicine, 1977; MPH, University of Pittsburgh, 1988. HIV/AIDS, Infectious Disease.

Kristin Wall, Assistant Professor. BS, University of Texas, 2006; MS, University of Texas, 2008; PhD, Emory University, 2012. HIV/AIDS, cancer screening.

Joshua D. Wallach, Assistant Professor. BA, University of California – Davis, 2012; MS, Stanford University 2017; PhD, Stanford University, 2017. Cancer epidemiology, cancer surveillance.

Kevin Ward, Research Assistant Professor. BIE, Georgia Institute of Technology, 1993; MPH, Emory University, 1998; PhD, 2008. Cancer epidemiology, cancer surveillance.

Rami Yacoub, Research Assistant Professor. PhD, University of Tishreen; MPH, Emory University, 2020. Oncology, cardiology, rare diseases.

Jointly Appointed Faculty

Mohammed K Ali, Associate Professor. MBChB, University of Cape Town, 2003; MSc, University of Oxford, 2006; MSc, 2007; MBS, Emory University, 2012. Hubert Department of Global Health.

Solveig Argeseanu Cunningham, Associate Professor. BA, George Washington University, 1997; MSc, London School of Economics, 2001; MA, University of Pennsylvania, 2003; PhD, University of

Pennsylvania, 2006.

Robert Bednarczyk, Associate Professor. BS, Lebanon Valley College, 1993; MS, SUNY-Albany, 2006; PhD, 2010. Hubert Department of Global Health.

Kenneth Castro, Professor. BS, University of Puerto Rico, 1974; MS, Northeastern University, 1976; MD, State University, MD 1980. Hubert Department of Global Health.

Thomas Clasen, Professor. JD, Georgetown University, 1981; MSc, London School, 2002; PhD, University of London, 2006. Department of Environmental Health.

Hannah Cooper, Professor. BA, Yale University, 1993; SM, Harvard University, 1998; ScD, 2003. Department of Behavioral Sciences and Health Education.

Natalie Dean, Assistant Professor. BA, Boston University, 2009; MA, Harvard University, 2011; PhD, 2014.

Stefanie Ebelt, Associate Professor. BSc University of British Columbia, 1997; MSc, University of British Columbia, 2000; ScD, Harvard University, 2005.

Stephanie Eick, Assistant Professor. BS Michigan State University, 2014; MPH Emory University, 2016; PhD, University of Georgia, 2019.

Christine C. Ekenga, Assistant Professor. PhD, New York University.

Todd Everson, Assistant Professor. BS, Colorado State University, 2006; MPH 2011, Oregon health and Science University, 2011; PhD, University of South Carolina, 2015.

Matthew Freeman, Professor. BA, Wesleyan University, 2000; MPH, Emory University, 2005; PhD, London School of Hygiene and Tropical Medicine. Gangarosa Department of Environmental Health.

Amy Webb Girard, Research Associate Professor. BS, Mercer University, 1997; PhD, Emory University, 2006. Hubert Department of Global Health.

Abhinav Goyal, Associate Professor. BS, Northwestern University, 1996; MHS, Duke University, 2006; MD, Northwestern University, 1999. Emory University School of Medicine.

Sanjay Gupta, Associate Professor. BS, University of Michigan, 1989; MD, University of Michigan, 1993.

Jessica Harding, Assistant Professor. PhD, Baker Heart and Diabetes Institute, 2016.

Ellen L. Idler, Professor. BA, College of Wooster, 1974; MA, Rutgers University, 1976; PhD, Yale University, 1985. Department of Sociology, Emory College.

Jesse Jacob, Associate Professor. MD, University of South Florida, 2001; MBA, 2011; MSCR, Emory University, 2011. Emory University School of Medicine.

Denise Jamieson, Professor. MPH, University of North Carolina at Chapel Hill, 1991.; MD Duke University School of Medicine, 1992.

Theodore Johnson, Professor. AB, Brown University, 1985; MD, Northwestern University, 1990; MPH, University of North Carolina, 1997. Emory University School of Medicine.

Dio Kavalieratos, Associate Professor. PhD, University of North Carolina at Chapel Hill, 2013.

Colleen Kelly, Assistant Professor. MD, Emory University, 2004; MPH, 2004. Emory University School of Medicine.

Jordan Kempker, Assistant Professor. MD, University of Florida, 2007; MSc, Emory University, 2013.

Amy Kirby, Adjunct Assistant Professor. BS, University of Georgia, 1997; PhD, The State University of New York, SUNY-Buffalo, 2003; MPH, Emory University, 2012. Hubert Department of Global Health.

Uriel Kitron, Professor. BSc, Hebrew University, 1975; PhD, University of California, 1981; MPH, University of Michigan, 1982. Department of Environmental Studies, Emory College.

Jeffrey Koplan, Professor. BA, Yale University, 1966; MD, New York University, 1970; MPH, Harvard University, 1978.

Christian Larsen, Professor, MD, Emory University, 1984, PhD University of Oxford, 1990; Emory University School of Medicine

Max Lau, Assistant Professor. PhD,

Juan S. Leon, Associate Professor. BA, Dartmouth College, 1996; MPH/PhD, Northwestern University, 2003. Hubert Department of Global Health.

Karen Levy, Associate Professor. BA, Stanford University, 1995; MSc, University of California, Berkeley 2002; MPH, 2006; PhD, 2007. University of Washington

S. Sam Lim, Professor. BA, Duke University; MD, State University of New York at Brooklyn.

EPIDEMIOLOGY

Emory University School of Medicine.

Matthew Magee, Associate Professor. MPH, University of Illinois, 2006; PhD, Emory University, 2013. Hubert Department of Global Health.

Scott J. N. McNabb, Visiting Professor. BS, University of Oklahoma, 1972; MS, 1979; PhD, 1986. Hubert Department of Global Health.

Walter Orenstein, Professor. BS, City College of New York, 1968; MD, Albert Einstein College of Medicine, 1972. Emory University School of Medicine

Matthew Oster, Assistant Professor. BS, Vanderbilt University, 1999; MD, University of Pennsylvania, 2004; MPH, Emory University. Emory University School of Medicine.

Victoria M. Pak, Assistant Professor. BSN, University of Pennsylvania, 2005; MS/PhD, University of Pennsylvania, 2011; MTR University of Pennsylvania, 2016.

Ruth Parker, Professor. BS, Davidson College, 1977; MD, University of North Carolina, 1981. Emory University School of Medicine.

Stephen Pitts, Associate Professor. BA, University of Texas at Austin, 1975; MD, Southwestern Medical School, 1979; MPH, Emory University, 1992.

Laura Plantinga, Associate Professor. ScM, Johns Hopkins University, 2002; PhD, Emory University, 2014. Divisions of Renal Medicine, Transplant, and Geriatrics, Emory University.

Katherine Ross-Driscoll, Assistant Professor.

Sarita Shah, Associate Professor. BA, Johns Hopkins University, 1996; MD, Johns Hopkins School of Medicine, 2000; MPH, Columbia University, 2004.

Stephanie L. Sherman, Professor. BS, North Carolina State University, 1971; PhD, Indiana University, 1981. Emory University School of Medicine.

David S. Stephens, Professor. BS, The Citadel, 1970; MD, Bowman Gray University, 1974. Emory University School of Medicine.

Jay Basil Varkey, Associate Professor.

Gonzolo Vazquez-Prokopec, Associate Professor.

Peter W. Wilson, Professor. BS, Yale University, 1970; MD, University of Texas Medical School at San Antonio, 1974. Emory University School of Medicine.

Inci Yildirim, Assistant Professor. MD, Hacettepe University, 1999; MSc, Hacettepe University, 2007; PhD, Boston University, 2009. Emory University School of Medicine.

Adjunct Faculty

Hani Atrash, Adjunct Associate Professor. MD, King Abdul-Aziz University, 1991; MMed, 2009. King Abdul-Aziz University.

Ki Moon Bang, Adjunct Professor. MPH, Seoul Nation University, 1966; MS, University of Minnesota, 1974; PhD, University of Texas Medical Branch, 1981.

Kyle Bernstein, Adjunct Assistant Professor. BA, Brown University, 1997; MS, The Johns Hopkins University, 1999, Phd, 2005.

Allison Brown, Adjunct Assistant Professor. BA, University of Virginia, 1997; MPH, Yale University, 2004; PhD. The Johns Hopkins University, 2010. US Centers for Disease Control and Prevention.

Peter Cegielski, Adjunct Associate Professor. BA, Harvard University, 1979; MD, University of California, 1984; MPH, 1995. US Centers for Disease Control and Prevention.

Daniel Crimmins, Adjunct or Visiting Professor. BA, Binghamton University, 1975; MA, Binghamton University, 1978; PhD, Binghamton university, 1984.

Lyndsey Darrow, Adjunct Associate Professor. PhD, Emory University, 2008. University of Nevada.

Veronika Fedirko, Adjunct Associate Professor. BSc, National University of Kyiv–Mohyla Academy, 2002; MPH, Emory University, 2005; PhD, 2009. M.D. Anderson Cancer Center.

Ivo Foppa, Adjunct Associate Professor. MD, University of Bern, 1991; MS, Harvard University, 1995; DSc, Harvard University, 2001. US Centers for Disease Control and Prevention.

Cindy Friedman, Adjunct Assistant Professor. MD, Ross University, 1989. US Centers for Disease Control and Prevention.

Katherine Gass, Adjunct Assistant Professor. BA, Oberlin College; MPH, Emory University; PhD, Emory University. Task Force for Global Health.

Mia Gaudet, Adjunct Assistant Professor. MSPH, University of North Carolina, 2001; PhD, 2005. National Cancer Institute.

- Stefan Goldberg**, Adjunct Assistant Professor. BA, Columbia College, 1977; MD, University of Colorado, 1981. US Centers for Disease Control and Prevention.
- Neela Goswami**, Adjunct Assistant Professor. BS, Stanford University, 2002; MD, Johns Hopkins University, 2006; MPH, University of North Carolina, 2013. US Centers for Disease Control and Prevention.
- Matthew O. Gribble**, Adjunct Associate Professor. BA/BS, Stanford University, 2009; PhD, Johns Hopkins University, 2013. Department of Environmental Health.
- Marta Gwinn**, Adjunct Professor. BA, University of Louisville, 1977; MD, Vanderbilt University, 1981; MPH, University of North Carolina, 1990. US Centers for Disease Control and Prevention.
- Xuesong Han**, Adjunct Professor. MS, Tsinghua University, 2004; PhD, Yale University, 2010. US Centers for Disease Control and Prevention.
- Alan Hinman**, Adjunct Professor, MD, Western Reserve University, 1961; MPH, Harvard Schools of Public Health, 1969. Center for Vaccine Equity at the Task Force for Global Health.
- Dale J. Hu Jr.**, Adjunct Associate Professor. BA, Stanford University, 1983; MD, University of California at San Diego, 1987; MPH, Johns Hopkins University, 1989. US Centers for Disease Control and Prevention.
- Farhad Islami**, Associate Professor. MD, Tehran University of Medical Sciences, 1994; PhD, King's College London, 2010.
- A. Danielle Iuliano**, Adjunct Assistant Professor. BA, Emory University, 2000; MPH, Emory University, 2002; PhD, University of Pittsburgh, 2008. US Centers for Disease Control and Prevention.
- Ahmedin Jemal**, Adjunct Associate Professor. DVM, Addis Ababa University, 1986; MS, Louisiana State University, 1993; PhD, Louisiana State University, 1997.
- Camara Jones**, Adjunct Professor. BA, Wellesley College, 1976; MD, Stanford University, 1981; MPH, John Hopkins University, 1982; PhD, Johns Hopkins University, 1995.
- Nicole Luisi**, Adjunct Associate Professor. BA, Moravian College, 2003; MPH, Ease Stroudsburg University, 2005; MS, University of Massachusetts, 2014.
- Marjorie L. McCullough**, Adjunct Associate Professor. BS, Michigan State University, 1983; MS, MGH Institute of Health Professions, 1986; ScD, Harvard University, 1999. American Cancer Society.
- A.D. McNaghten**, Adjunct Professor. MHSA, Ohio University, 1990; PhD, Ohio University, 1994. US Centers for Disease Control and Prevention.
- Ravi Mehrotra**, Adjunct Professor. MBBS, University of Poona Armed Forces medical College, 1980; MD, University of Allahabad Moti Lal Nehru Medical College, 1983; PhD, University of Allahabad, 2010; FRCPath, Royal College of Pathology, 2011.
- Gregory Noland**, Adjunct Associate Professor. PhD, Johns Hopkins University, 2007; MPH, Emory University, 2018.
- Paolo Raggi**, Adjunct Faculty, MD, University of Bologna, Medical School, 1985. The Long Island College Hospital.
- Carrie Reed**, Adjunct Instructor. MPH, Boston University, 2003; DSc, Boston University, 2007. US Centers for Disease Control and Prevention.
- Eli Rosenberg**, Adjunct Assistant Professor. BS, Cornell University, 2006; PhD, Emory University, 2012. University at Albany-SUNY.
- Edgar Simard**, Adjunct Assistant Professor. BS, Southern Connecticut State University, 1999; MPH, Emory University, 2004; PhD, State University of New Jersey.
- Robert Smith**, Adjunct Professor. PhD, SUNY at Stony Brook, 1983.
- Victoria Stevens**, Adjunct Assistant Professor. BS, Emory University, 1981; PhD, Emory University, 1988. American Cancer Society.
- Kelli Stidham-Hall**, Adjunct Associate Professor. BS, University of Kentucky, 2003; MS, 2006; MPhil, Columbia University, 2008; PhD, 2010.
- Kathleen E. Toomey**, Adjunct Associate Professor. AB, Smith College, 1973; MPH, Harvard University, 1979, MD, 1979.
- Andrew Vernon**, Adjunct Associate Professor. MD, Harvard Medical School, 1975; MHS, Johns Hopkins University. US Centers for Disease Control and Prevention.
- Andrew Voetsch**, Adjunct Associate Professor. BA, Emory University, 1993; MPH, 1995; PhD,

EPIDEMIOLOGY

University of North Carolina, 2005.

Andrea Winquist, Assistant Professor. MD, Northwestern University, 1993; PhD, Emory University, 2009. US Centers for Disease Control and Prevention.

Carla A. Winston, Adjunct Assistant Professor. BA/MA, Stanford University, 1994; PhD, Emory University, 2003. US Centers for Disease Control and Prevention.

Epidemiology Course Descriptions

EPI 504 (2) Fundamentals Of Epidemiology

SPRING. Emphasizes the underlying concepts of the epidemiological approach, stressing study design. Discusses the calculation and interpretation of measures of frequency, association, and public health impact. Discusses sources of study error including the influence of chance, bias, confounding, and effect modification.

EPI 508 (1) Maternal Child Health Leadership Collaborative Seminar

FALL. As a cross-institutional course lead by faculty from RSPH and Georgia State University, the Leadership Collaborative Seminar will provide a tailored interdisciplinary forum focused on building the necessary attitudes and relationships to prepare the next generation of health leaders to provide and promote coordinated, comprehensive, culturally competent care, programs, and policies for diverse MCH populations. MCH Certificate students only.

EPI 509 (2) Health Equity in Systems of Care for Children with Special Health Care Needs

SPRING. MCH Certificate Student only.

EPI 510 (1) Introduction to Genetic and Molecular Epidemiology

FALL. This course will introduce basic principles of genetic and molecular epidemiology through interactive discussion with leading researchers in the field. This is a stand-alone course but is also a prerequisite for the Genetic and Molecular Epidemiology Certificate Program.

EPI 511 (1) Social Determinants of Health Seminar

FALL. This course will introduce students to the breadth of SDOH related research that is being conducted by Emory RSPH and ECAS faculty affiliated with the SDOH certificate program. Students will also be exposed to community groups addressing SDOH issues. This course is a required core course for the SDOH certificate program.

EPI 512 (1) Current Topics in Infectious Disease Epidemiology

FALL. Pre-requisite: Current enrollment in the Infectious Disease Epidemiology Certificate program at RSPH. Non-certificate students may enroll with permission of the instructor. Infectious disease epidemiology incorporates the fundamental principle that a person's risk of infection often depends on the disease status of another person or the disease prevalence at the population level. Therefore, events are not independent, violating a key assumption of classic epidemiological methods and requiring a different set of methods to approach infectious diseases. This course is a requirement of the Infectious Disease Epidemiology Certificate at RSPH. It will provide incoming students an orientation to the breadth of current topics in the field of infectious disease EPI.

EPI 515 (3) Transforming Public Health Surveillance

FALL. Transforming Public Health Surveillance (TPHS) provides a review of the history, purposes, activities, uses, elements, data sources, models, analyses, actions, reports, evaluation, and ethical and legal issues of public health surveillance (PHS). It helps students understand the critical importance of the direct association between PHS and public health action, plus develop skills and competencies with the use of data-information-messages and the information and communication technologies that enable, enhance, and empower them. TPHS describes informatics approaches to enable and enhance data sharing, analytics, and visualization though interoperability that adapts to meet the challenges as PHS moves from analog to digital and demonstrates how PHS core functions (i.e., detection, registration, confirmation, analysis, feedback, communication, and response) will be enabled,

enhanced, and empowered by these opportunities. Cross-listed with GH 515.

EPI 516 (2) Issues In Women’s Health

FALL. Prerequisite: EPI 504 or EPI 530 and BIOS 500. This course presents issues in women of being female but not pathologies of reproduction. These include cardiovascular disease, osteoporosis, and breast and cervical cancer. In addition, health problems related to the physiological and psychological aspects of being female are addressed. These include depression, premenstrual syndrome, addictive behavior, and violence perpetrated by and against women.

EPI 517 (2) Case Studies in Infectious Disease Epidemiology

FALL. This course provides practical training in the investigation, control, and prevention of infectious diseases. Historic and current case studies will be used to teach skills for identifying infectious disease outbreaks, conducting epidemiologic analyses to describe causal factors and affected populations, and implementing public health control measures in collaboration with stakeholders. This course is cross-listed with GH517.

EPI 523 (1) Health Promotion in Criminal-Legal Settings

SPRING. Prerequisites: EPI 530 or EPI 504 and BIOS 500 or instructor permission. Roughly ten million persons pass through a jail or prison each year in the United States. This half-semester, seminar-style course will explore the possible impact of the criminal justice system on the epidemiology of infectious diseases and on health indicators in general. The correctional setting will be used as a case study to illustrate how environment, public policy, behavior and biology all interact to determine the well-being of a population. Lessons learned from studying correctional health are applicable to understanding the determinants of health for other institutionalized populations and in other controlled settings. We have plans to make a trip to a local correctional facility.

EPI 530 (4) Epidemiologic Methods I

FALL. Prerequisite/concurrent: BIOS 500. Emphasizes the concepts and premises of the science of epidemiology. Methods of hypothesis formulation and evaluation are stressed. Techniques for quantifying the amount of disease (or other health indicator) in populations are introduced, followed by discussion of epidemiologic study designs useful for identifying etiologic factors and other relevant correlates of disease. Students gain facility with the calculation of basic epidemiologic measures of frequency, association, and impact. The concepts of random variability, bias, and effect modification are examined in detail. The use of stratified analysis, including Mantel-Haenszel techniques, is explored. Inferences from study results are discussed. Students are required to analyze and critique studies from the current medical and scientific literature.

EPI 531 (2) Field Epidemiology

SPRING. Uses a series of case studies to teach the principles and practice of epidemiology.

EPI 532 (2) Epidemiology of Sexually Transmitted Diseases

SPRING. Prerequisite/concurrent: EPI 530 or EPI 504. The purpose of the course is to familiarize students with the current purview of sexually transmitted disease in the developing and industrialized world.

EPI 533 (1) Programming In SAS

SPRING. Provides an introduction to SAS programming environment and instructs students in the techniques needed to create, organize, and edit data into a final dataset that is ready for epidemiologic analysis.

EPI 534 (2) Statistical Programming

FALL. Provides an introduction to the SAS and R programming environments and instructs students in the techniques needed to create, organize, and edit data into a final dataset that is ready for epidemiologic analysis.

EPIDEMIOLOGY

EPI 535 (2) Designing and Implementing Epidemiologic Studies

SPRING. Prerequisite: EPI 530. The purpose of this course is to provide students with practical skills and knowledge for designing, starting and implementing epidemiologic studies in research and practice.

EPI 537 (2) Epidemiology Of Chronic Disease

FALL. Prerequisite/concurrent: EPI 530. The course surveys selected chronic disease topics to illustrate applications of epidemiologic concepts. The goal of this course is to provide an overview of the descriptive epidemiology, risk factors and preventive strategies for major chronic diseases, and use chronic disease epidemiology to foster the ability to critically read and appraise the epidemiologic literature.

EPI 539 (3) Epidemiologic Concepts and Analysis

SPRING. Pre-requisites: BIOS 500, EPI 530, and EPI 534 or EPI 533 (concurrent ok). This course is designed for students outside of the Department of Epidemiology, and further develops epidemiologic concepts introduced in Epidemiologic Methods I. The course presents a more advanced discussion of issues related to bias, study design, and interaction. It also includes an introduction to logistic regression for epidemiologic analyses.

EPI 540 (4) Epidemiologic Methods II

SPRING. Prerequisites EPI 530, BIOS 500, EPI 534 and BIOS 591P or BIOS 501 concurrent. This course develops epidemiologic concepts introduced in EPI 530: Epidemiologic Methods I, providing a more advanced discussion of issues related to causality, bias, study design, interaction, effect modification and mediation. It will also provide opportunities for the application of these examples via analysis of epidemiologic data.

EPI 541 (2) Hospital/Healthcare Epidemiology

SPRING. Prerequisites/concurrent: EPI 504 or EPI 530 and BIOS 500. This course will provide training in the investigation, control, and prevention of hospital acquired infectious diseases and other hospital events by the use of appropriate epidemiologic techniques, both descriptive and analytic.

EPI 542 (1) Epidemiology of Tuberculosis

SPRING. Prerequisite: EPI 504, or EPI 530, or co-requisite. To provide training in the domestic and international public health aspects of tuberculosis; its epidemiology and diagnosis, the theory and practice of treatment, and means of prevention in developed and developing countries; and the interaction between HIV and tuberculosis. Cross-listed with GH 562.

EPI 543 (2) Cardiovascular Disease Epidemiology

SPRING. Prerequisite: EPI 530 or EPI 504. This course provides an overview of cardiovascular pathophysiology and applies epidemiology methods to published research studies in the cardiovascular prevention space. The course will foster students' abilities to understand and critically evaluate cardiovascular epidemiology and covers related topics involving social determinants, disparities, and genetic/molecular mechanisms.

EPI 544 (1) Epidemiology of Foodborne and Diarrheal Diseases

FALL. Prerequisite/concurrent: EPI 504 or EPI 530. This course covers the basic epidemiology of infectious foodborne and diarrheal diseases of the United States and the world. Uses the study of these diseases and outbreak investigations to develop broadly applicable epidemiologic skills. Explores dynamic relationship between changing global environment and human health distribution, changes in the human population.

EPI 545 (4) Advanced Epidemiologic Methods II

SPRING. Prerequisites EPI 530, BIOS 500, EPI 534, and BIOS 591P concurrent. MSPH and PhD students only. This course builds on the fundamental epidemiologic concepts introduced in EPI 530:

Epidemiologic Methods I. Specifically, causality, bias (including confounding, information bias, and selection bias), and concepts of mediation and interaction will be revisited in greater depth. By the end of the course, students will be able to do the following: formulate research questions to evaluate causality; evaluate the strengths and limitations of epidemiologic studies; assess how the strengths and limitations of a study affect interpretation of study results; utilize epidemiologic methods to address confounding; identify epidemiologic methods to address selection bias and information bias; and calculate measures to assess interaction.

EPI 546 (2) HIV Epidemiology

SPRING. Prerequisites: EPI 530 and BIOS 500 or instructor permission. Explores the epidemiology of the HIV epidemic in the US through a detailed examination of the major types of epidemiologic studies that have led to our current understanding of the epidemic. Students gain an understanding of important issues in the epidemiology of HIV in the US, and, as importantly, increase their understanding of the strengths and weaknesses of various epidemiologic study designs and the interpretation of data from such studies.

EPI 547 (2) Public Health Applications of Molecular Epidemiology

SPRING. Prerequisite: EPI 530 and fundamental knowledge of human biology. Molecular epidemiology encompasses topics beyond the recent era of “-omics.” Biospecimens have been analyzed to evaluate exposures and health states for decades. We will cover applications of molecular epidemiology used to protect or improve public health, including biospecimen collection, assay techniques, and disease biomarkers. Topics will include: (a) cholesterol in heart disease, (b) methods of infectious disease surveillance (COVID-19, zoonotic diseases), and (c) molecular aspects of the opioid crisis.

EPI 548 (2) Systematic Reviews and Meta Analysis

SPRING. Prerequisite: EPI 530. Introduces the basic concepts and premises of the systematic reviews and meta-analysis of epidemiologic studies.

EPI 550 (4) Epidemiologic Methods III

FALL. Prerequisites: EPI 530, 533/534, 539/540/545, BIOS 500, and 591P. Covers concepts, methods, and application of key mathematical modeling approaches used to evaluate multivariable data from epidemiologic studies: logistic regression, Cox regression, collinearity, modeling strategy for determining a best model, goodness of fit, and ROC curves. The course also teaches a broader philosophy and approach for constructing the appropriate models for answering the question under study.

EPI 552 (2) Human Genome Epidemiology

SPRING. Prerequisite/Concurrent: EPI 504 or EPI 530. This course will introduce students to applications of epidemiologic methods and approaches to evaluating the use of human genetic discoveries in the practice of medicine and public health in the 21st century. With the completion of the human genome project, the epidemiologic approach is now urgently needed to assess the prevalence of genetic variation in the population, to characterize the burden of disease associated with genetic variation and with gene- environment interaction, and to evaluate the impact of genetic tests in reducing morbidity and mortality. At the end of the course, participants should be able to identify types of information needed to translate genetic discoveries into medicine and public health and be able to review and evaluate such information in the scientific literature. The course is designed for public health students interested in the intersection of epidemiology, genetics, preventive medicine, and health policy.

EPI 554 (3) Religion and Public Health

FALL. This course will provide graduate students and advanced undergraduate students with a sociologically-oriented interdisciplinary survey of research on the intersection of public health and religious practices and beliefs in individuals and populations. Religion is one factor among many others in social environment that to some extent determines the health in the lives of individuals, their families

EPIDEMIOLOGY

and social networks, health professionals, and the institutions in which they interact. The course will emphasize evidence from quantitative social sciences and epidemiology, the role of religion in the historical development of public health institutions, and the theoretical social science origins of religion and health research. Under the large umbrella of health research, we will be attempting to map the part of the field that is distinctively oriented to public health, rather than to medicine.

EPI 556 (2) Applied Genomic Epidemiology

FALL. Prerequisites: BIOS 500 and EPI 552 or instructor permission. Knowledge of R is recommended. Genomic epidemiology is an increasingly important approach to studying disease risks in populations. This course will introduce the basic genetic principles as they apply to the identification of genetic variations associated with disease; illustrate the population and quantitative genetic concepts that are necessary to study the relationship between genetic variation and disease variation in populations; and provide hands-on experience to address the analytical needs for conducting genomic epidemiologic research. Students will gain experience with R and PLINK using high dimensional genetic data.

EPI 558 (2) Global Issues in Antimicrobial Resistance

SPRING. Develops tools to understand the microbiological, behavioral, and economic factors that contribute to the expanding epidemic of infectious diseases that may become untreatable due to the emergence of resistance. Provides a framework for intervention studies. Cross-listed with GH 558.

EPI 560 (4) Epidemiologic Methods IV

SPRING. Prerequisite: EPI 530, 545, and 550 and/or instructor permission. This course covers epidemiologic concepts in further depth than previous methods courses and provides an overview of advanced topics in the analysis of epidemiologic data. The course reviews basic concepts behind cohort studies, and introduces students to fundamental survival analysis concepts, including risk and survival, hazards, competing risks, cause-specific and sub-distribution risk, risk difference, and risk ratio estimators. Generalized linear models for conditionally and marginally adjusted risk differences and ratios, as well as methods for correct variance estimation. Concepts of time-dependent confounding, and methods that can be used to analyze complex longitudinal data (IP weighting, marginal standardization). This is a required course for students in the MSPH and PhD Epidemiology program.

EPI 561 (2) Methods in Obesity Epidemiology

SPRING. The focus of this course is on the epidemiology of obesity, its determinants, and consequences, and population-based methods for investigating obesity. The course will entail a survey of obesity research, including: (1) the biology and physiology of adiposity; (2) behavioral, environmental, social, and genetic determinants of obesity; and (3) the health consequences of obesity. Methodologic concepts in the practice of research, including those related to measurement, modeling and interpretation, will be emphasized in this course.

EPI 562 (2) Emerging Infectious Diseases

SPRING. Prerequisite/concurrent: EPI 504, or EPI 530 or permission of instructor. This course examines factors that contribute to the emergence and re-emergence of infectious diseases, and provides a framework for assessing the public health threat from infectious diseases and for recommending an appropriate response. Fundamental principles of infectious disease surveillance and epidemiology as well as pathogenesis will be addressed. Previous course work in microbiology strongly preferred. Cross-listed with GH 518.

EPI 563 (3) Concepts and Applications in Spatial Epidemiology

SPRING. Prerequisites: Prior coursework in introductory GIS (e.g. INFO530) and multivariable regression. Spatial EPI includes both the characterization of the geographic distribution of disease, and the investigation of the role of spatially structured processes/exposures as determinants of disease in populations. Upon completion, students will be able to evaluate epidemiologic research using common spatial analytic approaches; match appropriate methods to specific epidemiologic needs or questions;

prepare effective visualizations of spatial data; conduct statistical cluster or autocorrelation analysis; estimate model-based disease risk maps; and conduct basic exploratory spatial regression.

EPI 564 (2) Public Health Preparedness and Practice

FALL. This course will acquaint students with the comprehensive nature of public health preparedness and response efforts for disasters whether natural or man-made. Students will get introduced to practical considerations of public health preparedness from the local, state, and national levels. Discussions of specific preparedness elements necessary for responses to natural disasters and man-made events will be covered, often in consultation with guest speakers and experts in various aspects of public health preparedness and practice. Ethical and legal issues related to preparedness and bioterrorism are also discussed. Students can expect interactive discussions, assigned readings, in-class exercises, and a project and/or paper.

EPI 565 (2) Data Sources and Methods for Maternal and Child Health Epidemiology

SPRING. Prerequisites: EPI 530 or EPI 504, BIOS 500 and knowledge of SAS. This course introduces students to data sources and methods commonly used by epidemiologists in state or provincial health departments. Data sources include websites, census, vital statistics, surveys (PRAMS). Methods include record linkage, questionnaire design, mapping, trend analysis, perinatal periods of risk, cluster investigation, small number analysis and secondary data analysis.

EPI 566 (2) Immunization Programs and Policies

FALL. Provides an introduction to the entire spectrum of vaccines and immunization: from basic bench research through testing, licensure, and use; program design, implementation and evaluation; and social, economic, and political factors affecting the use of vaccines. Primary emphasis will be on the international setting but examples will also be taken from developed countries. Cross-listed with GH 566.

EPI 567 (2) Epidemiology of Aging Populations

SPRING. Prerequisites: EPI 537 or instructor permission. This course introduces the student to the epidemiology of aging populations. Aging and health are characteristics of both individuals and populations. Students will be introduced to the distribution of and trends in chronic disease morbidity, functional disability, and mortality, with a focus on methods for epidemiologic research in aging populations.

EPI 568 (2) Applying Quantitative Bias Analysis to Epidemiologic Research

FALL. Pre-requisites: EPI 530, EPI 534 and EPI 540 or 545 or instructor permission. Observational epidemiologic studies yield estimates of effect that differ from the true effect because of random error and systematic error. Epidemiologists design studies and analyses to minimize both sources of error. When presenting results, epidemiologists use statistics to quantify the impact of random error on estimates of effect, but often only qualitatively describe residual systematic error (uncontrolled bias). Bias analysis provides one method of quantifying residual systematic error. Students in this course will learn how to use simple, multidimensional, and probabilistic bias analyses, as well as direct bias modeling (regression calibration and missing data methods) to account for systematic error in their estimates of effect. Students should expect to gain new skills, as the emphasis of the course will be on the implementation and conduct of bias analysis, rather than statistical theory.

EPI 569 (3) Concepts and Methods in Infectious Disease Epidemiology

FALL. The course will provide an overview of the history, concepts and analytical methods that specifically apply to the study of infectious diseases. Topics covered include measures of frequency, burden and natural history; immune-epidemiology; vaccine epidemiology; methods for emerging infectious diseases; fundamentals of modeling and the application of classic epi methods to infectious diseases. Prerequisites: EPI 530 and EPI 540 with experience using R. This is a required course for the Infectious Disease Epidemiology certificate program.

EPIDEMIOLOGY

EPI 570 (3) Infectious Disease Dynamics: Theory and Models

SPRING. This course will present the conceptual theory, mathematical framework, and computational tools to conduct mechanistic modeling of infectious diseases.

EPI 584 (2) Epidemiology of Cancer

FALL. Pre-requisites: EPI 504 or 530 or instructor permission. The primary objective of this course is for the student to gain basic knowledge about cancer and issues and methodologies relevant to investigating cancer etiology, prevention, and control using epidemiologic methods. Secondary objectives are for the student to gain experiences in critiquing published cancer epidemiology articles and conducting a literature review and writing a summary of a topic in cancer epidemiology.

EPI 589 (2) Psychosocial Epidemiology

FALL. Pre-requisites: EPI 504 or EPI 530. Epidemiology is the study of the distribution and determinants of disease. Psychosocial Epidemiology is growing subfield of Epidemiology that examines how psychological and social factors influence physical health and disease in human populations. Because the field of Psychosocial Epidemiology is heavily influenced by observational data, the concepts of confounding, mediation and effect modification will be emphasized throughout the course. Class sessions will consist of presentations by the professor; interactive discussions about key topics, assigned readings and in-class assignments; viewing and discussion of educational DVDs; and student presentations.

EPI 590R (3) EPI Seminar

FALL/SPRING. Various topics by Epi faculty. Current topics include Sleep Epidemiology, Epidemiology of Respiratory Illness, and Fundamentals of Pathophysiology for Public Health.

EPI 591L (2) Methods in Nutritional Epidemiology

FALL. Pre-requisites: EPI 530, EPI 533 or instructor permission. Experience with SAS preferred. This course is designed for students interested in studies of diet and health outcomes. The course provides an overview of methods for estimating dietary intakes. Issues related to the collection, processing, analysis and manipulation of dietary data in relation to foods dietary patterns, nutrients, and dietary supplements will also be addressed. Students will also have the opportunity to apply methods for manipulating dietary data including understanding variation in diet, comparing methods for energy adjustment, manipulating raw data to create food grouping variables for dietary pattern analysis and calculating a dietary score.

EPI 591S (2) Social Epidemiology

SPRING. Pre-requisites: EPI 504 or EPI 530. This course will focus on social factors influencing health and disease in human populations. With an emphasis on theory, methods, and evidence, several topics of contemporary interest to public health research will be covered: (1) social status; (2) race, ethnicity and racism; (3) discrimination; (4) sex and gender; (5) police brutality; (6) health literacy; (7) immigration/acculturation/assimilation; (8) religion; (9) geography and place; (10) neighborhood; (11) social support; (12) stress; (13) love/compassion. This is a breadth course intended to provide an overview of the field of social epidemiology.

EPI 594 (3) Advanced Applied Methods in Social Epidemiology

SPRING. Prerequisites: EPI Methods sequence (e.g. EPI 530, 540/545) and generalized linear regression modeling (e.g. EPI 550 or BSHES 532). This course introduces concepts and applications in several areas including the measurement of health inequalities, challenges to causal inference in social epidemiology, and multi-level thinking and analysis.

EPI 595 (0) Applied Practice Experience

FALL/SPRING/SUMMER. An Applied Practice Experience (APE) is a unique opportunity that enables students to apply practical skills and knowledge learned through coursework to a professional public health setting that complements the student's interests and career goals. The APE must be supervised by a Field Supervisor and requires approval from an APE Advisor designated by the student's academic department at RSPH.

EPI 596 (3) Maternal Child Health

SPRING. This is the foundational course for the Maternal and Child Health Certificate. It covers historical and theoretical underpinnings of maternal and child health problems and programs aimed to reduce morbidity, mortality, and health disparities. Skills in program planning and evaluation are taught through multidisciplinary teams working with academic and field-based faculty in local, state, federal, and nongovernmental agencies. Maternal and child health is defined as a field of public health that addresses underlying forces for these problems, the historical framework for ameliorating those problems, and current programs and policies that have evolved from that historical context. Maternal and child health programs are unique to reproduction and life course development; more common in women, infants, children, or adolescents; more serious in women, infants, children, or adolescents; or have manifestations, risk factors, or interventions that are different in women or during life course development.

EPI 597R (7) Directed Study

FALL/SPRING/SUMMER. Provides the opportunity to pursue a specialized course of study in an area of special interest. Complements rather than replaces or substitutes for coursework.

EPI 598C (4) Capstone

SPRING. This course provides an opportunity for students to apply the epidemiologic and biostatistical skills that they obtained during their coursework to real-world public health data. Students are presented a problem or research question from a public health organization along with available data that can be used to address the question(s) at hand. The class will be divided into groups of five, with each group working on a distinct, but related question that is relevant for the partnering organization. Students conduct background research to understand the scope and context of the question(s) and conduct relevant analyses. The research findings are presented in a variety of formats. Throughout this course, students continue to develop their professional skills through effective teamwork, giving and receiving feedback, and journal article discussions.

EPI 598R (4) MPH Thesis Research

FALL/SPRING/SUMMER. Enables students to apply the principles and methods learned in an academic setting through the preparation of a monograph that embodies original research.

EPI 599R (4) Thesis

FALL/SPRING/SUMMER. Enables students to apply the principles and methods learned in an academic setting through the preparation of a monograph that embodies original research applicable to public health, incorporating a hypothesis that has been successfully evaluated with appropriate statistical and epidemiological techniques and is potentially publishable and has public health impact.

EPI 710 (2) Probability Theory for Epidemiology

FALL. This course provides doctoral students with an in-depth view of how probability theory is applied to epidemiologic concepts. The course will include two overarching segments: elements of probability and random variables and distributions.

EPI 730 (2) Epidemiology Grant Writing Course

PhD students only. This course provides an opportunity to apply information learned in methods and substantive courses to the very practical task of gaining funding for research projects.

EPI 731 (3) Analytical Foundations of Epidemiology

PhD students only. Designed specifically for Epidemiology PhD students to learn statistical theory in the context of epidemiologic concepts and examples. The aim of the course is for students to understand the theories that underlie the statistical techniques used in epidemiologic research and to enhance critical think and integration of this material with broader epiemiologic principles.

EPI 738R (2) Advanced EPI Methods I

SPRING. Covers a wide variety of topics in epidemiologic methodology. Topics will include basic

EPIDEMIOLOGY

epidemiologic measures, confounding, misclassification, selection bias, types of case-control studies, Berkson of epidemiologic parameters. Prerequisite: EPI 530, EPI 534, BIOS 500, BIOS 501 (EPI 534 and BIOS 501 may be taken concurrently). Doctoral student section.

EPI 739 (2) Epidemiologic Methods V

FALL. Deals with a wide variety of topics in quantitative epidemiological methodology. Topics will include concepts of study design and the relationship to hazard rates and ratios, conditional logistic regression, polytomous logistic regression, continuation odds ratio models, and Poisson regression. Prerequisite: EPI 530, EPI 534, BIOS 500, BIOS 510 (may be taken concurrently). Permission required.

EPI 744 (2) Pediatric & Perinatal Epidemiology

FALL. A survey course to review the current knowledge about various topics related to factors that affect pregnancy outcome. Introduces methodologic issues that are specific to these studies. Methodologic issues are addressed in the context of choosing study design options and evaluating current research including choice of study populations, prevalence issues, selection issues, confounding, misclassification, and etiologic heterogeneity. Prerequisites: EPI 530 and EPI 534 or permission of instructor.

EPI 746 (2) Reproductive Epidemiology

SPRING. This course reviews the epidemiology of human reproductive function and the methodologic issues involved in studying reproduction. Topics include male and female infertility, pregnancy loss, the impact of infectious diseases on reproduction, contraceptive efficacy, unintended pregnancy, and environmental and occupational impacts on reproduction. Prerequisite: EPI 504 or EPI 530.

EPI 747 (2) Advanced Environmental Epidemiology

FALL. Prerequisites: Required: EPI 530 and BIOS 500; BIOS 501 or BIOS 591P; also preferred: EPI 539, EPI 540 or EPI 545; or instructor's permission. Students will gain experience reading, evaluating, and interpreting EPI studies on the health impact of workplace & environmental exposures. Students will understand & interpret the EPI literature. Skills are developed through class lectures, assigned readings, & case studies. Most case studies require data analysis though the focus of the class is on conceptual issues common in environmental EPI rather than on applied statistics. Cross listed with EPI 747.

EPI 760 (4) Causal Inference

FALL/SPRING. This course provides a survey of modern topics in causal inference. Fundamental concepts in causal inference will be covered including: counterfactual random variables, assessing identifiability of causal effects, graphical frameworks, Gcomputation, inverse probability of treatment weighting, methods for efficient, doubly (multiply) robust estimation of causal effects, and causal mediation. Where possible, the course emphasizes the use of modern regression (e.g., machine learning) in causal effect estimation and provides an applied introduction to this area is provided as well.

EPI 790R (1) Doctoral Seminar in Epidemiologic Practice

FALL/SPRING. Presents discussions by invited guests, faculty, and students of special topics and research findings. PhD students only.

EPI 791 (1) Teaching Epidemiology

FALL. This course provides an opportunity for students to learn and apply principles and skills involved in organizing and teaching an introductory level course in epidemiologic methods. The course is designed to be taken concordantly with the student's teaching assistantship experience. Topics include using Blackboard, leading and facilitating discussion of epidemiologic topics and assignments, developing and evaluating laboratory exercises and exams, and diversity in the classroom (both culturally and with respect to learning styles) Discussions of specific labs will cover objectives and key concepts for each. There will also be an opportunity for students to discuss

teaching issues and challenges with their peers and the instructor, and to offer advice and solutions based on their experience. EPI PhD students only.

EPI 797R (12) Directed Study

FALL/SPRING/SUMMER. Directed study with a faculty member where subject matter is not offered in a regularly offered course.

EPI 798R (12) Pre-candidacy Research

FALL/SPRING/SUMMER. Progress towards the degree prior to entering candidacy that may include Research Assistantships and/or dissertation proposal preparation.

EPI 799R (12) Research

FALL/SPRING/SUMMER. Dissertation research and preparation for Epidemiology doctoral students in candidacy status.



Department of Health Policy and Management

<http://www.sph.emory.edu/departments/hpm/index.html>

Joseph Lipscomb, Professor and Interim Chair

The Department of Health Policy and Management (HPM) offers courses of study leading to the Master of Public Health (MPH) and the Master of Science in Public Health (MSPH) degrees through the Rollins School of Public Health (Rollins) and the Doctor of Philosophy (PhD) degree through the Department of Economics at the Laney Graduate School and the Goizueta Business School. The MPH programs of the HPM department focuses on professional public health practice with concentrations in either health care management or health policy. The MSPH in health services research focuses on building analytic skills for the assessment and development of health-related public policy. Additional information on admission processes, course sequencing, and course scheduling can be found on the HPM website.

The HPM department cooperates with other Emory schools in offering several residential dual degree programs. The collaboration with Goizueta Business School leads to the MBA and the MPH with a concentration in health policy. The joint offerings with the Emory School of Medicine lead to MD and MPH degrees for medical students; the MMSc and MPH for physician assistant students; and, the DPT and MPH degrees for physical therapy students with a concentration in health services management. The collaborations with Emory University School of Law, the Nell Hodgson Woodruff School of Nursing, the Candler School of Theology, and the Center for Ethics lead, respectively, to the JD and MPH, the MSN and MPH, the MDiv and MPH, the MTS and MPH, or the MA and MPH with concentrations in either health care management or health policy. Interdisciplinary in philosophy and content, the courses of the Department of Health Policy and Management are designed to provide students with a comprehensive background in the conceptual and analytical knowledge necessary to understand and improve health status and health services delivery. The orientation of the HPM courses aligns academic knowledge with best professional practice. The teaching programs of the department are reinforced by its adjunct faculty members, all of whom are working in the health sector. They provide students with a professional practice perspective in the ever-changing and evolving health care system.

HPM faculty members are interdisciplinary in their academic backgrounds and research portfolios. Faculty hold expertise in various fields, including economics, political science, public policy, healthcare management, epidemiology, and sociology, as well as the clinical health sciences. Major research areas include comparative health systems analysis and health reform initiatives in the United States, Europe, as well as both emerging and developing economies. Individual members are conducting research in clinical economics of cardiovascular disease and cancer, outcomes and effectiveness research, quality of life measures, payment systems, physician reimbursement and physician profiling, mental health policy, women's health policy, and health care labor markets. PhD dissertations and MSPH theses are independent research projects that may build on the research activities of the faculty. MPH students are encouraged to identify research opportunities with individual members of the faculty. The HPM department faculty conducts collaborative research with other colleagues of Emory University as well as with Centers for Disease Control and Prevention, The Carter Center, American Cancer Society, local and state health agencies, non-profit organizations, corporations, and Atlanta-based hospitals and health care institutions.

Department Admission Criteria

Students in the master's programs come from a variety of academic and professional backgrounds. Some are mid-career professionals who have considerable experience as managers, policy makers, or clinicians. Others are more recent graduates from a variety of academic backgrounds who are beginning their professional careers in public health.

Combined with students in the dual-degree programs, the result is a diverse student body that is encouraged to contribute its knowledge and experience to classroom discussions. Applicants are expected to demonstrate both strong academic skills, including analytical, quantitative, and verbal skills, as well as leadership potential in their chosen field. The residential MPH option may be completed on either a full-time or part-time basis. The MSPH may only be completed on a full-time basis. Students are admitted only in the fall semester. Please see the Department of Health Policy and Management website for more information at <https://www.sph.emory.edu/departments/hpm/degree-programs/index.html>.

Which Master's Degree Program Should I Choose?

The three master's degree programs are distinct and it is important to understand which one best fits your needs. The following table details some of the major differences between the three programs.

	MPH in Health Care Management Track	MPH Health Policy Track	MSPH in Health Services Research
Program Focus	Health Care Management	Health Policy	Health Services Research
Credits Required	42	42	48
12-Month Option	Yes	No	No
Elective Credits	3	5	10
Thesis Option?	No	No	Required
Cohort Size	40	40	6-8
Sample Key Skills	Accounting, marketing, human resources	Advocacy, policy analysis, economics, financing	Research design methods, data analytics, quantitative analysis
Sample Career Path	Managing a hospital or nursing home	Government, advocacy, consulting, research	Research firm, consulting, government, doctoral program

MPH Departmental Program Requirements

The MPH in both HPM residential tracks builds on the public health core of epidemiology, biostatistics, environmental health, and the behavioral, social, and health education sciences. Required MPH coursework includes Health Policy and Resource Allocation, Financial Accounting, Health Economics, and Introduction to Health Care Management. During the first semester as a graduate student, MPH students choose either the health policy or health care management option. Courses are sequenced and scheduled with prerequisites. Students not following the recommended course-sequencing pattern may find it necessary to extend their programs beyond their original expectations. Each MPH track concludes with a set of two capstone courses. The HPM residential MPH programs require 42 semester hours for graduation. After one semester of MPH coursework, each student is responsible for completing an applied practice experience or practicum.

HEALTH POLICY AND MANAGEMENT

MPH Required Core Courses

Course	Course Title	Credit Hours
PUBH 500	Introduction to Public Health	0
PUBH 501	Interprofessional Education and Public Health Leadership	0
BIOS 500/BIOS 500L	Statistical Methods with lab	4
BSHES 500	Behavioral and Social Sciences in Public Health	2
EH 500	Perspectives in Environmental Health	2
EPI 504	Fundamentals of Epidemiology	2
or EPI 530	Epidemiologic Methods I (Pre-requisite or concurrent with BIOS 500)	4
GH 500	Critical Issues in Global Health	2

MPH Required HPM Core Courses

Course	Course Title	Credit Hours
HPM 501	Health Policy and Resource Allocation	3
HPM 502	Introduction to Health Care Management	2
HPM 510	Financial and Managerial Accounting	3
HPM 521	Introduction to Health Economics	3
HPM 595	Applied Practice Experience	0

HPM 522	Economic Evaluation of Health Care Programs	4
HPM 523	Public Financing in the Health Care System	3
HPM 561	Public Health Law	2
or HPM 557	Health Care Administration Law	2
HPM 576	Policy Analysis	3
	Electives	5

Health Care Management Options Requirements

HPM 511	Financial Management for Health Care Organizations	3
HPM 540	Human Resource Management in Health Care	2
HPM 545	Health Care Marketing	2
HPM 557	Health Care Administration Law	2
or HPM 561	Public Health Law	2
HPM 560	Strategic Management	3
	Electives	3

Integrative Learning Experience

As the culmination of their educational experience, students work with a faculty adviser to design a culminating Integrative Learning Experience that demonstrates the student's mastery of a public health discipline that is relevant to his or her short and long-term career objectives. Students in the Health Policy and Management MPH degree programs complete a capstone course.

Course	Course Title	Credit Hours
<i>Health Policy Option</i>		
HPM 575	Capstone: Advanced Health Policy Analysis	4

Health Care Management Track

HPM 550	Capstone: Operations Management	4
----------------	---------------------------------	---

MSPH Departmental Program Requirements

The MSPH degree in Health Services Research requires a series of research theory and methodology courses as well as the completion of a master's thesis. The MSPH is highly recommended for those considering doctoral work or a career in applied health services research. In addition to the required courses, all HPM students have the opportunity to expand their education through a variety of electives. The HPM MSPH programs require 48 semester hours for graduation. After one semester of MSPH coursework, each student is responsible for completing an applied practice experience or practicum.

MSPH Required Core Courses

Course Number	Course Title	Credit Hours
PUBH 500	Introduction to Public Health	0
PUBH 501	Interprofessional Education and Public Health Leadership	0
BSHES 500	Behavioral and Social Sciences in Public Health	2
EH 500	Perspectives in Environmental Health	2
EPI 504	Fundamentals of Epidemiology	2
or EPI 530	Epidemiologic Methods I (Pre-requisite or concurrent with BIOS 500)	4
GH 500	Critical Issues in Global Health	2

MSPH in Health Services Research Required HPM Courses

HPM 501	Health Policy and Resource Allocation	3
HPM 521	Introduction to Health Economics	3
HPM 522	Economic Evaluation of Health Care Programs	4
HPM 523	Public Financing in the Health Care System	3
HPM 581	Research Seminar I (Process & Writing)	2
HPM 583	Research Seminar III (Thesis Development)	2
HPM 585	Quantitative Methods I (Database Management—SAS)	3
HPM 586	Quantitative Methods II (Statistical Analysis—Stata)	3
HPM 587	Advanced Research Methods	1
HPM 730	Theory-Based Research Design Seminar II (Design & Writing)	4
HPM 595	Applied Practice Experience	0
	Electives	10

Integrative Learning Experience

As the culmination of their educational experience, students work with a faculty adviser to design a culminating Integrative Learning Experience that demonstrates the student's mastery of a public health discipline that is relevant to his or her short and long-term career objectives. Students in the Health Policy and Management MSPH degree program complete a thesis.

Course Number	Course Title	Credit Hour
HPM 599R	Thesis	VC

PhD Department Admission and Program Requirements

The Department of Health Policy and Management offers a PhD program in health services research and health policy through the Laney Graduate School. An online application is available at www.graduateschool.emory.edu. Students specialize in economics and organizational theory and take core coursework in the departments of economics and political science along with those courses in the department. The Department of Health Policy and Management offers doctoral seminars in organizational theory, health economics, and empirical methods.

HEALTH POLICY AND MANAGEMENT

The admission process focuses on qualifications indicating that the candidate is likely to excel as a scholar in an academic or applied research organization. Demonstration of quantitative aptitude, as indicated by previous coursework or GRE scores, is particularly important.

International students whose native language is not English must attain a minimum score of 560 or more on the paper Test of English as a Foreign Language (TOEFL) or 200 or higher score on the computer-based TOEFL. Please see the Department of Health Policy and Management website at <https://www.sph.emory.edu/departments/hpm/degree-programs/phd/index.html> for specific admissions deadlines, a full description of the doctoral degree courses, and dissertation requirements.

Faculty

E. Kathleen Adams, Professor. BS, Florida State University, 1970; MS, 1972; PhD, University of Colorado, Boulder, 1979. Maternal and child health policy, public financing of health care, Medicaid and low-income populations, access and provider supply.

Edmund R. Becker, Professor. BS Westminster College, 1971; MA, Ohio University, 1973; PhD, Vanderbilt University, 1981. Health care organization and financing, health politics and policy, organizational theory and behavior, physician payment and productivity, unions and labor relations.

Sarah C. Blake, Research Associate Professor and Director of Graduate Studies. BA, University of South Carolina, 1992; MA, The George Washington University, 1996; PhD., The Georgia Institute of Technology, Georgia State University, 2013. Health policy, implementation science, program evaluation, women's health, maternal and child health, mixed research methods interprofessional education and training.

Puneet Kaur Chehal, Assistant Professor. BA, University of California, Davis, 2008; MA, Duke University, 2015; PhD, Duke University, 2017. Public health insurance programs, health economics, and low-income populations.

Steven D. Culler, Associate Professor. BA, College of Wooster, 1977; MA, 1979; PhD, University of Illinois, 1981. Health care financial management, cost effectiveness analysis, outcomes research, and health economics.

Janet R. Cummings, Professor. BA, University of North Carolina, Chapel Hill, 1999; PhD, University of California at Los Angeles, 2009. Mental health services, health disparities, geographic variations in health care access and utilization, and children's health.

Maria Dieci, Assistant Professor. BA, Harvard University, 2013; MA, University of California - Berkeley, 2019; PhD, University of California - Berkeley, 2022. Health economics, global health, maternal and child health, health decision-making and financing in resource-constrained settings.

Benjamin G. Druss, Rosalynn Carter Chair in Mental Health, Professor. BS, Swarthmore College, 1985; MD, New York University, 1989; MPH, Yale University, 1995. Mental health services, mental health policy research.

Laura Gaydos, Teaching Associate Professor. BA, Brown University, 1998; PhD, University of North Carolina, Chapel Hill, 2004. Adolescent/child health, health policy, women's health, reproductive health, maternal and child health, public health pedagogy.

Ilana Graetz, Associate Professor. BA, University of California - Berkeley, 2002; PhD, University of California - Berkeley, 2012. Health policy, health information technology, mobile health, patient-reported outcomes, and health disparities.

David H. Howard, Professor and Director of Graduate Studies. BA, Vassar College, 1994; PhD, Harvard University, 2000. Health economics, medical decision making.

Peter Joski, Research Associate Professor. BBA, University of Wisconsin - Madison, 1991; MSPH, Tulane University, 1997. Data management and analysis.

Joseph Lipscomb, Professor, Interim Chair, and Georgia Cancer Coalition Distinguished Cancer Scholar; BA, Vanderbilt University, 1970, PhD, University of North Carolina at Chapel Hill, 1975. Outcomes research with a focus on cancer, quality of care assessment, cost-effectiveness analysis, health workforce planning, decision modeling.

Victoria L. Phillips, Associate Professor. BA, Tulane University, 1986; DPhil, Oxford University, 1991. Health economics, economic evaluation, decision analysis, comparative effectiveness, the financing and delivery of care, particularly for people with chronic illness.

Kenneth E. Thorpe, Robert W. Woodruff Professor, Department of Health Policy and Management;

BA, University of Michigan, 1978; MA, Duke University, 1980; PhD, Rand Graduate Institute, 1985. Director, Emory Center on Health Outcomes and Quality. United States health policy and finance.

Adam S. Wilk, Associate Professor. AB, Dartmouth College, 2006; PhD, University of Michigan, 2015. Health services research and health economics, access to transplant and home dialysis among adults with kidney failure, Medicaid policy, financing for school-based mental health services, provider team coordination and decision-making.

Courtney R. Yarbrough, Assistant Professor. BA, University of Georgia, 2004; MPA, University of Georgia, 2012; PhD, University of Georgia, 2017. Pharmaceutical markets and policy, substance abuse policy, community social capital and health outcomes.

Emeritus Faculty

Walter M. Burnett, Research Professor. BA, Wesleyan University, 1959. MA University of Iowa, 1964; PhD University of Iowa, 1965.

Fredric D. Kennedy, Emeritus Professor. BE, Yale University, 1956; BS, 1958; MBA, University of California, Los Angeles, 1961; PhD, University of North Carolina at Chapel Hill, 1974.

Stephen Margolis, Emeritus Professor. BA, Yeshiva University 1963; PhD, Cornell University, 1970.

Jane C. Nelson, Emeritus Professor; BA, Barry College, 1965; MEd, University of Washington, 1969; PhD, University of Florida, 1977; MPH, Emory University, 1992.

Richard B. Saltman, Professor. BA, Dartmouth College, 1969; MA, 1971; PhD, Stanford University, 1980. Comparative health policy, organization theory, United States health policy, health systems reform, accountability and governance.

Jointly Appointed Faculty

Amy Y. Chen, Assistant Professor and Director; BA, University of Texas at Austin, 1988; MD, Johns Hopkins University, 1992; MPH, University of Texas School of Public Health, 1999.

Health services research. Emory University School of Medicine; Atlanta Veterans Affairs Hospital.

Jeannie P. Cimiotti, Associate Professor, Nell Hodgson Woodruff School of Nursing, Emory University. BSN, University of the State of New York, 1997; MS, Rutgers University, 2001; PhD, Columbia University, 2004.

Michal Horný, Assistant Professor, Department of Pediatrics, Emory School of Medicine. Bc. Charles University in Prague (Financial Mathematics), 2008. Bc. Charles University in Prague (Economic Theories), 2010. MSc. VU University Amsterdam (Stochastics and Financial Mathematics), 2012.

PhD. Boston University School of Public Health (Health Services Research), 2017. Health insurance; Affordability of care; Cost-sharing; Health care price transparency; Health policy

Xu Ji, Assistant Professor, Emory School of Medicine. BA, Nanjing Medical University, China, 2009; MSPH, Emory University, 2013; PhD, Emory University, 2017. Pediatric cancer care, cancer survivorship, child health services research, health policy, and health economics.

Michael M.E. Johns, Chancellor. BS, Wayne State University, 1964; MD, University of Michigan Medical School, 1968. Executive Vice President for Health Affairs.

Jeffrey P. Koplan, Professor and Director, Global Health Initiative. BA, Yale University, 1966; MD, New York University, 1970; MPH, Harvard University, 1978. Director, Global Health Initiative.

Jonathan Lewin, Professor. BS, Brown University, 1981. MD, Yale University, 1985. Executive Vice President for Health Affairs, Emory University. Executive Director, Woodruff Health Sciences Center. President, CEO & Chairman of the Board, Emory Healthcare.

Sara Markowitz, Professor and Director of Studies. Economics and English, BA, cum laude, Rutgers University, 1993. Economics, MA, Hunter College, City University of New York, 1998. Economics, PhD, Graduate Center, City University of New York, 1998. Professor of Economics, Emory University.

Nader N. Massarweh, Associate Professor. BS, Boston College, 2000; MD, Tulane University School of Medicine, 2005; MPH, University of Washington, 2010.

Deborah A. McFarland, Associate Professor. BA, Ohio Wesleyan University, 1968; MPH, University of North Carolina, Chapel Hill, 1973; MSc, London School of Economics, 1984; PhD, University of Tennessee, 1987. Health policy, health financing in UNITED STATES and developing countries, comparative health policy, health systems reform, equity and the poor. Jointly appointed with the Hubert Department of Global Health.

HEALTH POLICY AND MANAGEMENT

Ani B. Satz, Professor of Law. BA, University of Tulsa, 1994; PhD Monash University (completed at Princeton University), 2001; JD, University of Michigan, 2001. Health law, law and philosophy, torts, and disability law. School of Law.

Adjunct Faculty

Greg Anderson, Adjunct Professor. BS, University of Tennessee, 1995; MS, University of Tennessee, 1998; MPH, Emory University, 2004. Senior Scientist, Office of Infectious Diseases, U.S. Centers for Disease Control and Prevention.

Anne F. Arwood, Adjunct Associate Professor. BA, Duke University, 2005; MPH, Emory University, 2006; MBA, Emory University, 2020. Private consulting practice.

Sarah Benator, Adjunct Professor. BA, University of Michigan 2006; JD, Emory University School of Law, 2009; MPH, Emory University, 2010. The Sanders Law Firm, P.C.

Curtis S. Florence, Adjunct Professor. BA, University of Alabama, 1989; PhD, University of North Carolina, 1997; Health and labor economics, econometrics.

Robert E. Gross, Adjunct Associate Professor. BA, University of Maryland, 1971; MBA, Loyola College, 1977. Databases in health care, health care revenue cycle. Price Waterhouse Coopers.

Leigh S. Hamby, Adjunct Professor. BS, Emory University, 1984; MD, Emory University, 1988; MSHA, University of Alabama, 2000. Vice President, Piedmont Hospital.

Redge Hanna, Adjunct Associate Professor. Georgia College, NHA 2000, Corporate Director Service Performance Emory Healthcare.

Henry Heiman, Adjunct Professor. BA, Washington University, 1979. MD, University of Cincinnati, 1984. MPH, Emory University, 2009.

Jessica Hike, Adjunct Associate Professor. BBA, Stetson University, 2008; MPH, Emory University, 2010. Children's Healthcare of Atlanta.

Kara Jacobson, Adjunct Associate. BA, Emory University, 1991; MPH, Emory University, 1993. Health outcomes, health promotion and prevention programming, health literacy, arthritis.

Manoj Jain, Adjunct Professor. BE, Boston University 1985; MD; MPH, Medical Directory QSource, Tennessee's Quality Improvement Organization since 1999.

Olivia S. Jung, Adjunct Assistant Professor. BS & BA, University of Pennsylvania, 2012; MA, Harvard University, 2015; PhD, Harvard University, 2021. Health care management, innovation, implementation, organizational behavior.

Ramzi Kanso, Adjunct Associate Professor. BS Accounting, the University Alabama, MBA, CPA, CFF, CISSP. Vice President, Global Enterprise Risk Management (ERM) and Chief Audit Executive at fortune Multinational Healthcare Company.

Michael Killeen, Adjunct Associate Professor. BA, Journalism, University of Georgia, 2002. MBA, Georgia College, 2015. Vice President, Lenz Marketing.

Alan F. Kramer, Adjunct Associate Professor; BA, Baylor University, 2008; MPH, Emory University, 2009. Associate VP, Health System Emerging Strategies & Market Development, UT Southwestern Medical Center.

Robert K. Merritt II, Adjunct Professor; BA, Washington and Lee University, 1987. MA, Emory University, 1991. U.S. Centers for Disease Control and Prevention.

Michael O'Toole, Adjunct Associate Professor. BS, Georgia Institute of Technology, 2000; MS, 2006. Piedmont Healthcare.

William Pearson, Adjunct Professor. MHA, Medical University of South Carolina, 1999. PhD, University of South Carolina, 2004. U.S. Centers for Disease Control and Prevention.

Christopher E. Press, Adjunct Associate Professor. BBA, Ohio University, 1976; MBA, University of Cincinnati, 1980. Morgan Health Care Consulting.

Christopher Profeta, Adjunct Instructor.

Ali R. Rahimi, Adjunct Professor. BS, Florida State University, 1996; MPH, Emory University, 2000; MD, Medical College of Georgia, 2004. Division of Cardiovascular Medicine and Department of Quality. Kaiser Permanente of Georgia and The Southeast Permanente Medical Group.

Natasha Rishi-Bora, Adjunct Instructor. MPH,

Lawrence Sanders Jr., Adjunct Professor. BA, Clemson University, 1977; MD, Vanderbilt University, 1981; MBA, University of Pennsylvania, 1988. Grady Health System.

Richard Sanders, Adjunct Professor. BA, Duke University, 1992, JD, Emory University, 1996.

Private law practice.

Frederic E. Shaw, Adjunct Professor. BA, University of New Hampshire, 1973; MD, University of Vermont College of Medicine, 1977; JD, Columbia Law School, 1992. Consultant, U.S. Centers for Disease Control and Prevention.

Brooke K. Tripp, Adjunct Associate Professor. BA, University of North Carolina at Chapel Hill, 1999; MPA, University of Georgia, 2001. Center for Surveillance, Epidemiology, and Laboratory Services, U.S. Centers for Disease Control and Prevention.

Katherine Virgo, Adjunct Professor, BSBA Southern Illinois University, 1981; MBA Southern Illinois University, 1983; PhD. Saint Louis University, 1991. EVP, International Atlantic Economic Society.

Jon W. Wollenzien Jr., Adjunct Professor. BBA, Marshall University, 1985; MHA Des Moines University, 1990; DBA, Nova Southeastern University, 1999. Chief Executive Officer, Palmetto Health Council Inc.

Elizabeth Woodcock, Adjunct Professor. BA, Duke University, 1992; MBA, The Wharton School of the University of Pennsylvania, 1999; DrPH, Bloomberg School of Public Health, Johns Hopkins University, 2021. Founder & Executive Director, Patient Access Collaborative.

K. Robin Yabroff, Adjunct Professor. BS and BA, Indiana University, 1987; MBA Finance, University of Rochester, 1991; PhD Epidemiology, Johns Hopkins Bloomberg School of Public Health, 2001. Scientific Vice President, Health Services Research, American Cancer Society.

Health Policy and Management Course Descriptions

HPM 500 (2) Intro To US Health Care System

FALL/SPRING. Required for all MPH students. Introduces students to the US health care system, both the public and private sector. Examines the structure of the health system, current topics in health care reform, the policy process, and advocacy for public health.

HPM 501 (3) Pub Health & Health Resource Alloc

FALL. Required for HPM students. Examines the formulation and implementation of health policy in the US health care system. Emphasizes the application of analytical contributions from health economics, health services research, and other policy-related disciplines to current issues in health care delivery, organization, and financing.

HPM 502 (2) Intro To Health Care Management

FALL. Required for HPM students. Introduces the theory and principles of management. Topic areas include motivation, leadership, organizational change, human resources administration, organizational theory, strategic planning, and management control systems. Teaches practical applications of management theory through case studies and group discussions.

HPM 510 (3) Finance & Manager Acct For Heal Car

FALL. Introduces the basic accounting concepts, analytical techniques, decision-making tools, and vocabulary needed for effective management of health care organizations. The first part of the course is devoted to the fundamentals of financial accounting, including preparing and interpreting key financial statements. The second part covers the generation, use, and interpretation of accounting information for making managerial decisions.

HPM 511 (3) Fin Manage/Health Care Organization

SPRING. Prerequisite: HPM 510. Introduces the fundamental theories and relationships guiding financial decision making as they apply to the management of health care organizations. Focuses on the key managerial issues related to maintaining and expanding a health care organization's assets. Selected topics in this course include short-term assets management, discounting cash flow analysis, capital acquisition decisions, and capital budgeting decisions.

HPM 521 (3) Intro To Health Economics

FALL. Introduces basic supply and demand concepts applied to health care markets, using microeconomic theory. Topics of discussion include what does or does not make health care

HEALTH POLICY AND MANAGEMENT

distinctive as an economic good, the market for health care in theory and practice, and economic proposals to overcome existing market failure.

HPM 522 (4) Econ Eval of Health Care Programs

SPRING. Prerequisites: HPM 500 or HPM 501, and HPM 521. Examines the theory, methods, and applications of economic evaluations (cost-effectiveness, cost-benefit, cost-utility) of health care programs, using examples from both developing and developed countries. Applications range from economic evaluations of medical procedures to economic evaluations of intervention programs in developing countries.

HPM 523 (3) Public Financing/Health Care System

SPRING. Prerequisites: HPM 500 or HPM 501 and HPM 521. Focuses on the principles of public finance to enable students to evaluate tax subsidies and revenue structure used to finance health care with comparisons to alternative structures. Students apply the concepts of equity and efficiency in financing health care at the national and state levels.

HPM 525 (3) Health Services Data Analytics in the Workplace

SPRING. The purpose of this course is to provide you with practical training on how to work with data and perform data analytics using Excel.

HPM 533 (3) Qualitative Methods for Health Services Research

SPRING. This course introduces students to the theoretical and practical applications of qualitative research. Emphasis is placed on qualitative methods most commonly associated with health services research, including informant interviews, document reviews, and focus groups. Students will gain practical experience with qualitative methodology as well as learn the basic approaches to mixing qualitative and quantitative methods. Students will complete a research proposal by the end of the semester that reflects a mixed method study.

HPM 534 (2) Grant Writing for Public Health

SPRING. Basic introduction to grant writing for students with little or no grant writing experience. Topics covered will include determining which grants you should apply for, the basic components of a grant proposal, data sources and resources, and the funder's perspective. Each student will plan and write sections of a short foundation grant proposal.

HPM 540 (2) Human Resource Mgmt In Health Care

SPRING. Prerequisites: HPM 501 and HPM 502 or permission of the instructor. Provides an overview of interpersonal dynamics, conflict resolution, and human resource management in health care. Students undertake real world applied human resource management practices through dynamic group projects.

HPM 545 (2) Health Care Marketing

SPRING. Prerequisites: HPM 501 and HPM 510 or permission of the instructor. Presents the basic concepts of marketing in the context of the delivery of health care services in the United States. Students undertake an applied marketing project on a group basis.

HPM 550 (4) Capstone-Operations Management

SPRING. Prerequisites: HPM 501, HPM 502, HPM 510, HPM 511, HPM 521, HPM 540, HPM 545, HPM 560, HPM 561 or 557. This course integrates various analytical approaches developed in prerequisite courses into practical decision making by analyzing the problems of day-to-day operations within the health care organizations and the specific tools used to address those problems. Operations involve the efficient management of an organizations people, material, methods, equipment, and environment. This course will develop the student's ability to make decisions and to apply problem-solving skills to operate a modern-day health care organization.

HPM 552 (3) Health Information Technology: Policy, Evidence, and Management Strategies

SPRING. Pre-requisites: HPM 500 or 501, or with permission of instructor. The course will cover

health information technology (HIT) topics relevant to both the HPM management and policy tracks. Students will be asked to evaluate research, business proposals, and policies from the perspective of multiple stakeholders, including large healthcare systems, hospitals, physicians, policy makers, payers (CMS and insurance providers), HIT industry executives, researchers, and patient advocates. Topics covered will include electronic health records, health information exchanges, computerized decision support systems, machine learning, quality improvement, management strategies, meaningful use, telehealth payment structures, implementation, usability, workflow, patient portals, and mHealth.

HPM 553 (3) Pharmaceutical Economics and Policy

FALL. Prerequisite: HPM 521 or permission of the instructor. Examines the role of pharmaceuticals in the delivery of health care and the economic principles and public policies that impact pharmaceutical markets. Includes topics related to drug pricing, competition, regulation, research and development, access to drugs, and substance abuse. Analyzes the strategies of various actors in pharmaceutical markets: branded and generic drug manufacturers, insurers, pharmacy benefit managers, physicians, and patients.

HPM 554 (3) Quality Improvement Meth/Hlth Care

FALL/SPRING. Prerequisite: HPM 500 or HPM 501 or permission of the instructor. Presents a theoretical framework to facilitate the continuous improvement of quality in health care organizations. Introduces multiple approaches, including outcome measurement and case management. Emphasizes team development, analytical statistics, and process knowledge.

HPM 555 (2) Health Care Management in the Outpatient Setting

FALL. This course introduces students to management in the outpatient setting. Health care is transitioning into the lowest cost environment to provide care for patients. This shift from inpatient to outpatient care has created significant needs for strong managers who understand the complexity of providing care in this setting. By using a variety of case studies and practical experiences, students will be able to apply the concepts learned in a real-world setting.

HPM 556 (3) Physician Performances

FALL. Prerequisite: HPM 500 or HPM 501 or permission of the instructor. Provides a systematic review of the major determinants of the performance of physicians, who by one estimate directly or indirectly influence 70 to 90 percent of all medical activities. Covers practice variation; medical appropriateness; patient and physician characteristics; uncertainty and medical decision-making; organizational characteristics and financial incentives; error and negligence; measuring MD performance via physician profiling, report cards, managed care; changing practice; utilization management; standards and professional society guidelines.

HPM 557 (2) Healthcare Administration Law

SPRING. Introduces students to legal aspects of contemporary issues associated with the administration of health services organizations. Through readings, lectures and group interactions, the course will analyze the legal relationships between individual providers, payors, and regulatory entities and their impact on administration of these organizations.

HPM 559 (3) Negotiation and Conflict Management in the Healthcare Setting

SPRING. The purpose of this course is to understand the basic theory and processes of negotiation so that the student can negotiate successfully in a variety of organizational settings. Students will develop these skills by preparing for and simulating a variety of case study negotiations.

HPM 560 (3) Strategic Management

FALL. Prerequisites: HPM 501, HPM 502, HPM 510, HPM 511, HPM 521, HPM 540, and HPM 545 and HPM 557 or 561. This course is intended as the integrative Capstone course for management students completing their degree in Health Policy and Management. Examines the formulation and implementation of business strategies in health care organizations, models of strategic management, and the

HEALTH POLICY AND MANAGEMENT

role of stakeholders in the strategic management process. Reviews specific analytical tools used in strategy formulation, choice, and implementation, with an emphasis on real- world health care applications.

HPM 561 (2) Fundamentals Of Public Health Law

SPRING. Introduces students to the sources of American legal authority for public health actions, such as the United States Constitution, state and federal statutes and regulations, and the common law, as well as the division of legal authority between the federal government and the states and legal protections for individual rights. Addresses topics such as the philosophical underpinnings of American law, the structure and function of the Constitution, the regulation of health risks, public health governance, and the role of law in policy making. Through several case studies, explores the law of vaccination, communicable disease control, injury prevention, and other public health activities, while giving students an experience in legal thinking.

HPM 562 (3) Health Insurance Concepts

SPRING. Introduces the basic structure, pricing, and management of financial risks by private health insurance plans, and the estimation of future expenditures for public health insurance programs. Examines the operation of health insurance plans from both the buyer and the insurer perspectives; how health plans employ actuarial estimates to project the cost of their benefit packages and determine the premiums they charge; and methodology as it pertains to the projection of costs in public health insurance programs.

HPM 564 (3) Health Outcomes

FALL. Prerequisites: HPM 501 and BIOS 500 (or the equivalent), or permission of the instructor. Focuses on the construction, analysis, and real-world application of health outcome measures, including especially patient-reported outcomes (PROs), to a broad range of current health policy topics. These include evaluation of health system performance at the macro (national/international) level, new strategies for value-based purchasing of medical care based on measurable improvements in health outcomes, evaluation of health care provider performance, research comparing the effectiveness of competing interventions, quality-of-care appraisal, and patient-provider decision-making in the clinic and at the bedside. Emphasis is on the basic measurement tools and analytical approaches being used now by outcomes researchers in academia, federal and state government policy shops, the pharmaceutical and medical device industry, and also data management and research consulting firms that advise both government and industry..

HPM 565 (2) Health Care For The Indigent

FALL. Prerequisite: HPM 500 or HPM 501 or permission of instructor. Explores the problems of uninsured Americans in obtaining health care. Reviews the scope of the current problem and the role of existing programs, as well as future directions for health policy. Addresses practical issues in program administration, with an emphasis on Medicaid and other indigent care programs.

HPM 570 (2) Comparative Health Systems

SPRING. Prerequisite: HPM 500 or HPM 501 or permission of instructor. Explores and analyzes the current reform process in European and North American health systems. Emphasizes normative policy as well as financial objectives, and the conflicting interests of key actors. Concludes with a consideration of implications for health system reform in the United States.

HPM 572 (2) Contemporary Health Policy Issues

FALL. Pre-requisites: HPM 500 or 501, or with permission of instructor. The course will cover health information technology (HIT) topics relevant to both the HPM management and policy tracks. Students will be asked to evaluate research, business proposals, and policies from the perspective of multiple stakeholders, including large healthcare systems, hospitals, physicians, policy makers, payers (CMS and insurance providers), HIT industry executives, researchers, and patient advocates. Topics covered will include electronic health records, health information exchanges, computerized decision support systems, machine learning, quality improvement, management strategies, meaningful use, telehealth payment structures, implementation, usability, workflow, patient portals, and mHealth.

HPM 573 (3) Access to Healthcare: Measures, Determinants, and Current Issues

IRR. Topics in the course include the measurement of access and examination indicators of access over time and across states and constituent groups. The determinants of access including age, race, ethnicity, income, insurance and health risk are presented. Current topics in access are integrated into the course. These include racial disparities, immigrant status, geographic variation, the uninsured and access under Medicaid.

HPM 575 (4) Capstone-Advanced Topics in Policy Analysis

SPRING. Prerequisites: HPM 501, HPM 510, HPM 521, HPM 522, HPM 523, HPM 561 or 557 and HPM 576. This class will teach students how to conduct public health policy analyses that examine options to address emerging issues, conduct analysis of the options and communicate recommendations.

HPM 576 (3) Health Policy Analysis

FALL. Description Prerequisites: HPM 501, HPM 510, HPM 521, HPM 522, HPM 523, HPM 561 or 557. Students will learn how to use the tools of economics, statistics, and decision analysis to predict the impact of yet-to-be enacted state and federal policy changes. Topics covered include market failures, cost-benefit analysis, interpretation of results from observational studies, discounting, inflation adjustment, measurement of willingness-to-pay, and writing for non-technical audiences. During the course of the semester, students will develop a policy analysis on a topic of their choosing. Some examples of topics covered in students' analyses include: caps on non-economic damages in malpractice suits, mandated coverage of contraceptives by insurance plans, abortion bans, and increases in tobacco excise taxes.

HPM 577 (2) Mental Health/Medical Interface in US

FALL. This course provides an overview of mental health services and policy by exploring the complex and dynamic relationship between general health, mental health, and public health in the United States. Students taking the class will learn how to apply a systems perspective to understanding both mental health and general health care delivery in the United States.

HPM 581 (2) Research Seminar I

FALL. The seminar introduces the health services research process, research design issues, ethical problems faced by researchers and the development of the MSPH thesis. Enrollment is limited to students admitted to the MSPH in health policy and health services research.

HPM 583 (2) Research Seminar III - Analysis

FALL. Prerequisite: HPM 581, 730. The seminar provides HPM MSPH students with the guidance necessary for developing a quantitatively-based thesis using large secondary data sets. It begins with development of a researchable health policy question and the selection of appropriate databases and operational definitions. Enrollment is limited to students admitted to the MSPH in health policy research.

HPM 585 (3) Quantitative Methods Using SAS I

FALL. The course is an introduction to SAS software with a focus on organizing and merging large databases for purposes applying statistical analysis. The course complements the introduction to SAS in the BIOS 500 lab. Enrollment is limited to students in the HPM MSPH program.

HPM 586 (3) Quantitative Methods II (Stata)

SPRING. Prerequisite: HPM 585 and BIOS 500. This course introduces student the STATA software with a focus on using the software for statistical analysis for data which has been organized using the SAS software. The course builds on the concepts intro in BIOS 500 and concludes with regression analysis. Enrollment is limited to students admitted to the HPM MSPH program or permission of the instructor is required.

HEALTH POLICY AND MANAGEMENT

HPM 587 (1) Advanced Research Methods

FALL. Prerequisite: HPM 730, 586. The course provides the opportunity for students to explore in depth the major research methods used in health policy research. The emphasis is on employing methods which are consistent with the limitations of study data and study assumptions. Enrollment is limited to students admitted to the MSPH in health policy research or the HPM doctoral program.

HPM 592 (2) Case Studies in Public Mental Health

SPRING. The purpose of this seminar is to a) enhance students' skills in critical analysis and evaluation of public mental health research; b) advance students' foundational knowledge of current mental health problems and potential solutions using a multi-disciplinary approach; c) improve students' presentation and group facilitation skills; and d) provide a forum for interaction between students, faculty and professionals with interest and expertise in public mental health. This course is the core course for the Certificate in Mental Health. Offered each spring, any current first year student enrolled in the MPH or MSPH program at RSPH that plans to pursue the Certificate in Mental Health must enroll in BSHE 592/HPM 592. Participating certificate students will be identified based on their enrollment in this course.

HPM 595 (0) Applied Practice Experience

FALL/SPRING/SUMMER. An Applied Practice Experience (APE) is a unique opportunity that enables students to apply practical skills and knowledge learned through coursework to a professional public health setting that complements the student's interests and career goals. The APE must be supervised by a Field Supervisor and requires approval from an APE Advisor designated by the student's academic department at RSPH.

HPM 596 (3) Maternal Child Health

SPRING. This is the foundational course for the Maternal and Child Health Certificate. It covers historical and theoretical underpinnings of maternal and child health problems and programs aimed to reduce morbidity, mortality, and health disparities. Skills in program planning and evaluation are taught through multidisciplinary teams working with academic and field-based faculty in local, state, federal, and nongovernmental agencies. Maternal and child health is defined as a field of public health that addresses underlying forces for these problems, the historical framework for ameliorating those problems, and current programs and policies that have evolved from that historical context. Maternal and child health programs are unique to reproduction and life course development; more common in women, infants, children, or adolescents; more serious in women, infants, children, or adolescents; or have manifestations, risk factors, or interventions that are different in women or during life course development.

HPM 597R (12) Directed Study

FALL/SPRING/SUMMER.

HPM 598R (4) Special Study Project

FALL/SPRING/SUMMER. Presentation of a paper that defines a problem in public health, reviews the literature on this subject, details the methodologies for data collection and analysis, describes findings and conclusions, and discusses implications for public health.

HPM 599R (12) Thesis

FALL/SPRING/SUMMER. Preparation of a monograph based on original research applicable to public health. Should be publishable or have potential public health impact.

HPM 720R (2) Doctoral Seminar in Health Policy

FALL/SPRING. The purpose of this year-long seminar is to acquaint students with the major areas of health policy research, active areas of research in health policy and economics, and faculty from the Department of Health Policy and Management and elsewhere in the University who conduct health policy research. The course will address a different topic every week, and the instructor for that week will provide an overview of the topic, discuss the research methods that are used to study the topic, highlight the seminal works in the area, and lead a discussion of the readings.

HPM 730 (4) Theory-Based Research Design

FALL/SPRING. This course guides students through the process of writing a health services research proposal that is grounded in theory. The course work emphasizes the development of a conceptual framework tailored to a specific research topic by drawing on existing theory, conceptual frameworks, and scientific literature. Other course topics include conducting literature searches and critically reviewing relevant literature; defining and measuring theoretical constructs; developing testable hypotheses; identifying potential omitted variable bias; and executing an effective research presentation.

HPM 740 (4) Doctoral Seminar Health Economics

FALL. This reading course is designed to acquaint students with advanced mathematical theoretical economics. Students will learn theoretical models of health behavior, estimate health production functions, learn the economics of insurance and adverse selection. They will develop tools to evaluate the advantages/shortcomings of health care markets (hospitals, insurance, pharmaceutical).

HPM 750 (2) How Health Policymakers Think About Making Policy: Insights from Pol. Science & Organ. Behavior

The course will focus on key concepts from political science and organizational behavior that influence real world health policy making.

HPM 760 (2) Teaching Health Policy and Health Economics

SPRING. This class is designed to acquaint students with the major tools of health services research. The course will also highlight existing and emerging issues in health services research, policy and management. Discussions of options for addressing the issues, and a review of the empirical literature evaluating their impact are examined.

HPM 770 (3) Organization Science in Health Care

FALL/SPRING/SUMMER. This seminar explores how organization science, broadly defined as research on topics related to management, organizational behavior, organizational theory, informs health services research and practice.

HPM 785 (4) Special Topics: HSRHP

The course will focus on key concepts and factors that influence health policy making in the current era.

HPM 797R (9) Directed Study

FALL/SPRING/SUMMER. The purpose of this class is to provide students with the opportunity to acquaint themselves with current and ongoing research in the Department of Health Policy and Management. Students will be assigned to work directly with one faculty member on currently funded research based on research interests. Assignments must be approved by the Graduate Program Director.

HPM 798R (9) Pre-Candidacy Research

This course is for PhD students who have completed their course work and have passed their comprehensive exams. The course will entail research intended to lead to a dissertation proposal, with specific interim deliverables set by the supervising faculty.

HPM 799R (9) Dissertation Research

FALL/SPRING/SUMMER. This course is for PhD students who have successfully proposed their dissertation. This course involves research to complete the dissertation with specific deliverables set by the dissertation chair.

GLOBAL HEALTH

Hubert Department of Global Health

<http://www.sph.emory.edu/departments/gh/index.html>

Usha Ramakrishnan, Professor and Chair

The Hubert Department of Global Health (HDGH) seeks to understand and reduce inequities in health and well-being, both locally and globally. The MPH in Global Health degree provides students with training to apply global health approaches to domestic and international challenges and opportunities. The Hubert Department of Global Health offers a course of study leading to the Master of Public Health (MPH) degree. This program is offered in both a traditional 24-month format and an accelerated, 12-month format. For the traditional 24-month format, students have the option to select one of four areas of concentration: infectious diseases, community health development, public health nutrition, or sexual and reproductive health and population studies. For the accelerated, 12-month format, students will follow the accelerated concentration curriculum.

Our students, staff, and faculty work to improve health and health delivery systems in Atlanta and around the world. Our faculty have a long history of collaborating with local, national, and international organizations that span the globe, and these affiliations open opportunities for global health students. The department is the host of several important fellowship programs that bring mid-career professionals from developing countries to our program. We currently host Humphrey, Foege, and Fulbright Fellows from around the world. Among the Rollins School of Public Health's 202 full-time faculty, 52 hold primary appointments in the Hubert Department of Global Health. Our primary faculty are complemented by 25 jointly appointed faculty (with other departments at Rollins, Emory School of Medicine, Laney Graduate School, and other schools in the University) and 100+ adjunct faculty (Centers for Disease Control and Prevention (CDC), World Health Organization, CARE, and others). Our faculty have been recognized with numerous national and international teaching, research, and service awards.

A major strength of the Rollins School of Public Health is the opportunity for students to participate in fieldwork as a part of their program. These field experiences include a wide range of program, research, and service opportunities. Opportunities are available both with local agencies such as the CDC, the American Cancer Society, CARE, and The Carter Center as well as an extensive network of national and international organizations. Funding for travel is available on a competitive basis.

Graduates of the program find employment abroad with international and bilateral agencies, government departments, nongovernmental organizations, and research and academic institutions. Many also work with US-based organizations concerned with global issues. Some graduates go into clinical fields and others go on to pursue a doctoral degree.

The department co-sponsors a PhD program in Nutrition and Health Sciences and a PhD program in Global Health and Development. These two programs are administered by the Laney Graduate School at Emory University. For more information about this degree program visit: <http://www.graduateschool.emory.edu/degree-programs>.

Department Admission Criteria

The Hubert Department of Global Health seeks students who are passionate about global health and wish to improve the health of their local and global communities. Successful applicants demonstrate this commitment through career experience, service, or training in global health related areas. This might include working with underserved communities or within a local, state, or regional public health entity (either domestically or internationally), volunteer or mission experience, or service with Peace Corps, AmeriCorps, etc.

Presently, applicants to our MPH programs are not required to submit GRE or MCAT test scores. The submission of GRE scores is optional but is recommended for those who believe their GRE scores will help support their application. Submitted test scores may not be more than five years old.

Traditional Global Health Program Requirements

Completion of the MPH in Global Health requires 42 semester hours of coursework. Full-time students complete these requirements in two academic years. Students are required to take Rollins and departmental core courses as well as elective courses based on their areas of interest. To personalize and strengthen their training, students have the flexibility to take courses at Rollins, from other graduate programs at Emory University and sometimes at other Atlanta universities through the ARCHE program. In addition to coursework, students are required to complete an Integrative Learning Experience (ILE). The ILE provides students an opportunity to integrate and apply knowledge, concepts, and skills learned in GH coursework to a global health challenge or opportunity. The ILE can take the form of either a capstone or a thesis. The capstone is an instructor-driven experience where students complete an individual public health deliverable in one semester. The thesis is an independent, HDGH faculty-mentored project where students complete an individual scholarly product and presentation over two semesters.

The Hubert Department of Global Health places great importance on the Applied Practice Experience (APE), which is designed to complement academic training with practical, hands-on experience. The APE is a significant educational experience that requires a minimum of 200 hours in a public health agency, governmental, non-governmental, non-profit, or for-profit setting. The APE may provide an opportunity for some students to gather data or experience required in the development of their Integrative Learning Experience. Please find school and department core requirements outlined below.

Program Requirements for MPH Degree in Global Health

Course Number	Course Title	Credit Hours
BIOS 500/BIOS 500L	Statistical Methods I	4
BSHES 500	Behavioral and Social Sciences for Public Health	2
EH 500	Perspectives in Environmental Health	2
EPI 530/EPI 530L	Epidemiological Methods I	4
HPM 500	Introduction to U.S. Health Care System	2
PUBH 500	Introduction to Public Health	0
PUBH 501	Interprofessional Education and Public Health Leadership	0

Required HDGH Core Courses

GH 501	Health Systems, Social Justice, and Equity	3
GH 502	Evidence-Based Global Health Policy, Programs, and Research	3
GH 511	Program Cycle 1: Planning and Managing Global Health Programs	3
GH 512	Program Cycle 2: Monitoring and Evaluation of Global Health Programs	3
GH 521	Qualitative Methods I: Data Collection	3
GH 531	Quantitative Methods I: Data Collection	3
GH 595	Applied Practice Experience	0

Electives Courses: Students must take a minimum of 3 credit hours of elective coursework to meet the 42-credit hour requirement for the MPH degree.

GLOBAL HEALTH

Data Analysis Courses: Students are required to complete a minimum of 3 credits in data analysis driven courses. **Students are required to choose one course from the list below.**

Course Number	Course Title	Credit Hours
GH 522	Qualitative Methods 2: Data Analysis	3
BSHES 500	Quantitative Methods 2: Data Analysis	3

Note: RSPH Students cannot ‘double-dip’ with courses. If students use a course to meet a degree requirement, with the exception of elective coursework, students may not also use this course to meet the certificate requirement.

Integrative Learning Experience

Students in the Hubert Department of Global Health are required to complete an integrative learning experience (ILE) that demonstrates knowledge and skills gained during the completion of the MPH. The ILE product can be used to showcase the student’s individual skills and training to a future employer. This four-credit hour ILE is a rigorous academic requirement; it is the culmination of an MPH experience. Students may choose either a Capstone or a Thesis to complete this requirement. The Capstone is an instructor-driven experience where students complete an individual public health deliverable in one semester. Each Capstone section will differ in thematic content and skillset emphasized, based on instructor expertise, but all will require integration of key deliverables from the HDGH course sequences. The Thesis is an independent, HDGH faculty-mentored project where students complete an individual scholarly product and presentation over two semesters. For the Thesis, HDGH students may choose between a special studies project (e.g., a deliverable driven project) or a research project (e.g., systematic review, analysis of primary or secondary data) using quantitative, qualitative, or other methodologies. The thesis is a project that a Global Health Faculty member (Thesis Chair) and, optionally, other committee members supervise. While the thesis takes two semesters to complete, students register for the course the last full-time academic semester. The thesis can be presented in a traditional style or as a publishable manuscript style.

Course Number	Course Title	Credit Hours
GH 598	Capstone	4
GH 599R	Thesis	4

Accelerated Program Concentration

The Accelerated Program Concentration is intended for experienced public health professionals interested in enhancing their knowledge of global health issues and building leadership skills. The Accelerated Program Concentration requires three semesters, or 12 months in residence, to complete forty-two credit hours. It also includes an Applied Practice Experience and Integrative Learning Experience (i.e., thesis). Once matriculated, it is not possible to transfer into, or out of, the Accelerated Program Concentration.

Admission into the Accelerated Program Concentration is competitive. Applicants are required to meet the following criteria at a minimum:

- A bachelor’s degree (e.g., BA, BS) or first professional degree (e.g., MBBS) from an accredited university.
- At least 3 years of relevant public health experience post-bachelor’s or first professional degree.

All applicants must include a statement outlining the proposed ILE/thesis topic and thesis chair in their admissions packet. Applicants are encouraged to contact HDGH faculty in advance of their application to explore thesis opportunities and support.

Accelerated Global Health MPH Program Requirements

The accelerated MPH program requires 42 credits of coursework, just as the traditional MPH program. The Accelerated curriculum includes 14 credits of Rollins core courses and 22 credits of departmental

core courses. Students will then select a minimum of 6 additional elective credits of coursework. In consultation with their faculty advisor, Accelerated students tailor their courses to best fit their professional and career objectives. For their ILE, Accelerated students are required to complete a Thesis.

Required RSPH Core Courses

Course Number	Course Title	Credit Hours
BIOS 500/BIOS 500L	Statistical Methods I	4
BSHES 500	Behavioral and Social Sciences for Public Health	2
EH 500	Perspectives in Environmental Health	2
EPI 530/EPI 530L	Epidemiological Methods I	4
HPM 500	Introduction to U.S. Health Care System	2
PUBH 500	Introduction to Public Health	0
PUBH 501	Interprofessional Education and Public Health Leadership	0

Required HDGH Core Courses

Course Number	Course Title	Credit Hours
BSHES 530	Program Evaluation	3
GH 501	Health Systems, Social Justice, and Equity	3
GH 502	Evidence-Based Global Health Policy, Programs, and Research	3
GH 521	Qualitative Methods 1: Data Collection	3
GH 531	Quantitative Methods 1: Data Collection	3
GH 589	Global Health Program Management	3
GH 595	Applied Practice Experience	0
GH 599	Integrative Learning Experience (Thesis)	4

Electives Courses: Students must take a minimum of 6 credit hours of elective coursework to meet the 42-credit hour requirement for the accelerated degree. Below is a list of suggested courses students may choose from.

Course Number	Course Title	Credit Hours
GH 505	Social Entrepreneurship for Health	1
GH 509	Translation & Implementation Science	2
GH 514	Social and Behavioral Change Communications	2
GH 515	Transforming Public Health Surveillance	3
GH 524	Health Systems Performance and Financing: Methods and Evidence	2
GH 529	Water and Sanitation in Developing Countries	2
GH 545	Nutritional Assessment	3
GH 552	Global Elimination of Micronutrient Malnutrition	2
GH 556	Foundational Ethical Challenges in Global Health	3
GH 561	Applications of Public Health Economics in Low and Moderate-Income Countries	2
GH 570	Community Based Participatory Action Research	3
GH 577	The GEMMA Seminar: The Global Elimination of Maternal Mortality from Abortion	2
BIOS 501	Statistical Methods II	4
BIOS 550	Sampling Applications	2
HPM 522	Economic Evaluation of Health Care Programs	4

GLOBAL HEALTH

Interdepartmental Programs

The Hubert Department of Global Health offers two interdepartmental programs. A joint MPH or MSPH degree is offered in Global Epidemiology with the Department of Epidemiology and a joint MPH degree in Global Environmental Health is offered with the Gangarosa Department of Environmental Health. For more information and specific coursework, please refer to the Interdepartmental Programs section of this catalog.

Global Health and Development Doctoral Program

The Doctoral Program in Global Health and Development (GHD) is a new and distinctive training program anchored in the Hubert Department of Global Health and affiliated with the Public Health Sciences cluster of doctoral programs within the James T. Laney School of Graduate Studies.

The goal of this program is to train leaders and scholars who use science to improve public health policy and practice for underserved populations globally. Graduates will acquire a solid understanding of the theoretical frameworks of implementation science and relevant methodological skills required to guide programs and policies that are designed to improve health outcomes in a variety of settings across the globe.

Training will provide students with deep and broad expertise in the field of global health and development, creativity to cross discipline boundaries, courage to challenge convention, and confidence to ask unexpected questions and articulate bold new perspectives.

Training faculty include 55 core faculty members and 9 affiliated faculty members who are based at several partner institutions such as the Carter Center, Task Force for Global Health, and the U.S. Centers for Disease Control and Prevention. The core faculty have primary appointments in the Rollins School of Public Health, Emory School of Medicine, Emory College of Arts and Sciences, Goizueta School of Business, Nell Hodgson School of Nursing and Emory Law School and represent a wide variety of disciplines.

GHD Admissions Requirements

Applications and all supporting credentials must be received by December 1 for consideration for admission the following fall. Students are only admitted to matriculate in the fall semester.

Application information is available online at: <https://www.gs.emory.edu/admissions/requirements.html>.

GHD Degree Requirements

A full-time course load, considered 9 credit hours or more per semester, is required for all GHD doctoral students. All students must pass the Qualifying Exam before taking the General Doctoral Exam. A Master's degree will not be granted without a thesis. Independent of admission status, all students in the GHD Doctoral Program are required to take and pass the Qualifying Exam. Please contact Joan Lynfatt to learn more about this program: jalynfatt@emory.edu.

Faculty

O. Yaw Addo, Research Assistant Professor and Epidemiologist – CDC Nutrition Branch, BSc. University of Ghana, 2001; MS, University of Cincinnati, 2007; PhD, University of Minnesota- Twin Cities, 2010. Maternal-Child Health, Nutritional & life course epidemiology, Child growth & maturation and related outcomes, global health, public health surveillance.

Liliana Aquayo-Markes, Research Assistant Professor. BA, Loyola University, 2006; MPH, University of Illinois at Urbana-Champaign, 2018; PhD, 2018. Obesity prevention, cardiovascular disease, diabetes, social epidemiology, adolescent and child health, spatial analysis/GIS.

Mohammed K. Ali, Professor. William H. Foege Chair of Global Health. MD, University of Cape Town, 2003; MSc (cardiovascular medicine), University of Oxford, 2007; MSc (Global Health), University of Oxford, 2007; MBA, Emory University, 2012. Cardiovascular disease and diabetes, Translation and implementation science, Health services research, Preventive medicine, Primary care.

- Solveig Argeseanu**, Associate Professor. BA, George Washington University, 1997; MSc, London School of Economic and Political Science, University of London, 2001; MA, University of Pennsylvania, 2003; PhD, University of Pennsylvania, 2006. Demography, chronic disease and mortality, health over the life course, migrant and refugee health, social and contextual influences on health.
- A. Cornelius Baker**, Research Assistant Professor. BA, Eisenhower College/Rochester Institute of Technology, 1983. HIV/AIDS, Health services delivery to sexual and racial, ethnic minority populations, Community mobilization, civil society, and human rights.
- Robert A. Bednarczyk**, Associate Professor. BS, Lebanon Valley College, 1997; MS, SUNY-Albany School of Public Health, 2006; PhD, 2010. Adolescent and adult vaccines, vaccine policy, human papillomavirus, adolescent health, clinical and field trials, quantitative data analysis.
- John B. Blevins**, Research Associate Professor. BA, Furman University, 1989; MDiv, Duke University, 1992; PhD, Emory University, 2005. Religion and public health, religion and sexual health, religion and HIV/AIDS, community-level HIV prevention, community health assets mapping.
- Robert F. Breiman**, Professor. BS, University of Arizona, 1975; MD, 1979. Internal Medicine and Infectious Diseases, UCLA, 1987; Child mortality, acute respiratory infections, diarrheal diseases, bacterial and viral vaccines, typhoid fever, urbanization, surveillance, emerging infectious diseases, and outbreak response.
- Bethany Caruso**, Assistant Professor. BA Wesleyan University, 2003; MPH, Emory University, 2009; PhD, 2015. Behavior and health, Safe Water, Sanitation and Hygiene, Women's Health, Evaluation.
- Kenneth G. Castro**, Research Professor. Coordinator Humphrey Fellowship Program. BSc, University of Puerto Rico, 1974; MSc candidate, Northeastern University, 1976; MD, State University of New York at Stony Brook School of Medicine, 1980. Social Internal Medicine. Montefiore Medical Center, Albert Einstein College of Medicine, NY. 1983; EIS Program, CDC, 1985; Infectious diseases, School of Medicine, Emory University, 1989. Global and domestic infectious diseases with a focus on HIV, tuberculosis, diagnostics, clinical trials, and epidemiologic studies aimed at informing evidence-based policies.
- Cari Jo Clark**, Associate Professor. BA, University of Kansas, 1996; MPH, Yale School of Public Health, 1999; ScD, Harvard School of Public Health, 2005. Health effects of exposure to child maltreatment and intimate partner violence and the design and evaluation of violence prevention strategies in low and middle- income countries.
- Dabney P. Evans**, Associate Professor. Executive Director, Institute of Human Rights. Director, Center for Humanitarian Emergencies. BA, Arizona State University, 1996; MPH, Emory University, 1998; PhD, University of Aberdeen, 2010. Health and human rights, gender-based violence, femicide, intimate partner violence, violence against women and girls, commercial sexual exploitation, sexual and reproductive health and rights, complex humanitarian emergencies, capacity building.
- Ghada N. Farhat**, Research Associate Professor and Director of Graduate Studies. BSc, American University of Beirut 1998, MPH, 2000; PhD, University of Pittsburgh, 2006. Non-communicable diseases with a focus on cancer, research and public health capacity strengthening initiatives in diverse global settings including Africa and the Middle East.
- William H. Foegen**, Presidential Distinguished Professor of Public Health Emeritus. BA, Pacific Lutheran College, 1951; MD, University of Washington, 1961; MPH, Harvard University, 1965. Disease eradication and agricultural projects of Global 2000 of The Carter Center, child survival and development, global tobacco plague, medical ethics, preventive medicine, injury control.
- Unjali P. Gujral**, Research Assistant Professor. BA. University of California, Irvine, 2003; MPH, Yale University, 2010; PhD, Emory University, 2015. Diabetes and Cardiovascular disease; Ethnic differences in cardio-metabolic physiology; South Asian cardio-metabolic health.
- Monique Hennink**, Teaching Associate Professor. BA, Flinders University of South Australia, 1987; PhD, University of Southampton, 1998. Demography, reproductive health, and sexual behavior, HIV/AIDS, culture and behavior, microcredit and health, qualitative research methods, Africa, and Asia.
- Sophia A. Hussen**, Assistant Professor. BA, Harvard University (Biological Sciences), 2000; MPH, University of Michigan (Health Behavior and Health Education), 2002; MD, University of Pennsylvania, 2006. HIV/AIDS, adolescent health, health disparities.
- Ram Jagannathan**, Research Associate Professor. MS, University of Madras, 2005; PhD, Imperial College of London, 2014. Diabetes, Chronic disease research and health equity.
- Miriam Kiser**, Research Assistant Professor Emeritus. BA, Georgia State University, 1990; MPH,

Emory University, 1993; DMin. Wesley Theological Seminary, 2011. Health as social justice; community engagement; leadership development; religion as a social determinant of health.

Joshua Jeong, Assistant Professor. BS, Cornell University, 2013; ScM, Harvard T.H. Chan School of Public Health, 2015; ScD, Harvard T.H. Chan School of Public Health, 2018. Early childhood development with focus on parental role.

Keith P. Klugman, Emeritus William H. Foege Professor of Global Health. MBBCH, PhD, University of the Witwatersrand (Johannesburg), 1981; DTMH, 1985; FRC Path, London, 1991; FRSS Afr (South Africa), 1996. Director of the Pneumonia Program, Gates Foundation.

James V. Lavery, Professor and Conrad N. Hilton Chair in Global Health Ethics. Director of Graduate Studies, Global Health and Development PhD Program, Laney Graduate School, Emory University. BA University of Western Ontario, 1985; BSc, McMaster University, 1981; MSc, University of Toronto, 1994; PhD, 1999. Global health, ethics, research ethics, community engagement, social innovation in ethics, “Humanizing” global health, Brokered Dialogue.

Juan S. Leon, Associate Professor. BA, Dartmouth College, 1996; PhD/MPH, Northwestern University, 2003. Infectious disease, immunology, enteric and foodborne diseases, food safety, diarrhea, norovirus, parasitology, Chagas heart disease, rotavirus, vaccines, Latin America, Latino immigrants.

Pengbo Liu, Research Associate Professor. BS, Xi’an Jiaotong University, China, 1991; MSc, Xi’an Jiaotong University, China, 1994; PhD, Peking Union Medical College, China, 1997. Infectious diseases, foodborne and waterborne diseases, water microbiology, enteric pathogens detection in environments, norovirus, bioinformatics, next-generation sequencing data analysis.

Felipe Lobelo, Associate Professor. MD, Rosario University, Bogota, Colombia, 2002; PhD University of South Carolina, 2010; EIS Class 2008. Chronic disease prevention, social determinants of health infectious and chronic diseases, implementation science, mHealth; physical activity, obesity, and cardio-metabolic diseases in high and low-to-middle income countries.

Hanqi Luo, Research Assistant Professor. BSc, University of Science and Technology, Beijing, 2008; MSc, Tufts University, 2011; PhD, University of California, Davis, 2017. Designing and developing software for dietary and biomarker data analysis, micronutrient interventions.

Glen F. Maberly, Professor Emeritus. BSc, University of New South Wales, 1975; MB/BS, 1977; MD, 1983. Micronutrient malnutrition, endocrinology.

Matthew Magee, Associate Professor. BA, Grinnell College, 2001; MPH, University of Illinois at Chicago, 2006; PhD, Emory University, 2013. Co-occurring infectious and non-communicable diseases, tuberculosis, diabetes mellitus.

Rebecca Martin, Research Professor. Vice President for Global Health, Director of the Emory Global Health Institute.

Reynaldo Martorell, Research Professor and Emeritus Woodruff Professor of International Nutrition. AB, St. Louis University, 1969; PhD, University of Washington, 1973. Former Robert W. Woodruff Professor of International Nutrition. Maternal and child nutrition; child growth, micronutrient malnutrition; functional consequences of nutrition in early life; design and evaluation of nutrition interventions; food and nutrition policy; obesity in low and middle- income countries.

Deborah A. McFarland, Associate Professor. BA, Ohio Wesleyan University, 1968; MPH, University of North Carolina-Chapel Hill, 1973; MSc, London School of Economics, 1984; PhD, University of Tennessee, 1987. Health systems strengthening in LMICs, health economics of infectious diseases, neglected tropical diseases, health policy and governance, health financing, equity and the poor.

Joanne A. McGriff, Research Assistant Professor. Assistant Dean for Diversity, Equity, and Inclusion. AB, Princeton University, 1997; MD, University of Rochester School of Medicine and Dentistry (NY), 2003; MPH, University of Rochester (NY), 2003; JM, Emory University School of Law, 2017. WASH in healthcare facilities; WASH and behavior; mental health; Haiti; monitoring and evaluation; nonprofit management.

Scott J McNabb, Research Professor. BS, University of Oklahoma, 1972; MS, University of Oklahoma Health Sciences Center, 1976; PhD, University of Oklahoma Health Sciences Center, 1986. Epidemic Intelligence Service (1991). Public health surveillance; oral and written scientific communication; public health informatics; management and leadership; on-line, e-Learning; monitoring and evaluation.

Christine L. Moe, Eugene J. Gangarosa Professor of Safe Water and Sanitation, Hubert Department

- of Health; Director, Center for Global Safe Water, Sanitation and Hygiene at Emory University; BA, Swarthmore College, 1979; MS, University of North Carolina-Chapel Hill, 1984; PhD, 1989. Environmental transmission of infectious agents; epidemiology of foodborne and waterborne diseases; environmental microbiology; water, sanitation, and health.
- Subasri Narasimhan**, Research Assistant Professor. BA, University of North Carolina-Chapel Hill, 2006; MPH, 2010; PhD, University of California-Los Angeles, 2018; Postdoc, Emory University, 2020. Reproductive health, abortion, gender-based violence, maternal and child health.
- K. M. Venkat Narayan**, O. C. and Ruth Hubert Professor. MBBS, St. Johns Medical College, 1980; MSc, University of Edinburgh, 1987; MFPHM, Royal College of Physicians, 1988; MBA, Herriot Watt University, 1995. Diabetes, obesity, and nutrition. Member, National Academy of Medicine (Elected 2016).
- Helena Pachón**, Research Professor. BS, Cornell University, 1993; MS, 1996; MPH, Harvard University, 2002; PhD, Cornell University, 2006. Nutrition, with a focus on fortification.
- Shivani A. Patel**, Assistant Professor. BS, University of Michigan, 2003; MPH, University of Michigan, 2009; PhD, Johns Hopkins, 2013. Social epidemiology and health disparities, cardio-metabolic disease, obesity, India.
- Usha Ramakrishnan**, Chair and Distinguished Richard N. Huber Professor of Global Health. BS, University of Madras, 1983; MS, 1985; PhD, Cornell University, 1993. Childhood malnutrition, maternal and child nutrition, micronutrient malnutrition.
- Elizabeth Rhodes**, Assistant Professor. AB, Brown University, 2006; MS, Harvard University, 2011; PhD, Emory University, 2018. Maternal and child nutrition, prevention of obesity and type 2 diabetes, health equity.
- Roger W. Rochat**, Research Professor, Emeritus. MD, University of Washington, 1966. Reproductive Health, Global Elimination of Maternal Mortality from Abortion, MCH Epidemiology, program evaluation.
- Hui Shao**, Associate Professor. MD, Shandong University, 2010, MHA, 2012; PhD, Tulane University, 2017. Artificial Intelligence, Diabetes, Cardiometabolic Diseases.
- Karen R. Siegel**, Research Assistant Professor. BA, University of Pennsylvania, 2004; MPH, Yale University School of Public Health, 2007; PhD, Emory University, 2014. Dietary patterns and prevention of type 2 diabetes.
- Sheela Sinharoy**, Assistant Professor. BA, Pennsylvania State University, 1999; MPH, University of North Carolina-Chapel Hill, 2008; PhD, Emory University, 2017. Nutrition of women and children, agriculture and food security, gender and empowerment, water, sanitation and hygiene, household air pollution, program evaluation.
- Lisa R. Staimetz**, Research Assistant Professor. BS, University of Arizona, 1999. MPH, Yale University, 2003; PhD, Emory University 2013. Diabetes pathophysiology, epigenetics and type 2 diabetes, lifestyle interventions, nutrition, and diet.
- Aryeh D. Stein**, Professor. BSc, University of London, 1984; MPH, Columbia University, 1989. PhD, 1992. Nutritional epidemiology, diet and chronic diseases, life course epidemiology, intergenerational effects on health, monitoring and evaluation of public health programs.
- Sandra L. Thurman**, Professor of Practice. Joseph W. Blount Center for Health and Human Rights and Senior Lecturer. BS, Mercer University; MA, Community Pastoral Care, Saint Paul's University, Limuru, Kenya. HIV/AIDS, religion and public health, human rights.
- Lavanya Vasudevan**, Associate Professor. BPharm, University of Mumbai, 2003; PhD, Cornell University, 2009; MPH, Johns Hopkins University, 2012. Vaccine delivery and hesitancy, global health disparities.
- Rachel Waford Hall**, Research Assistant Professor. BA, Western Kentucky University 2004, MA, Western Kentucky University 2006, PhD, University of Louisville, 2013. First Episode Psychosis; Early identification, intervention, and prevention for severe mental illness in young people and other vulnerable populations; Community education and advocacy for mental illness: Immigrant and refugee mental health.
- Amy Webb Girard**, Research Associate Professor. BS, Mercer University, 1997; PhD, Emory University, 2006. Maternal and child health, particularly in relation to nutrition and food security, breastfeeding, and HIV.
- Mary Beth Weber**, Assistant Professor and Director of Graduate Studies. BS, University of Georgia,

GLOBAL HEALTH

1999; MPH, Emory University, 2002; PhD, 2012. Diabetes and obesity, translational research, lifestyle interventions, lifestyle behaviors.

Cynthia Whitney, Research Professor. BS, Iowa State University of Science and Technology, 1986; MD, University of Minnesota Medical School, 1990; MPH, Harvard School of Public Health, 1997. Child health and mortality, vaccines, infectious disease.

Kate Winskell, Associate Professor. BA, Wadham College, University of Oxford, 1988; MA, Courtauld Institute, University of London, 1990; PhD, 1995. Communication for social and behavioral change, sexuality, and HIV/AIDS.

Melissa Young, Assistant Professor. BS, Iowa State University 2006. PHD, Cornell University 2011. Maternal and Child Nutrition, breastfeeding, complementary feeding, child growth, micronutrient malnutrition, program implementation and evaluation.

Kathryn M. Yount, Asa Griggs Candler Chair of Global Health and Professor, Hubert Department of Global Health, and Department of Sociology. BA, University of North Carolina– Chapel Hill, 1991; MHS, Johns Hopkins University, 1994; PhD, 1999. Gender, empowerment, gender-based violence, women's and children's health, research methods for the social sciences in lower-income populations and settings.

Jointly Appointed Faculty

Susan Allen, Professor. BA, Duke University, 1980; DTMH, Liverpool School of Tropical Medicine, 1983; MD, Duke University, 1984; MPH, University of California at Berkeley, 1995. Emory University School of Medicine.

Ruth L. Berkelman, O. Wayne Rollins Professor Emeritus. BA, Princeton University, 1973; MD, Harvard Medical School, 1977. Epidemiology Department, Rollins School of Public Health.

Henry Blumberg, Professor. BA, Washington University, 1979; MD, Vanderbilt University, 1983. Emory University School of Medicine.

Alfred Brann, Professor, BA Vanderbilt University; MD, Tulane University. Emory University School of Medicine.

Peter Brown, Professor. BA, University of Notre Dame, 1975; MA, State University of New York, Stony Brook, 1976; PhD, 1979. Department of Anthropology, Emory University.

Michael Chung, Professor, Associate Director for Emory Global Health Institute. BA, Oberlin College, 1990; MD, University of Chicago, 1998; MPH, Harvard School of Public Health, 1998; PhD, Ghent University (2021). Emory University School of Medicine.

Thomas F. Clasen, Professor, Rose Salamone Gangarosa Chair in Sanitation and Safe Water. BA, St. Mary's University of Minnesota, 1978; JD, Georgetown University, 1981; MSc, London School of Hygiene & Tropical Medicine, 2002; PhD, University of London, 2006. Gangarosa Department of Environmental Health, Rollins School of Public Health.

Jonathan Colasanti, Associate Professor. BA, University of Virginia, 2004; MD, University of Miami, 2005; MSPH, University of Miami, 2012. Emory University School of Medicine.

Cheryl Day, Associate Professor. BS, Emory University 1998. PhD, Harvard University, 2003. Emory University School of Medicine.

Carlos del Rio, Interim Dean, Emory School of Medicine, Leon Haley, Jr. Distinguished Professor of Medicine, Infectious Diseases; and Executive Associate Dean for Emory at Grady, Emory University School of Medicine; Professor of Global Health and Epidemiology, Rollins School of Public Health and Co-Director, Emory CFAR. Former Hubert Professor and Chair. MD, Universidad La Salle (México), 1983. Emory University School of Medicine.

Jessica K Fairley, Associate Professor. BS, Georgetown University, 1997; MD, Georgetown University, 2003; MPH, Emory University, 2016. Emory University School of Medicine.

Matthew C. Freeman, Professor. BA, Wesleyan University, 2000; MPH, Emory University, 2005; PhD, London School of Hygiene and Tropical Medicine, 2011. Gangarosa Department of Environmental Health.

Mary R. Galinski, Professor and Director Malaria Host-Pathogen Interaction Center (MaHPIC). BS, State University of New York, 1979; MS, New York University School of Medicine, 1983, PhD, 1987. Emory University School of Medicine.

Neel R. Gandhi, Professor. BA, Williams College, 1994; MD, Brown-Dartmouth Program in Medical Education, 1999. Department of Epidemiology. Rollins School of Public Health.

- Richard Goodman**, Professor, MD, University of Michigan–Ann Arbor, 1975; MPH, University of California Los Angeles, 1983; JD, Emory University School of Law, 2001. Emory University School of Medicine.
- Craig Hadley**, Professor and Chair. BS, University of Utah, 1998; PHD, University of California Davis. Department of Anthropology, Emory College.
- Rachel Hall-Clifford**, Assistant Professor. BA, The University of the South, 2001; MS, University of Oxford, 2001; MPH, Boston University, 2005; PhD, Boston University, 2009. Emory College.
- Saria Hassan**, Assistant Professor. BSc, Massachusetts Institute of Technology, 2001; MD, Harvard Medical School, 2006; MPH, University of London, School of Tropical Medicine and Hygiene, (2021). Emory University School of Medicine.
- Robert A. Hatcher**, Professor Emeritus. BS, Williams College, 1959; MD, Cornell University, 1963; MPH, University of California, Berkeley, 1973. Emory University School of Medicine.
- James M. Hughes**, Professor Emeritus. BA, Stanford University, 1966; MD, Stanford University, 1971. Emory University School of Medicine (Infectious Diseases).
- Ameeta Kalokhe**, Associate Professor. BS, University of Michigan, 2001; MD, Wayne State University 2005; MSc, Emory University 2011. Emory University School of Medicine.
- Megan Lawley**, Assistant Professor. BA, Emory University, 2002; MD, Emory University School of Medicine, 2012; MPH, Emory University School of Public Health, 2018. Emory University School of Medicine.
- Thomas Lawley**, Professor. MD, State University of New York (SUNY), Buffalo, NY. EVP Health Affairs.
- Vincent Marconi**, Professor. BS, University of Florida, 1996; MD, Johns Hopkins University, 2000. Emory University School of Medicine.
- John E. McGowan Jr.**, Professor Emeritus. BMS, Dartmouth Medical School, 1965; MD, Harvard University, 1967. Department of Epidemiology.
- Walter A. Orenstein**, Professor. BS, City College of New York, 1968; MD, Albert Einstein College of Medicine, 1972; DSc (Hon), Wake Forest 2006. Emory University School of Medicine.
- Polly J. Price**, Asa Griggs Candler Professor of Law, and Professor of Global Health. BA, Emory University, 1986; M.A., Emory University, 1986; J.D., Harvard Law School 1989.
- Paulina A. Rebolledo**, Associate Professor. MD, Universidad La Salle, 2003; MSC, Emory University, 2008; Internal Medicine Residency, Emory University, 2009; Infectious Disease Fellowship, Emory University, 2013; Medical Microbiology Fellowship, Emory University, 2014.
- Elizabeth Rogawski McQuade**, Assistant Professor. BS, Emory University, 2010; MSPH, University of North Carolina-Chapel Hill, 2012; PHD, 2015. Department of Epidemiology, Rollins School of Public Health.
- Ira K. Schwartz**, Associate Professor. BS, Union College, 1972; MD, University of Chicago, 1977. Emory University School of Medicine.
- N. Sarita Shah**, Associate Professor. BA, Johns Hopkins University, 1996; MD, Johns Hopkins School of Medicine, 2000; Internal Medicine, Columbia-Presbyterian Medical Center, 2003; MPH, Columbia Mailman School of Public Health, 2004. Tuberculosis, HIV, transmission, prevention. Department of Epidemiology, Rollins School of Public Health.
- Andi L. Shane**, Professor. BA, University of Pennsylvania, 1990; MPH, Columbia University, 1992; MD, Louisiana State University. Emory University School of Medicine.
- Sydney A. Spangler**, Assistant Professor. BS/BSN, University of Utah, 1997; MSN, University of Utah, 1999; PhD, University of North Carolina at Chapel Hill, 2009.
- Anne Spaulding**, Associate Professor. ScB, Brown University, 1984; MD, Medical College of Virginia, 1989; MPH, Johns Hopkins School of Public Health, 2005. Department of Epidemiology.
- Laurence Sperling**, Professor. BA, Emory University, 1985; MD, 1989. Emory University School of Medicine.
- Parminder Suchdev**, Professor. BS/BSA, University of Arizona, 1998; MD/MPH, Northwestern University, 2002.
- Patrick Sullivan**, Professor. BS, Emory University, 1988; DVM, University of Tennessee, 1992; PhD, 1994. Department of Epidemiology, Rollins School of Public Health.
- Peter W. F. Wilson**, Professor. BS, Yale University, 1970; MD, University of Texas at San Antonio, 1974. Emory University School of Medicine.

Marlene Wolfe, Assistant Professor. BA, Stanford University, 2011; MSc, London School of Hygiene and Tropical Medicine, 2018; PhD, Tufts University, 2019. Gangarosa Department of Environmental Health, Rollins School of Public Health.

Brian Zanoni, Assistant Professor. BS, Saint Joseph's University, 1997; MD, Georgetown School of Medicine, 2002; MPH, Harvard School of Public Health, 2011. Emory University School of Medicine.

Amy Zeidan, Assistant Professor. BA, Gustavus Adolphus College, 2008; Research Training Fellow, NIH, 2010; MD, George Washington University, 2014. Emory University School of Medicine.

Adjunct Faculty

Ali M.AL-Shehri, Adjunct Professor. MD, King Saud University 1985; MSc, King Saud University 1988. College of Public Health and Health Informatics, King Saud University.

Sulieaman Nasser Al Shehri, Adjunct Assistant Professor. MBBS, King Saud University, 1982; MPH, Johns Hopkins University, 1987; PhD, University of London, 1998. Director General for School Health in the Kingdom of Saudi Arabia (KSA).

Wondimagenehu Alemu, Adjunct Associate Professor. MD, Addis Ababa University, 1983; MPH/TM, Tulane University, 1991. WHO Representative, Nigeria.

James Banaski Jr., Adjunct Instructor, BS, Drury University, 2003; MSc, Webster University, 2004. Centers for Disease Control and Prevention.

Ibrahim Bani, Adjunct Associate Professor. MD, Khartoum Medical School 1977; PhD, University of Surrey, 1974; DTMH, Royal College of Physicians, 1984. King Abdulaziz University of Health Sciences.

David Bell, Adjunct Professor. AB, Princeton University, 1973; MD, Harvard Medical School, 1977; EIS, CDC, 1981. Lecturer.

Robert S. Bernstein, Adjunct Associate Professor. AB, University of Pennsylvania, 1965; MS, Pennsylvania State University, 1968; PhD, 1971; MD, University of Connecticut, 1977; MPH, Johns Hopkins University, 1979. Management Sciences for Health.

Oleg Bilukha, Adjunct Associate Professor. MD, Lviv State Medical Institute, Ukraine; PhD, Cornell University, Ithaca NY. U.S. Centers for Disease Control and Prevention. National Center for Environmental Health.

Victor Coronado, Adjunct Assistant Professor. MD, Federico Villareal Nacional University, 1979; MPH, Tulane University, 1990. U.S. Centers for Disease Control and Prevention.

S. Deblina Datta, Adjunct Associate Professor. BA, Cornell University, 1990; MD, Mt. Sinai School of Medicine, 1995. U.S. Centers for Disease Control and Prevention.

Richard Dicker, Adjunct Associate Professor. BS, Tufts University, 1974; MD, University of Massachusetts, 1979; EIS, CDC, 1982; MSc, Harvard School of Public Health, 1983.

Ann M. DiGirolamo, Adjunct Assistant Professor. BA, Emory University, 1986; PhD, Indiana University, 1994; MPH, Emory University, 2001. CARE USA.

C. Rafael Flores Ayala, Adjunct Associate Professor. MAPStat, Louisiana State University, 1981; PhD, University of California at Los Angeles, 1989. Centers for Disease Control and Prevention.

Tyralynn Frazier, Adjunct Assistant Professor. BS, Michigan State, 2001; MA, Emory University, 2009; MPH/PhD, Emory University 2014.

Karla I. Galaviz, Adjunct Assistant Professor. BA, University of Guadalajara, 2007; MSc, Queen's University, 2010; PhD, Queen's University, 2011. Indiana University School of Public Health.

Richard Garfield, Adjunct Professor. RN Hahnemann Medical College, 1976; MPH, Columbia University, 1980; DrPH, 1987. U.S. Centers for Disease Control and Prevention.

Roger Glass, Adjunct Professor. BS, Harvard College, 1967; MPH, Harvard School Public Health, 1967; MD, Harvard Medical School, 1967; PhD, University of Goteborg, Sweden, 1972.

Lenette Golding, Adjunct Assistant Professor. BS, Arizona State University, 1996; MPH, Emory University, 2003; PhD, University of Georgia, 2011. Save the Children, Georgetown University.

Ines Gonzalez Casanova, Adjunct Assistant Professor. BSc., School of Nutrition and Dietetics, ISSSTE Mexico, 2006; PhD, Emory University, 2013. Indiana University School of Public Health.

Ashley Greiner, Adjunct Assistant Professor. BA, Boston University, 2006; MPH, Tufts University, 2010; MD, Tufts University School of Medicine, 2010. Centers for Disease Control and Prevention.

Patricia M. Griffin, Adjunct Professor. AB, Immaculata College, 1971; MD, University of

Pennsylvania, 1977. U.S. Centers for Disease Control and Prevention.

Julie Gutman, Adjunct Assistant Professor. BS, University of Wisconsin, 1998; MD, University of Tel Aviv, 2002; MScR, Emory University, 2009. Centers for Disease Control and Prevention.

Carol Haley, Adjunct Associate Professor. BA, Randolph College, 1971; MS, Old Dominion University, 1981; PhD, Virginia Tech, 1997. Consultant.

Douglas Hamilton, Adjunct Professor. BA, Earlham College, 1974; PhD, Vanderbilt University, 1982; MD, 1984. U.S. Centers for Disease Control and Prevention.

Endang Handzel, Adjunct Associate Professor. MD, University Catholic Atmajaya Indonesia, 1998; MPH, Twinning Program Public Health School, University of Indonesia and Mailman School of Public Health - University of Colombia, 2000.

Alan Hinman, Adjunct Professor. BA, Cornell University, 1957; MD, Case Western Reserve University, 1961. Task Force for Global Health (ret).

Michelle Hynes, Adjunct Assistant Professor. BA, University of Colorado, 1991; MPH, Columbia University, 1998; PhD, Emory University, 2012. U.S. Centers for Disease Control and Prevention.

Chikwe Ihekweazu, Adjunct Professor. MBBS, University of Nigeria, 1996; MPH, Heinrich-Heine University, 2001; Dip TM&CM, Rubrecht-Karls University, 2001. Nigeria Centre for Disease Control.

Kashef Ijaz, Adjunct Professor. MD, King Edward Medical College, University of Punjab, 1989; MPH, University of Oklahoma, 1993. The Carter Center.

Sumaya Karimi, Adjunct Assistant Professor. MD, Mazar-e-Sharif Medical University, Afghanistan, 1999. Refugee Women's Network.

Senait Kebede, Adjunct Associate Professor. MPH, Johns Hopkins University, 2002; Doctor of Medicine, Addis Ababa University, Ethiopia, 1985.

Ndunge Kiiti, Adjunct Associate Professor. BS, Houghton College, 1988; MA, Daystar University of Kenya, 1992; PhD, Cornell University, 2002.

Dimple Kondal, Adjunct Assistant Professor. BS, MCM DAV College India; MSc, Panjab University, 2001; MPH, Panjab University, 2002; PhD, All India Institute of Medical Sciences, 2009; Post-Doc, McGill University, 2010.

David Leege, Adjunct Associate Professor. BA, St Olaf College, 1986; MA, University of Wisconsin-Madison, 1987; PhD, Université Montpellier France, 2003.

Eva Leidman, Adjunct Assistant Professor. BA, University of California Los Angeles, 2010; MSPH Johns Hopkins, 2012. U.S. Centers for Disease Control and Prevention.

Helena Lippus, Adjunct Assistant Professor. MD, University of Tartu, 2013.

Barbara Lopes-Cardozo, Adjunct Assistant Professor. MPH, Tulane University, 1993; MD, University of Amsterdam, 1981. U.S. Centers for Disease Control and Prevention.

Marjorie McCollough, Adjunct Associate Professor. BS, Michigan State University, 1983; MS, MGH Institute of Health Professions, 1986; ScD, Harvard University, 1999. American Cancer Society.

Ziad Memish, Adjunct Professor. MD, University of Ottawa, 1987. Saudi Ministry of Health.

Stephanie Miedema, Adjunct Assistant Professor. AB, Mt. Holyoke, 2007; MA, University of London, 2011; MPH/PhD, Emory University, 2020. Emory College.

Tran Hung Minh, Adjunct Professor. MD, Hanoi Medical University, 1992; BA, Hanoi Pedagogical University, 1993; MSc, London School of Tropical Medicine and Hygiene, 2000. Creative Initiatives for Health and Population.

Viswanathan Mohan, Adjunct Professor. Madras Diabetes Research Foundation, Chennai. Diabetes Prevention and Research.

Scott Montgomery, Adjunct Professor. BS, Kansas State University, 1980. MEP, University of Minnesota. Flour Fortification Initiative.

Dale L. Morse, Adjunct Professor. BS, Cornell University, 1971; MD, University of Rochester, 1975; MS, Harvard School of Public Health, 1985. U.S. Centers for Disease Control and Prevention.

Scott Nash, Adjunct Assistant Professor. BS, University of Wisconsin-Madison, 2000; MS, 2008; PhD, 2013. The Carter Center.

Lynnette Neufeld, Adjunct Assistant Professor. BAsc, University of Guelph, 1990; MS, Cornell University, 1995; PhD, 2000. Head of Division of Nutritional Epidemiology, National Institute of Public Health, Cuernavaca, Mexico.

- Antoinette Nguyen**, Adjunct Assistant Professor. BA, Northwestern University, 2005; MD/MPH, Emory University, 2012. Centers for Disease Control and Prevention.
- Kimberly Nguyen**, Adjunct Associate Professor. BA, Tufts University, 2005; MPH, 2006; MS, University of Massachusetts, 2009; Dr.PH, University of South Florida, 2018.
- John Nkengasong**, Adjunct Professor. BSc, University of Yaounde, 1987; MSc, Institute of Tropical Medicine, 1990; MSc, University of Brussels, 1992; PhD, University of Brussels, 1994. Africa CDC.
- Gregory Noland**, Adjunct Associate Professor, BS, Davidson College, 1998; PhD, Johns Hopkins University, 2007; MPH, Emory University, 2018. The Carter Center.
- Patrick O'Carroll**, Adjunct Professor. MD /MPH, Johns Hopkins University, 1983. Task Force for Global Health.
- Ikechukwu Ogbuanum**, Adjunct Assistant Professor. MD, University of Nigeria, 1998; MPH, University of South Carolina, 2006; PhD, University of South Carolina, 2009.
- Chima Ohuabunwo**, Adjunct Professor. BMSc, University of Port Harcourt, 1987; MBBS, University of Port Harcourt, 1990; MPH, Emory University, 2007. Morehouse School of Medicine.
- Claudia Ordoñez**, Adjunct Assistant Professor. BA, National University of Colombia, 1999; MA, Lesley University, 2003.
- Randall Packard**, Adjunct Professor. BA, Wesleyan University, 1967; MA, Northwestern University, 1968; PhD, University of Wisconsin-Madison, 1976. Johns Hopkins.
- Jamie Pina**, Adjunct Assistant Professor. BA, Psychology, University of Massachusetts, 2001; MSPH, Emory University, 2006; PhD, University of Washington, Seattle, 2011. Association of State and Territorial Health Officials.
- Dorairaj Prabhakaran**, Adjunct Professor. MBBS, Bangalore Medical College, 1985; MD, All India Institute of Medical Sciences, 1990; DM, 1993; MSc, McMaster University, 2006. Centre for Chronic Disease Control, New Delhi, India.
- Srinath K Reddy**, Adjunct Professor. MBBS, Osmania Medical College, 1973; MD (Medicine), All India Institute of Medical Sciences, 1977; DM (Cardiology), All India Institute of Medical Sciences, Delhi, 1980; MSc (Epidemiology), McMaster University, 1988. Public Health Foundation of India.
- Juan A. Rivera**, Adjunct Professor. LIC, Universidad Ibero-Americana, 1979; MS, Cornell University, 1984; PhD, 1988. Instituto Nacional de Salud Pública, 2004.
- Mona Saraiya**, Adjunct Professor. BA, University of Chicago, 1987; Rush Medical College, 1991; MPH Emory University, 1995.
- Dirk Schroeder**, Adjunct Associate Professor. BA, Stanford University, 1984; MPH, Johns Hopkins University, 1988; ScD, Johns Hopkins University, 1991. HolaDoctor.
- Omar Shafey**, Adjunct Assistant Professor. BA, Tulane University, 1984; MPH, San Diego State University, 1992; PhD, University of California, San Francisco, 1997. American Cancer Society.
- Kavita Singh**, Adjunct Assistant Professor. BSc, University of Delhi, 2006; MSc, Cranfield University, 2008; PhD, All India Institute of Medical Sciences, 2016.
- Vivek Singh**, Adjunct Associate Professor. MBBS, Government Medical College; MPH, Emory University, 2008; PhD (C) Maastricht University. Indian Institute of Public Health.
- Larry Slutsker**, Adjunct Assistant Professor. BS, University of Michigan, 1973; MPH, University of California, Berkley, 1991; MD, Case Western Reserve University, 1982.
- Julia Smith-Easley**, Adjunct Assistant Professor. BS, University of South Carolina, 1993; MPH, Rollins School of Public Health, Emory University, 1997. U.S. Centers for Control and Prevention.
- Michael St. Louis**, Adjunct Professor. BA, Harvard University, 1976; MD, 1981. Centers for Disease Control and Prevention.
- Barbara Stoll**, Adjunct Professor. AB, Barnard College, 1971; MD, Yale Medical School, 1975. China Medical Board.
- Nikkil Tandon**, Adjunct Assistant Professor. MBBS, India Institute of Medical Sciences, 1986; MD, All India Institute of Medical Sciences, 1989; PhD, University of Cambridge, 1993.
- Bruce G. Weniger**, Adjunct Associate Professor. BA, State University of New York College at Old Westbury, 1970; MPH, University of California, Los Angeles, 1978; MD, 1978. U.S. Centers for Disease Control and Prevention.
- Kun Zhao**, Adjunct Assistant Professor. BA, University of Colorado-Denver, 2001; Math 2008; PhD, Georgia State University, 2011. Centers for Disease Control and Prevention.

Global Health Course Descriptions

GH 500 (2) Critical Issues in Global Health

FALL/SPRING. Pre-requisites: GEH, GH, and GLEPI students may not enroll unless with departmental permission. The overarching objective of GH 500 is to equip students with critical perspectives and resources that they will need as public health professionals and global citizens in our increasingly inter-connected and interdependent world. The course introduces students to: (1) fundamental cross-cutting themes that contextualize contemporary global health issues; and (2) selected health topical areas such as maternal and child health, pandemics, and non-communicable diseases. The course provides an overview of the past, present, and expected future directions of global health.

GH 501 (3) Health Systems, Social Justice, and Equity

FALL. Prerequisites: GEH, GH, and GLEPI students only. This course aims to provide students with an understanding of key aspects of the design, administration and function of health systems and their implications for social justice and equity. Health systems are the primary vehicles through which countries deliver health services to their populations. The course aims to equip students with an understanding of how responsibility, authority and accountability for health systems is created and managed, and how health systems are financed and administered, including the roles and implications of private sector involvement and profit in health systems. And the course examines the complex challenges of measuring the performance of health systems, with special attention to the distinction between equality and equity as organizing concepts for improving the fairness and effectiveness of health systems.

GH 502 (3) Evidence-Based Global Health Policy, Programs, and Research

SPRING. Prerequisites: GEH, GH, and GLEPI students only. The goal of the course is to equip students with critical perspectives to address current and future global health challenges and opportunities as public health professionals and global citizens in this increasingly interdependent world. The course explores historical milestones, actors, assumptions, context and theories driving selected global health priorities in policy, programs and research. To do this, the course will enhance the skills of critical thinking, assessment of evidence from multiple perspectives and application of evidence in formulation of policies, programs and research priorities. A recurring theme throughout the course is that there are common global drivers influencing the health of populations and that cross-cutting issues of equity and systems transcend settings.

GH 504 (2) Effective Oral Communication

FALL. This course is designed to convey the principles and practice of dynamic and persuasive oral communication of scientific information. Its goal is to develop competencies in effective oral communication of scientific research using various techniques to diverse audiences. Course topics include (1) communication as an interactive process; (2) persuasive vis-à-vis informative presentations; (3) distinguishing data, information, and messages; (4) analyzing a target audience; (5) condensing complex messages into soundbite size; (6) effective approaches for visual aids including PowerPoint, YouTube, Prezi, tables, graphs, charts, and photographs; (7) understanding the messages presenters give by their personal image; and (8) strategies for dealing with the media. Students give oral presentations as part of their final grade.

GH 505 (1) Social Entrepreneurship for Health

FALL. Prerequisite: Second-year global health students or permission of instructor. GH 505 provides an introduction to the relatively new, but fast-growing use a business approaches to address social problems; micro financing, made famous by Mahammad Yunus, is an example of social entrepreneurship. The course will examine how social entrepreneurs who produce mission-driven products or services can reduce their dependence on government funds and charitable donations. Students will be exposed to case studies from experienced social entrepreneurs, including the lead instructor, and will also develop their own social enterprise plan. Knowledge and skills acquired through the course include: organizational leadership, market opportunity assessment, product/service development, and budgeting.

GLOBAL HEALTH

GH 508 (2) Health and Human Rights Seminar

SPRING. Examines a spectrum of issues related to health and human rights including three main topics: health as a human right, the impact of human rights abuses on health, and strategies for the adoption of a human rights framework to public health program planning and practice. A flipped classroom approach and case-based learning is used across topics to support critical inquiry into the field of health and human rights.

GH 509 (2) Translation & Implementation Sciences

SPRING. The course aims to introduce students to methods for translating scientific knowledge into real world practice and policy. The course covers topics around identifying and appraising the evidence base, assessing and addressing barriers that impede implementation of proven interventions, designing innovative solutions and studies to test these, and concepts of decision science to promote implementation and sustainability of proven interventions. Throughout the course, students are exposed to case studies of global health interventions which illustrate implementation science concepts while evoking discussion and critical thinking.

GH 511 (3) Program Cycle I: Planning and Managing Global Health Programs

SPRING. This course will provide students with theoretical principles and practical skills for designing and managing global health programs and projects. Sessions will focus on core activities following the project life cycle, including community engagement, formative research, situational analysis, theory of change, project design, principles of project and financial management, and ethical considerations and challenges. This course uses a variety of approaches to foster the development of practical skills in program design and management including lectures, interactive group sessions, discussions with experts, and task-based assignments. This course is a prerequisite for GH512 Program Cycle 2: Monitoring and Evaluation of Global Health Programs.

GH 512 (3) Program Cycle 2: Monitoring & Evaluation of Global Health Programs

FALL/SPRING. Provides students with the technical skills to conceptualize and design process and impact evaluations of international public health programs or projects. Helps students understand the role of monitoring and evaluation in policy analysis, planning, program design and management.

GH 514 (2) Social and Behavior Change Communication

SPRING. Serves as a practical introduction to the methods and theories used in the development, planning and implementation of communication interventions to promote healthy behavior and social change. Participants learn how to describe and analyze behaviors, conduct formative research, design an intervention strategically, write a creative brief to guide materials design, and develop and pretest materials. Case studies range from community-level group communication to mass media campaigns, and address a range of health issues, with particular focus on sexual and reproductive health, especially HIV/AIDS.

GH 515 (3) Transforming Public Health Surveillance

FALL. Transforming Public Health Surveillance (TPHS) provides a review of the history, purposes, activities, uses, elements, data sources, models, analyses, actions, reports, evaluation, and ethical and legal issues of public health surveillance (PHS). It helps students understand the critical importance of the direct association between PHS and public health action, plus develop skills and competencies with the use of data-information-messages and the information and communication technologies that enable, enhance, and empower them. TPHS describes informatics approaches to enable and enhance data sharing, analytics, and visualization though interoperability that adapts to meet the challenges as PHS moves from analog to digital and demonstrates how PHS core functions (i.e., detection, registration, confirmation, analysis, feedback, communication, and response) will be enabled, enhanced, and empowered by these opportunities. Cross-listed with EPI 515.

GH 516 (2) Global Perspectives In Parasitic Diseases

FALL. Prerequisites/concurrent: EPI 530. Focuses on prevalent parasitic infections seen in this country as well as those seen primarily abroad. Topics include parasite lifecycles, immunology, diagnostic methods, clinical manifestations, treatment and follow up, complications, epidemiology, prevention and control, methods of transmission, and future research priorities.

GH 517 (2) Case Studies In Infectious Disease

FALL. Prerequisites/concurrent: EPI 504 or EPI 530 and BIOS 500 or permission of instructor. Provides training in the investigation, control, and prevention of infectious diseases by both descriptive and analytic epidemiological techniques. Students work with infectious diseases of national and international interest. Cross-listed with EPI 517.

GH 518 (2) Emerging Infectious Disease

SPRING. Prerequisite/concurrent: EPI 504, or EPI 530 or permission of instructor. This course examines factors that contribute to the emergence and re-emergence of infectious diseases, and provides a framework for assessing the public health threat changes in these factors on infectious disease epidemiology. Fundamental principles of infectious disease pathogenesis, epidemiology as well as prevention will be addressed using key syndromes or pathogens as examples. Previous course work in microbiology strongly preferred. Cross- listed with EPI 562.

GH 521 (3) Qualitative Methods 1: Data Collection

SPRING. This course will provide students with the principles and skills for conducting and evaluating qualitative research. Topics include: principles of qualitative research, study design, participant recruitment, ethical considerations, instrument design, data collection methods (interviewing, group discussions and observation), transcription and writing. Students will design and conduct a mini qualitative study to apply skills learned to real world situations. The course outlines challenges of using qualitative methods in international settings and provides guidance on fieldwork planning and implementation to prepare students for their Applied Practice Experience.

GH 522 (3) Qualitative Methods 2: Data Analysis

FALL. Prerequisites: GH 521 or instructor permission. This course provides students with the principles and skills for analyzing qualitative data. Students will learn how to assess data quality, prepare data for analysis, use different analytic techniques, and write and present data. Students will learn analytic techniques through guided classroom activities, lab sessions using MAXQDA software and structured assignments. No data are required, we provide class data sets, but students can use qualitative data collected during their summer applied practice experience if suitable. Each student will work with an individual data set in course assignments.

GH 524 (2) Health Systems Performance and Financing: Methods and Evidence

SPRING. Prerequisites: GH 501, GH 502, or HPM 501. Introduces the major policy issues in health care financing for developing countries and transition economies. Topics include models of health care financing used by countries; performance of the systems with respect to equity, efficiency, and effectiveness; evaluation of current financing and health sector reform proposals; and redefinition of the roles of government and the private sector. Investigates health care financing in the economic, political, and social contexts of the country-specific health system reform efforts and broader themes in international development.

GH 526 (3) Interdisciplinary Perspectives on Human Rights

FALL. Open to students from all of the graduate and professional schools pursuing the graduate certificate in human rights. Examines the theory and practice of global and human rights from an interdisciplinary perspective. Examines issues of history, origins, and legitimacy of universal human rights, and discusses standards, institutions, and processes of implementation. Considers human rights across a variety of substantive areas, including: conflict, development, globalization, social welfare, public health, and rights of women and other vulnerable groups.

GH 529 (2) Water and Sanitation in Developing Countries

FALL. The course provides students with techniques needed to develop, evaluate, and sustain successful drinking water and sanitation interventions for developing countries. The course focuses on practical field and laboratory methods needed for different stages of projects, including: assessment of perceived and actual need, alternative strategies for different environmental settings, assessing cost and financial sustainability of projects, laboratory and field techniques for assessing exposure to microbial and chemical agents, and measuring health outcomes (for baseline or effectiveness assessment). This course includes synchronous/asynchronous lectures, in-class activities, live/online discussions, group projects, case studies, a laboratory exercise, and a final project that integrates learning objectives.

GH 531 (3) Quantitative Methods 1: Data Collection

SPRING. This course provides an introduction to the collection of quantitative, representative data. Taking an applied approach, we cover the entire process of designing a study, including instrument design, sampling methods, budgeting and training, fieldwork components, and coding and editing of data. The focus is on collecting data in less-developed countries. Students develop their own surveys and accompanying methods proposals, which they may use for their Applied Practice Experience or other projects.

GH 532 (3) Quantitative Methods 2: Data Analysis

FALL. Prerequisites: EPI 530 and BIOS 500, EPI 540, BIOS 501, and GH 531 strongly recommended. This course provides a conceptual and experiential foundation to address research questions using quantitative data. The course emphasizes the technical skills required to transform a quantitative data set (exemplars: NHANES and Demographic and Health Surveys) into a reproducible analysis for global health applications. Students will receive guided, structured experience with quantitatively operationalizing research questions, data acquisition and management, data exploration, formal data description, conceptualization and construction of composite variables, analysis of statistical associations, and addressing common threats to valid inference. Exercises will be completed using SAS software with an emphasis on programming specific to complex survey designs. Students must register for both lecture and lab components.

GH 534 (2) Diabetes: A Model for Global Non-communicable Disease Prevention & Control

SPRING. Provides students with both content and skills in the field of diabetes, a pandemic of international public health concern, which encourages effective public health programming for diabetes and other chronic diseases. Through a uniquely public health approach, examines a spectrum of issues related to chronic diseases, such as diabetes, and address the implications for public health practice. Published papers on each of these topics are utilized throughout the course to support critical inquiry into the burgeoning field of diabetes public health.

GH 535 (2) Field Epidemiology

FALL/SPRING. Prerequisite: EPI 530. Uses a series of case studies to teach the principles and practice of epidemiology, ranging from surveillance and descriptive epidemiology to outbreak investigations and analytic methods. Focuses on the use of sound epidemiological judgment. Cross listed with EPI 531.

GH 536 (3) Religion & Health in Context: HIV

SPRING. This course will explore the various ways in which religion has been utilized since the start of the HIV epidemic to make sense of illness, mobilize or hinder productive responses, and impact policies in the global HIV response. These processes of making meaning and responding have played out in different ways across cultures; the course will critically explore a broad spectrum of religious, political, and public health contexts to assess the influences of religion. The readings for the course are designed to introduce the class topic and students are expected to complete assigned readings prior to class. In many instances, class time will include lecture and discussion of readings but at other times, the class sessions will function to develop ideas introduced in the readings more fully. In other words, students should not expect the class sessions merely to fully summarize assigned readings. Written assignments are designed to test not only students' knowledge of the material but also their ability to integrate that knowledge with critical reflection on both theory and public health practice.

GH 537 (1) Programming in Sexual and Reproductive Health in Humanitarian Emergencies
 SPRING. Prerequisites: There is a pre-assignment for this course. This course builds on students' knowledge of epidemiologic principles and health needs in humanitarian emergencies. It takes an applied epidemiological approach covering four essential components to sexual and reproductive health in complex humanitarian emergencies: program management, monitoring, and evaluation; policy and advocacy; and emerging issues and methods. The course will use a mix of lectures, discussions, and applied learning exercises to discuss how humanitarian conflict affects sexual and reproductive health outcomes, key guidelines and program priorities in the field, and areas of innovation and knowledge gaps.

GH 538 (1) Food and Nutrition in Humanitarian Emergencies

FALL. Malnutrition during humanitarian emergencies, including acute malnutrition and micronutrient deficiencies, is very common. This course will discuss how organizations decide when, what type, and how much food to distribute during crisis. It also will address other programs that are used to prevent malnutrition, how organizations concerned with nutrition evaluate nutritional status in individuals and populations and the various types of feeding programs that are implemented in emergency situations. The course will include practical field exercises on nutrition as well as visits by guest practitioners from the field.

GH 539 (2) Reproductive Health Program Management

FALL. This course introduces program management principles and the history, ethical dimensions, and scope of reproductive health problems, programs, and policies. Lectures and in-class case studies will examine managing and implementing programs in socially diverse settings. Students will learn contextually appropriate management skills in program development, implementation and logistics, budgeting, monitoring, evaluation and using logic models, as well as team dynamics and leadership. Students will apply learned skills in ethical reflections, case studies, and a final project.

GH 541 (2) Technology of Fertility Control

FALL. This course covers the effectiveness, benefits, WHO/CDC/ACOG guidelines for contraceptive methods and recent efforts to improve use of effective contraception in the United States. Includes historical and ethical perspectives on contraception policies, laws, and accessibility throughout the world and their impact on fertility. Includes information on long acting reversible contraception (LARC), user dependent methods, abortion, withdrawal, and male and female condoms.

GH 544 (2) Field Trials and Intervention Studies

FALL. This course will develop understanding of design, conduct, and analysis of field trials and intervention studies. The course will focus on methods relevant to community and facility-based trials in resource poor settings. However, several skills covered in this course will also be applicable to field and clinical trials in developed countries.

GH 545 (3) Nutritional Assessment

SPRING. Provides an overview of methods for assessing the nutritional status of both individuals and populations for purposes of etiologic research and disease prevention and control. Teaches the use of biochemical, anthropometric, and questionnaire methods for assessment of diet, body composition, physical activity, and biochemical characteristics. Research methods appropriate for measurement of any exposure in epidemiological or population studies are given special emphasis, including standardized data collection procedures, quality control, assessment of validity and reliability, and analytic methods to assess the effect of measurement error and to adjust for its effects when examining relations among variables. Covers methods for both acute and chronic disease.

GH 546 (3) Maternal And Child Nutrition

SPRING. Emphasizes the significance and role of nutrition during pregnancy, lactation, and childhood in developing countries. Discusses the role of programs in developed countries.

GLOBAL HEALTH

GH 548 (6) Macronutrient Nutrition

FALL. Prerequisites: One year of biology and organic chemistry and permission of instructor. The goal of the course is for students to learn the fundamental principles that underlie nutrient regulation and function and their integrative role in metabolic pathways. This course will address macronutrient requirements and how nutrient biochemical and metabolic processes are implicated in health and disease pathology as well as the potential for disease prevention or management through nutrient dependent processes. These objectives will be accomplished by lectures and discussion sessions that focus on the basic principles of nutrient requirements, cell biology, physiology and biochemistry relevant to nutrition, followed by the role of macronutrients in health and disease. Cross-listed with NHS 580.

GH 549 (6) Micronutrient Nutrition

SPRING. Prerequisites: Chemistry, undergraduate biology, and permission of instructor. Provides a graduate-level introduction to human nutrition and disease, at both the clinical and research levels, and an understanding of the experimental bases for current clinical nutritional practice. Cross-listed with IBS 581.

GH 550 (2) Epidemiology and Dynamics of STDs

FALL/SPRING. Explores the social, biologic, and public health issues of sexually transmitted diseases and their overall importance in public health. Topics include the basic biology and epidemiology of the major STDs, the implication of transmission models for prevention, and psychosocial, behavioral, and economic aspects of STD/HIV. Cross-listed with EPI 550.

GH 551 (2) Diet and Chronic Disease

FALL. Provides an overview of the epidemiology of the intersections among diet, physical activity, obesity, and chronic disease from a life course and global perspective and the potential for policy level and individual level approaches to address the key diet-related diseases of our time - cancer, cardiovascular disease, and diabetes. Discusses changes in the prevalence of diet-related chronic disease and the potential for preventive measures in both developing and developed countries.

GH 552 (2) Global Elimination of Micronutrient Malnutrition

FALL. Provides an understanding of the causes and consequences of global micronutrient malnutrition (MNM), including its complex biological, social and economic determinants. Describes policies, strategies, programs, and projects aimed at eliminating maternal and child (MNM), including evidence of efficacy and effectiveness. Defines roles and responsibilities of the public, private and non-profit sectors in implementing national programs and advocating for MNM elimination. Describes available systems for MNM monitoring and evaluation.

GH 553 (1) Vision Health: A Global and Public Health Perspective

SPRING. The purpose of the course is to provide basic knowledge of the epidemiology of the major causes of vision loss globally as well as knowledge of what can and is being done to prevent vision loss from these causes. The need for a multidisciplinary approach will be emphasized and vision loss makes a good model for other public health problems, especially non-communicable diseases. Reading from literature (available online to Emory students) will be assigned daily. Teaching methods will be a mix of didactic lectures by faculty, cases studies for discussion, and student presentations. All students will be expected to use suggested reading materials to prepare short presentations on specific topics for the class.

GH 555 (2) Proposal Development

SPRING. Over the course of the seven-week class, students will develop a grant proposal modelled after that used by the Bill and Melinda Gates Foundation. Working in small groups of peers, students iteratively prepare sections of the proposal. Enrollees in the class will learn the following skills: identifying appropriate literature; formulating aims and objectives; selecting and describing appropriate methodologies; planning field work, timelines and simple budgets; clear and concise writing; and peer review. Individual class projects can be used as the basis for seeking funding for summer applied practice experience.

GH 556 (3) Foundational Ethical Challenges in Global Health

FALL. The course aims to introduce students to the pervasiveness and complexity of ethical challenges in global health. The goal of this course is to provide students with knowledge, skills and opportunities to critically examine and address ethical challenges associated with key aspects of global health. The course aims to complement other global health and public health courses by emphasizing critical analysis of the ethical and practical implications of global health and the assumptions, conventions, and practices that dominate the field. Given the unique impact and global challenges of the COVID-19 pandemic, the course will draw on cases and current ethical controversies associated with COVID-19 to examine some of the key ideas and concepts in global health ethics. Through the assigned readings, course assignments and interactions with guest speakers, students will be challenged to develop conceptual thinking and problem-solving skills relevant to four of the main professional activities associated with practice of global health ethics: (1) providing global health organizations with diagnoses of ethical challenges that arise within their portfolios, i.e., what is the nature of the ethical challenge; what is the best way to conceptualize and understand the challenge; (2) provide advice and guidance on how to address ethical challenges in creative and practical ways; (3) expert committee and panel reviews of policies or proposals; and (4) thought partnership and deliberation with global health organizations to help them design, manage and evaluate global health projects, programs, policies and management practices to ensure they meet the highest ethical standards. Cross-listed with BIOETH 505.

GH 557 (2) Epidemiological Methods in Humanitarian Emergencies

SPRING. Prerequisites: BIOS 500, EPI 530, and GH 565. This course covers epidemiologic methods used in humanitarian emergencies such as rapid assessment, surveillance, survey design (with a focus on cluster surveys) and analysis. In addition, the class includes other topics such as outbreaks in emergencies as well as practical sessions on anthropometry and field laboratory methods. Teaching methods combine lectures and case studies of recent humanitarian emergencies.

GH 558 (2) Global Issues in Antimicrobial Resistance

SPRING. Develops tools to understand the microbiological, behavioral, and economic factors that contribute to the expanding epidemic of infectious diseases which may become untreatable due to the emergence of resistance. Provides a framework for intervention studies. Cross-listed with EPI 558.

GH 559 (3) Gender and Global Health

SPRING. This course provides an overview of theories, case studies, and social interventions related to gender and global health, with a focus on poor settings. Students are exposed to major theories in the social sciences and public health that have advanced an understanding of the institutional and ideological bases of gender inequities and of the power dynamics within couples and families that influence women's and men's health and wellbeing in these settings. The theoretical and empirical underpinnings of existing social policies and interventions intended to empower women in resource-poor countries are stressed, and case studies of the health-related consequences of these policies and interventions are discussed. By the end of the course, students will have developed the ability to evaluate critically and to identify the relationships between theory, evidence, and social interventions related to gender and health in poor settings. This course is offered on alternate spring semesters.

GH 561 (2) Applications of Public Health Economics in Low & Moderate Income Countries

FALL. Prerequisites: GH 500 or GH 501. This course is an applied course that uses economic theory and concepts to focus on critical public health issues in low and moderate income countries, particularly focusing on public goods, their use and provision. We will also apply evolving theories of behavioral economics to decisions faced by individuals and households in very resource constrained environments using examples and cases from sub-Saharan Africa, Latin America, south and central Asia where the greatest proportion of those living in absolute poverty reside.

GLOBAL HEALTH

GH 562 (1) Epidemiology of Tuberculosis

SPRING. Prerequisite: EPI 530 or EPI 504. Provides training in domestic and international public health aspects of tuberculosis, its epidemiology and diagnosis, theory and practice of treatment and means of prevention in developed and developing countries, and the interaction between HIV and tuberculosis. Cross listed with EPI 542.

GH 563 (2) AIDS: Global Public Health Implications

FALL. GH 563 is a participatory, seminar-style course designed to help learners at all levels gain familiarity with ongoing developments and debates in HIV treatment, prevention, policy and science. Topics covered in GH 563 include the history of AIDS, changing trends in global epidemiology, recent advances in HIV clinical, basic, and social sciences, and the challenges to and multidisciplinary strategies for addressing the global HIV epidemic in the next 20 years. The course examines the HIV/AIDS epidemic from both global and domestic perspectives and features guest lectures, small group discussions, written work and oral presentations. This elective course may be taken at any point in a student's program.

GH 564 (2) International Infectious Diseases

SPRING. Prerequisite: EPI 530. Offers an epidemiological, clinical and public health perspective of selected acute infectious diseases of current national and international interest. Emphasizes the agent, methods of transmission, the host, role of surveillance, and methods of control and prevention.

GH 565 (2) Health in Humanitarian Emergencies

SPRING. Prerequisites: BIOS 500 and EPI 530. The course covers the technical and management principles that are the basis of planning, implementing, and evaluating health programs for acutely displaced populations in developing countries. Emphasis is placed on refugees in camp situations. The course also includes modules on assessment, nutrition, epidemiology of major health problems, surveillance, and program management in the context of an international relief operation.

GH 566 (2) Immunization Programs and Policies

SPRING. Provides an introduction to the basic scientific epidemiologic, economic, programmatic, and political aspects of vaccines and immunization. Emphasizes immunizations in the developing world, with examples also drawn from US experience. Cross-listed with EPI 566.

GH 567 (2) Shaping a Healthy Global Food System through Policy

SPRING. Determinants of food consumption are complex but heavily influenced by policy. This course will explore the policies that influence health through their shaping of local and global food systems, including state/local, national, international, and institutional policies. Students will evaluate strategies to improve the policy landscape for nutrition and health and through case studies will gain skills in policy analysis and various styles of policy-writing. This course is offered on alternate spring semesters.

GH 568 (3) Community Engaged Food Security

SPRING. Determinants of food choices are complex but a primary determinant is access. Limited access to healthy foods at individual, household, and community level is associated with a range of health outcomes including malnutrition, depression, exposure to infectious diseases and chronic disease. This course will explore the determinants and outcomes of access to healthy foods, evaluate the effectiveness and sustainability of existing food security strategies, and conduct community-engaged research in local communities on food access issues. State, national, and international policies and their influence on food access will be explored. Community-based strategies to ameliorate food access issues will be explored. This course is offered on alternate spring semesters.

GH 569 (2) Population Dynamics, International Development, and Health

FALL. This course provides an introduction to population dynamics and international development as important contexts of public health. Participants will learn about how issues such as economic growth, environmental change, international politics, and culture interact with population forces such as fertility, aging, mortality, and migration, in ways that affect health and public health practice. The course provides an introduction to demographic methods and to basic data analysis using Stata. Training will include

lectures and structured debates, reading and discussion of published research and policies, and critical research and writing.

GH 570 (3) Community Based Participatory Action Research

FALL/SPRING. An introduction to Community-based Participatory Action Research (CBPAR), and similar research approaches ones that are community-based and community-centered, participatory in their inclusion of community members as protagonists, and action-oriented in the sense that they explicitly seek to promote change. Students will develop familiarity with a range of classical and innovative research approaches, including assets-based approaches such as appreciative inquiry and critical approaches such as autoethnography. The course will be divided roughly in half, with the first half being more instructor-guided and the second half, student-generated and led.

GH 571 (2) Vaccines and Vaccine Preventable Diseases

FALL. This course will develop in-depth understanding of epidemiological, biological, and applied aspects of commonly used vaccines and vaccine preventable diseases (VPDs) of public health importance. The course content will be structured to review specific vaccines and VPDs (rather than overarching aspects of immunization programs covered in GH 566/EPI 566). Where relevant, the course lecturers will use examples from both developed and developing countries

GH 572 (2) Community Transformation: A Five-day Experiential Workshop on Partnerships and Empowerment

FALL/SPRING. Prerequisites: A pre-assignment is required. Through participatory learning, this course introduces a process that can be used to help communities identify and reflect on their key issues and take action. Additionally, it expands the understanding of methods for community empowerment and facilitates, through group exercise and reflection, approaches to the community empowerment process.

GH 574 (2) Malaria Prevention, Control, & Treatment

SPRING. This course offers a practical introduction to the prevention, control, and treatment of malaria. Participants will understand the biology of both the malaria parasite and the mosquito vector, and how their interactions with the human host result in the epidemiology of malaria. In addition, this class will review the history of malaria control and current prevention and control activities in endemic countries, including vector control, case management, and reducing the burden of malaria in pregnancy. In addition to lectures from a number of experts from CDC there will be practical, hands-on sessions related to vector control and malaria diagnostics.

GH 577 (2) The GEMMA Seminar: The Global Elimination of Maternal Mortality from Abortion

SPRING. Students will develop skills in abortion and maternal mortality measurement using WHO and CDC criteria in populations with safe or unsafe abortions. Students will also use case studies to evaluate the influence of political and legal decisions, ethics, human rights conventions, social justice and religious approaches on abortion practice, contraception, post-abortion care, and abortion-related mortality. They will use Values Clarification and Attitudes Transformation (VCAT) techniques to clarify and inform their own values on abortion. They will learn to describe the impact of terminology and values on national and international abortion debates, describe/learn about clinical abortion services and treatment for unsafe abortion, develop grant proposals to support program activities that prevent abortion mortality, and develop well-articulated arguments to advocate for the global elimination of maternal mortality from abortion.

GH 578 (1) Mental Health in Humanitarian Emergencies

SPRING. Prerequisites: GH 557 and 565. This course covers essential principles necessary to understand and address mental health issues in humanitarian emergencies. Using epidemiological and ethnographic approaches, the course will highlight mental health surveys; outcome evaluation methods; best practices and evidence-based interventions for beneficiary populations; and preparation and training for emergency responders and aid workers. Two-day intensive course.

GLOBAL HEALTH

GH 579 (3) Chronic Disease Control and Prevention

SPRING. This course introduces students to global and local issues in chronic non-communicable disease (NCD) prevention and control. NCDs are the leading cause of death and disability worldwide. In addition to their considerable health impact, NCDs pose a critical threat to development. Their complex etiology requires interdisciplinary and multi-sectoral approaches to prevention and control. The course highlights the burden and etiology of major NCDs, addresses approaches for surveillance of outcomes and risk factors, and lays out a comprehensive framework for prevention and control. The framework covers primary, secondary and tertiary prevention; population-level and individual-level approaches to delivering interventions; and major principles and strategies necessary for effective prevention including evidence-based interventions, life-course perspective, health systems strengthening, whole-of government and multi-sectoral action, among others.

GH 580 (2) Control of Food and Waterborne Diseases

SPRING. Introduces the major disease-causing microorganisms in the environment and their transmission through water, food, and air. Describes the organisms, pathogenesis, clinical diseases, reservoirs, modes of transmission, and epidemiology and surveillance systems. Discusses the transport, survival, and fate of pathogens in the environment, the concept of indicator organisms as surrogates for pathogens, and the removal and inactivation of pathogens and indicators by water and wastewater treatment processes. Presents examples of the public health impact of foodborne and waterborne diseases in developing countries.

GH 581 (1) Risk Communication and Community Engagement in Humanitarian Emergencies

FALL. The objective of the course is to encourage and facilitate improved risk communication and community engagement (RCCE) during public health emergencies among public health authorities and partner organizations through the building of RCCE core capacities.

GH 582 (2) Global Climate Change: Health Impacts and Response

FALL. This course will explore the public health impacts of global climate change, the responses undertaken by the health sector to become more resilient to those impacts, and potential mitigation efforts and activities. Public health responses will cover examples from around the world, and include issues around risk communication and implementation of the adaptation strategies. The course will provide a practical approach to conducting vulnerability and risk assessments, and students will be introduced to a range of skills to assess and respond to climate-related health impacts. Cross-listed with EH 582.

GH 583 (2) Introduction to Global Mental Health

FALL. This course focuses on the history and current state of global mental health. The goal of this course will be to explore global influences and cultural variances of mental health. We will explore these effects on incidence and prevalence, early identification and intervention, access to care, and measurement and evaluation. Social determinants of mental health and mental illness will be reviewed with emphasis on low and middle-income countries (LMICs). This course will also focus on closing gaps to mental health care globally, with specific focus on promising practices for mental health promotion and illness prevention, and the adaptation and application of psychological treatments in LMICs.

GH 584 (3) Evidence-Based Decision Making with Principal Focus on Immunization, Infectious, and Chronic Diseases

SPRING. This course is designed to provide an overview of these processes and related deliberative bodies to help future public health professionals understand how their research and practice are used in evidence-based decision making.

GH 585 (3) Gender-Based Violence in Global Perspective

SPRING. This course provides an overview of theories, case studies, and interventions related to gender-based violence, with a focus on lower-income settings and populations. Students are exposed to major theories that have advanced an understanding of the multilevel, social-ecological determinants of GBV, and the implications of GBV for adverse health outcomes across the life course, with a focus on

sexual and reproductive health. Issues regarding GBV in highly vulnerable populations (including for example conflict-affected, adolescent, LGBTQ populations) are discussed to gain an understanding of GBV as gender justice and social justice issue, more broadly. Promising interventions for the primary and secondary prevention of GBV victimization and perpetration are emphasized with a focus on evidence based on rigorous impact evaluations. Ethical issues in conducting research on GBV are thoroughly addressed, enabling students to conduct their own research following international ethical guidelines. Legal frameworks and grass-roots social movements also are discussed. By the end of the course, students will have developed the ability to evaluate critically and to identify the relationships between theory, evidence, and practice related to gender-based violence in lower-income settings. This course is offered on alternate spring semesters.

GH 586 (3) Community Health Assessment

FALL. Pre-requisites: GH521 or equivalent. Also open to learners with prior qualitative research experience at instructor's discretion. The purpose of this methodology course is to provide learners with theoretical background, technical and critical thinking skills, and practical experience to conduct a health-related community assessment in a "Glocal" context and through a community engaged and asset-based process. The Community Health Assessment (CHA) is a vital planning tool to identify priority health assets, capacities and needs, target resources to address health inequalities and meaningfully involve stakeholders at the level of families, communities and/or populations in the assessment process. During the course of the semester learners will work intensively in small groups to produce a CHA using a rapid methodology. Class time is divided between lecture and lab time.

GH 587 (1) Preparedness in Humanitarian Emergencies

FALL. This course covers the essential principles of emergency preparedness and planning in the international context. Students will become familiar with concepts of the Sphere standards, cluster system, Incident Command System (ICS), emergency operation plan development, and tabletop exercises. The common pitfalls and challenges of emergency preparedness and planning will be discussed. Students will have the opportunity to review an existing plan and tabletop exercise and provide input for their improvement. Two-day intensive course.

GH 588 (2) Religion & Health: Sexual & Reproductive Health

FALL. This course will offer a sustained critical analysis of the complicated relationship between religion and sexuality, particularly in relation to issues of central concern to sexual and reproductive health. In the course, students will examine the teachings of various religious traditions (with a focus on Christianity and Islam) on sexuality from global perspectives, place those teachings in historical contexts, critically assess the impact of those teachings in the context of sexual and reproductive health initiatives in both national and international contexts, and work to align religion and sexual and reproductive health initiatives through group projects, debates, and case studies.

GH 589 (3) Global Health Program Management

FALL. Prerequisites: Second year global health students only. This course is specifically designed for those who will be working in developing countries and/or countries in economic and political transition-working in the public sector, the non-governmental sector, the community or international organizations. In this course, we focus on two primary resources in any organization or program people and money-and the processes leading to high performance and quality. While derived from management theory and practice, the focus of this course is less on theory and more on application. This course focused on increasing your ability to analyze, explain and diagnose managerial and organizational dilemmas and generate solutions that are feasible. This will be done primarily through cases, group discussions and exercises. Lectures will provide background and theory. *Course will not be offered after Fall 2023.*

GH 595 (0) Applied Practice Experience

FALL/SPRING/SUMMER. An Applied Practice Experience (APE) is a unique opportunity that enables students to apply practical skills and knowledge learned through coursework to a professional public health setting that complements the student's interests and career goals. The APE

GLOBAL HEALTH

must be supervised by a Field Supervisor and requires approval from an APE Advisor designated by the student's academic department at RSPH.

GH 595H (12) Humphrey Fellow Practicum

FALL/SPRING. The Humphrey Seminar is a major component of the Humphrey program on campus and serves as an introduction to many aspects of the U.S. culture and professional environment. The Seminar will include topics related to the program's goals and the Fellows' professional fields, allowing Fellows the opportunity to present and share information regarding their plans, work in their home country, and their professional activities.

GH 596 (3) Maternal Child Health

SPRING. This is the foundational course for the Maternal and Child Health Certificate. It covers historical and theoretical underpinnings of maternal and child health problems and programs aimed to reduce morbidity, mortality, and health disparities. Skills in program planning and evaluation are taught through multidisciplinary teams working with academic and field-based faculty in local, state, federal, and nongovernmental agencies. Maternal and child health is defined as a field of public health that addresses underlying forces for these problems, the historical framework for ameliorating those problems, and current programs and policies that have evolved from that historical context. Maternal and child health programs are unique to reproduction and life course development; more common in women, infants, children, or adolescents; more serious in women, infants, children, or adolescents; or have manifestations, risk factors, or interventions that are different in women or during life course development.

GH 596L (1) MCH Foundations Lab

SPRING. Students enrolled in the MCH certificate only. The group laboratory sessions utilize a multi-disciplinary team approach supervised weekly by a combination of course faculty, field-based faculty, and a teaching assistant. The laboratory reinforces MCH concepts through practical application in program planning and evaluation in local, state, federal, and nongovernmental agencies. Maternal and child health programs are unique to reproduction and life course development; more common in women, infants, children, or adolescents; more serious in women, infants, children, or adolescents; or have manifestations, risk factors, or interventions that are different in women or during life course development.

GH 597R (3) Directed Study

FALL/SPRING/SUMMER. A completed and RSPH department approved directed study form is required prior to enrollment. Provides the opportunity to pursue a specialized course of study in an area of special interest. Complements rather than replaces or substitutes for course work.

GH 598 (4) Capstone

SPRING. Prerequisites: GH501, GH502, GH511, GH512, GH521, GH531 and GH522 or GH 532 (some may be taken concurrently). The Capstone provides an opportunity for students to demonstrate skills acquired in prior coursework. Each capstone section will differ in content, based on instructor expertise, but all will require integration of deliverables from the HDGH Foundational, Program Cycle, and Quantitative and Qualitative sequences. At the end of the capstone course, each student will submit an individual deliverable in response to a global health challenge or opportunity. The deliverable may describe a program implementation plan or a formative research plan that will inform a future project, program or policy. All Capstone sections share the same underlying structure, of 10-15 students working closely with the instructor. *This option is not available for 3 semester accelerated students this 2023-2024 academic year.*

GH 599R (4) Thesis

FALL/SPRING/SUMMER. All traditional students in the HDGH have the option to complete a thesis project in order to fulfill the requirements of the MPH degree. Currently, all Accelerated students must complete a thesis project. This project is a rigorous academic requirement; as the culmination of the MPH experience, it is an independent, theory-based inquiry in which the student

applies knowledge and skills acquired during the MPH program to the scholarly study of a public health problem. In HDGH, the thesis project may take the form of either a Special Studies Project (e.g. a deliverable for an organization) or a Research Project (e.g. systematic review, analysis of primary or secondary data) using quantitative, qualitative or other methodologies and presented in a traditional style or manuscript style.



Executive Master of Public Health

www.sph.emory.edu/emph

Melissa (Moose) Alperin, Assistant Professor of Practice and Director

The Executive Master of Public Health (EMPH) is a distance-based master of public health program designed to meet the needs of public health professionals and other professionals with a strong interest in the field. The 42 credit-hour program allows working professionals with at least three years of professional experience to remain employed while pursuing an advanced degree that will enable them to remain competitive and meet the challenges of public health in the future.

The master of public health (MPH) degree can be earned in two years (6 semesters) or three years (9 semesters). The EMPH program requires students to attend synchronous sessions for three days at the beginning and end of each semester for a total of 6 days per semester. All other coursework is delivered asynchronously through a web-based course management system. Courses are highly interactive and work is often collaborative.

Students are required to take a number of core courses designed to address the core competencies of public health practice. Core courses include biostatistics, epidemiology, health policy, social behavior, environmental health, and global health. Students also complete an applied practice experience (internship) and an Integrative Learning Experience (thesis or capstone depending on the track). In addition to the core requirements, students choose one of two specialty areas or tracks: Applied Epidemiology or Prevention Science.

Admission Requirements

Students may enter the EMPH program from a variety of professional backgrounds, but must have a minimum of three years of professional public health or related experience. Admission is based on appropriate experience, prior academic performance in postsecondary education, and a commitment to working in public health. New students are admitted in the fall semester.

Core Requirements

Course	Course Title	Credit Hours
PUBH 500	Introduction to Public Health	0
PUBH 501D	Inter-professional Education & Training	0
BIOS 503D*	Introduction to Biostatistics	2
or BIOS 516D	Applied Biostatistics I	2
BSHES 504D	Social Behavior in Public Health	2
EH 500D	Perspectives in Environmental Health	2
EPI 504D**	Fundamentals of Epidemiology	2
or AEPI 530D	Applied Epidemiology I	3
GH 500D	Addressing Key Issues in Global Health	2
HPM 500D	Introduction to the US Health Care System	2

*Applied Epidemiology students take BIOS 516D (versus BIOS 503D)

**Applied Epidemiology students take AEPI 530D (versus EPI 504D)

Applied Practice Experience (APE)

APE is a unique opportunity for EMPH students to integrate and apply practical skills and training learned through coursework and prior experiences in a professional public health work environment. APE is a significant educational experience that generally requires 200 hours in a public health agency, institution, or community under the supervision of site administrators and the guidance of the EMPH program and the Office of Career Development.

Course Number	Course Title	Credit Hours
PRS 595R	Applied Practice Experience	2

Integrative Learning Experience

As the culmination of their educational experience, students work with a faculty adviser to design a culminating Integrative Learning Experience that demonstrates the student's mastery of a public health discipline that is relevant to his or her short- and long- term career objectives. Students in the Applied Epidemiology track complete a research thesis. Students in the Prevention Science track select between completing a thesis or a series of two capstone courses.

Course Number	Course Title	Credit Hours
<i>Applied Epidemiology</i>		
AEPI 599R	Thesis-Applied Epidemiology	4
<i>Prevention Science</i>		
PRS 561D	Public Health Advocacy Capstone	2
PRS 562D	Program Planning Capstone	2
or PRS 599R	Thesis-Prevention Science	4

Areas of Concentration

Applied Epidemiology Track

The Applied Epidemiology track is geared to meeting the needs of the student who anticipates working as an epidemiologist in a practice-based setting such as clinical research settings, pharmaceutical or other health care industry companies, international agencies, and foundations where epidemiologists are employed. In addition to core courses, Applied Epidemiology students take the following courses:

Course Number	Course Title	Credit Hours
PUBH 502D	Public Health Professional Development Seminar	0
AEPI 515D	Introduction to Public Health Surveillance	2
AEPI 530D	Applied Epidemiology I	3
AEPI 534D	Applied Epidemiology II	3
AEPI 536D	Epidemiological Modeling	3
AEPI 537D	SAS Programming	2
AEPI 538D	Applied Data Analysis	2
AEPI 550D	Topics in Applied Epidemiology	2
AEPI 565D	Advanced Modeling	3
AEPI 599R	Thesis – Applied Epidemiology	4
APHI 501D	Applied Public Health Informatics	2
BIOS 516D	Applied Biostatistics I	2
BIOS 517D	Applied Biostatistics II	2
BIOS 518D	Applied Biostatistics III	2
PRS 502D	Thesis Seminar	0

Prevention Science Track

The Prevention Science track provides the EMPH student with the foundations of behavioral theories, program planning, research design, evaluation, and health communication through traditional and emerging technologies. Students will acquire the skills necessary to plan, implement, and evaluate community programs, and to communicate health and behavioral information.

The Prevention Science curriculum prepares students in the essential public health services and competencies. The courses place a strong emphasis on application of prevention science knowledge, behavioral theories, and models to real-life public health situations and settings. In addition to core courses, Prevention Science students take the following courses:

EXECUTIVE MASTER OF PUBLIC HEALTH

Course Number	Course Title	Credit Hours
AEPI 515D	Introduction to Public Health Surveillance	2
APHI 501D	Applied Public Health Informatics	2
PRS 505D	Integrated Communication Strategies	2
PRS 530D	Quantitative Analysis	2
or PRS 533D	Qualitative Analysis and Mixed Methods	2
PRS 532D	Qualitative Research Methods	2
PRS 535D	Questionnaire Design and Analysis	2
PRS 538D	Community Needs Assessment	3
or PRS 540D	Conduct of Evaluation Research	3
PRS 542D	Curriculum Development for the PH Workforce	3
PRS 575D	Planning and Performance Measures for Nonprofits and Other Local Agencies	3
PRS 580D	Research Design and Grant Preparation	3
PRS 561D	Public Health Advocacy Capstone	2
and PRS 562D	Program Planning Capstone	2
or PRS 599R	Thesis – Prevention Science	4

For thesis students only

PRS 502D	Thesis Seminar	0
-----------------	----------------	---

Executive Master of Public Health Faculty and Instructors

Melissa (Moose) Alperin, Assistant Professor of Practice and Director of Executive MPH Program. AB, Brown University, 1988; MPH, Emory University, 1991; EdD, University of Georgia, 2015. Public health workforce development, competency-based instruction, distance education and online instruction, scholarship of teaching and learning.

Greg Anderson, Adjunct Professor. BS, University of Tennessee, 1995; MS, University of Tennessee, 1998; MPH, Emory University, 2004. Infectious disease surveillance, resource allocation, quality improvement methodologies, bioterrorism preparedness and response, and molecular genetics of antimicrobial resistance.

Grant T. Baldwin, Adjunct Professor. BA, University of Michigan, 1994; MPH, Emory University, 1996; PhD, University of Michigan, 2003. Unintentional injury prevention, application of behavioral and social science theory, community-based participatory research, community needs assessment, behavioral and social science research methods.

Donna Beal, Adjunct Professor. BA, University of California Santa Barbara, 1994. MPH, Tulane University, 1998. Community mobilization, program implementation and design.

Gwen Biggerstaff, Adjunct Professor. BS, The University of Georgia, 2000; MSPH, Emory University, 2005; ScD, Tulane University, 2017. Public Health Services and Systems Research (PHSSR); mixed methods research; quality improvement in public health practice; performance measurement; foodborne, waterborne, and enteric diseases.

Jose Binongo, Teaching Associate Professor. BS, Ateneo de Manila University, 1984; MS, Sophia University, 1990; MEd, University of Virginia, 2004; PhD, University of Ulster (UK), 2000. Collaborative biostatistics, statistics education.

Linelle Blais, Associate Professor of Practice and Associate Director (Prevention Science track). BA, Rhode Island College, 1986; PhD, University of Rhode Island, 1993. Individual and organizational change, program development and evaluation, and translation of science to practice.

Dewey A. Blaylock, Adjunct Professor. BS, University of West Florida, 1978; MS, University of West Florida, 1980. Laboratory information management systems, public health information security, healthcare information flow modeling.

Lisa M. Carlson, Adjunct Professor. Master Certified Health Education Specialist. BA, Yale University, 1992; MPH, Emory University, 1993. Ethics, qualitative methods, research administration, collaboration.

W. Michael Caudle, Research Associate Professor. BS, Colorado State University, 1998; PhD, Emory University, 2007. Neurotoxicology.

- Kelley G. Chester**, Adjunct Professor. BBA, Georgia Southern University, 1993; MPH, Georgia Southern University, 2007; DrPH, Georgia Southern University, 2010. Biostatistics, user-centered design, collaborative design and reengineering of business processes in public health, electronic health records, meaningful use, public health informatics training for professionals in the field.
- Cari Jo Clark**, Associate Professor. BA, University of Kansas, 1996; MPH, Yale School of Public Health, 1999; ScD, Harvard School of Public Health, 2005. Health effects of exposure to child maltreatment, intimate partner violence, and the design and evaluation of violence prevention strategies in low- and middle-income countries.
- KC Decker**, Adjunct Professor. BA, Auburn University, 2001; MS, Georgia Institute of Technology, 2002; Applied Scientist in Engineering Management, George Washington University, 2009. Public health informatics, data science, analytics, emergency management, policy and evaluation.
- Johnathan Alex Edwards**, Instructor. BS, Emory University, 2015; MSPH, Emory University, 2017. Biostatistics, data science, spatial analysis/GIS.
- Laurie Gaydos**, Teaching Associate Professor and Deputy Director of Executive MPH Program. BA, Brown University, 1998; PhD, University of North Carolina at Chapel Hill, 2004. Public policy, women's health, reproductive health, maternal/child health, mixed-methods research methods, program evaluation, and research design.
- Frederic J. Grant**, Adjunct Professor. BS, Ohio State University, 1975; MBA, Georgia State University, 1980; PhD, Capella University of Minnesota, 2006; MPH, Emory University, 2011. Public health informatics, applied research methodologies, health system strategic planning and development, emergency preparedness, modeling and simulation.
- Jeremy Alexander Grey**, Adjunct Professor. BA, The College of New Jersey, 2006; PhD, University of Minnesota, 2013. HIV prevention, infectious disease modeling, health disparities.
- Johanna M. Hinman**, Adjunct Professor. Master Certified Health Education Specialist. BA, Carleton College, 1992; MPH, Emory University, 1998. Health education and health promotion, program planning, community-based participatory research, community engagement and partnerships.
- Cynthia Jorgensen**, Adjunct Professor. BA, Boston University, 1981; MA, Boston University, 1982; DrPH, University of North Carolina at Chapel Hill, 1988. Application of theory in behavior change strategies, health and risk communication, formative research, multi-media campaigns, social media, cross cultural communication, program planning and evaluation.
- Vijaya Kancherla**, Research Assistant Professor and Associate Director (Applied Epidemiology track). BHMS, University of Health Sciences, 2000; MS, Southern Illinois University, 2004; PhD, University of Iowa, 2010. Epidemiology and surveillance of birth defects.
- Wesley Kennemore**, Adjunct Professor. BA, University of Alabama, 1987; MS, Saint Mary's University, 1997; MD, Windsor University School of Medicine, 2011. Public health informatics, public health laboratories.
- Juan Leon**, Associate Professor and Thesis Advisor. BA, Dartmouth College, 1996; MPH/ PhD, Northwestern University, 2003. Community-based research, global health, infectious disease, MCH, public health practice, rural health, safe water and sanitation, vaccines, disease pathogenesis, environmental health.
- P. S. Loosier**, Adjunct Professor. BS, University of Alabama at Birmingham, 2001; MPH, 2004; PhD 2011. Sexually transmitted diseases, sexual minority health, adolescent and youth health.
- Nicole Luisi**, Adjunct Associate Professor. BA, Moravian College, 2003; MPH, East Stroudsburg University, 2005; MS, University of Massachusetts Amherst, 2014. HIV/AIDS prevention, behavior and health, longitudinal study design, web-based surveys, data collection and management.
- A. D. McNaghten**, Adjunct Professor. BS, Ohio University, 1988; MHSA, 1990; PhD, 1994. Disease surveillance, global health, HIV/AIDS, infectious disease.
- Emmanuel Foundje Njeuhmeli**, Adjunct Professor. MD, University Yaounde I, Cameroon, 1998. MPH, Johns Hopkins University, 2007. MBA, Johns Hopkins University, 2008. Biostatistics, Modeling, Epidemiology, Program Evaluation, Quality Assurance/Quality Improvement, HIV Prevention, Care and Treatment.
- Rita Noonan**, Adjunct Professor. BS, University of Connecticut, 1986; MA, University of

EXECUTIVE MASTER OF PUBLIC HEALTH

Connecticut, 1989; PhD, Indiana University, 1998. Injury and violence prevention, evaluation, and translation research.

Jean O'Connor, Adjunct Professor. BS, Emory University, 1998; MPH, Emory University, 2001; JD, Emory University, 2001; DrPH, University of North Carolina at Chapel Hill, 2009. Public health law, tobacco and other drugs, obesity, health care access, policy development and evaluation, public health advocacy.

William S. Pearson, Adjunct Professor. BS, Bob Jones University, 1994; MHA, Medical University of South Carolina, 1999; PhD, University of South Carolina, 2004. Delivery systems for primary care and the management of chronic disease.

Minda D. Reed, Adjunct Associate Professor. BS, Duke University, 2002; MD, Ross University School of Medicine, 2010; MPH, Rollins School of Public Health-Emory University, 2016. Program Evaluation, evaluation capacity-building, culturally responsive evaluation, overdose prevention, implementation science, health equity.

Helen Robinson, Adjunct Faculty. BA, Davidson College; MPA, Indiana University Bloomington, 2005. Nonprofit management, public health systems and policy change, coalition building, and strategic planning.

Daniel Rutz, Adjunct Professor. BS, University of Wisconsin, Platteville, 1971; MPH, Emory University, 2001. Health medical and public health emergency risk communication, planning, and response; global domestic violence and HIV/AIDS prevention strategies; building journalist competencies in public health and medical reporting, especially in developing countries.

Iris Smith, Professor Emeritus. BA, Fordham University, 1971; MPH, Emory University, 1979; PhD, Georgia State University, 2000. Substance abuse, program evaluation, behavioral research.

Elizabeth A. Sprouse, Adjunct Associate Professor. ABJ, The University of Georgia, 2000; MPH, Emory University, 2018. Clinical and public health informatics with emphasis on program development, project management, strategic planning, communications and technology training.

Patrick Sullivan, Charles Howard Candler Distinguished Professor of Epidemiology. BS, Emory University, 1988; DVM, University of Tennessee, 1992; PhD, University of Tennessee, 1994. Infectious disease, surveillance, animal models for infectious diseases, zoonotic diseases, HIV vaccine development.

Rebecca Upton, Adjunct Professor. AB, Colgate University, 1992; AM, Brown University, 1994; PhD, Brown University, 1999; MPH, Emory University, 2014. Qualitative and mixed methods, gender and reproductive health, fertility studies, HIV/AIDS, global public health, family and migration studies.

Andrew Voetsch, Adjunct Assistant Professor. BA, Emory University, 1993; MPH, Emory University, 1995; PhD, University of North Carolina at Chapel Hill, 2005. Adolescent health/child health, disease surveillance, global health, HIV/AIDS, infectious disease.



Executive Master of Public Health Course Descriptions

AEPI 515D (2) Introduction to Public Health Surveillance

FALL. Pre-Requisites: AEPI 530D or AEPI 540D as prerequisite or by special permission to enroll. People who manage disease, injury, or disability prevention and control programs have an ongoing need for reliable information about the status of these health problems among the populations they serve. The process that public health agencies use to collect, manage, analyze, interpret, and disseminate this information is called surveillance. This course aims to provide the mid-career learner with the tools needed to design and manage a surveillance system and to be a critical and informed user of surveillance data.

AEPI 530D (3) Applied Epidemiology I

FALL. Pre-Requisites: PRS 500D as prerequisite or by special permission to enroll. This class will provide an introduction to the principles of epidemiology, including 1) the use of descriptive measures to describe the health of populations or groups of people, 2) approaches to assessing potential associations between personal characteristics, behaviors, or exposures and the occurrence of disease or other adverse health outcomes, 3) the basics of study design, including case-control studies and cohort studies and attendant approaches to defining case or exposure status.

AEPI 534D (3) Applied Epidemiology II

SPRING. Pre-Requisites: AEPI 530D and BIOS 516D as prerequisites or by special permission to enroll. Continuing from Applied Epidemiology I, further insight into confounding is explored as well as effect modification. Methods of hypothesis formulation and analysis of 2x2 tables (point estimation and confidence levels) are described in detail as well as sample size calculations. Different approaches to control for extraneous variables in the design of studies are presented, such as randomization, matching, and restriction. The use of stratification for assessing effect modification and confounding is provided followed by an introduction to mathematical modeling. Different issues in the use of matching in case-control studies are presented. Statistical packages such as SAS and OpenEpi are used.

AEPI 536D (3) Epidemiological Modeling

SUMMER. Pre-Requisites: AEPI 530D, AEPI 534D, BIOS 516D, BIOS 517D as prerequisites or by special permission to enroll. Methods for analyzing multivariable data in order to evaluate epidemiological research relationships between exposure and disease variables. Includes logistic regression (conditional and unconditional), risk ratio regression, risk difference regression, and survival analysis.

AEPI 537D (2) Introduction to SAS Programming

FALL. Pre-Requisites: BIOS 516D and AEPI 530D as prerequisites or by special permission to enroll. This course is an introduction to the SAS programming environment. This is an applied computer course that instructs students in the techniques needed to enter data into a database and properly read and process data into a final dataset that is ready for epidemiologic analysis.

AEPI 538D (2) Applied Data Analysis

FALL. Pre-Requisites: AEPI 530D, AEPI 534D, AEPI 536D, AEPI 537D, BIOS 516D, BIOS 517D, BIOS 518D as prerequisites or special permission. The purpose of this course is to prepare the student for actual analysis of epidemiologic data from case-control or cohort studies. It demonstrates, and gives the student an opportunity to explore, the methods taught in the epidemiology methods sequence. The student will develop a hypothesis and test it using an epidemiologic database with stratified analysis and logistic regression techniques. The student also will use conditional logistic regression. It is expected that this course will help prepare Executive MPH students for analyzing their thesis data.

EXECUTIVE MASTER OF PUBLIC HEALTH

AEPI 550D (2) Topics in Applied Epidemiology

SUMMER. Pre-Requisites: AEPI 530D, AEPI 534D, AEPI 536D, BIOS 516D, BIOS 517D as prerequisites or special permission. This course will provide a survey of topics in applied epidemiology, including chronic disease, infectious disease, and maternal and child health. This course builds on students' foundation in epidemiologic methods and concepts and introduces them to selected public health issues. This course introduces students to the epidemiologic and research challenges and current and future public health action across a variety of applied epidemiological issues, including chronic disease, infectious disease and maternal and child health. Research design and analysis are not the primary focus of the course, but methodological issues are considered when pertinent to the interpretation of findings.

AEPI 565D (3) Advanced Modeling

SPRING. Pre-Requisites: AEPI 530D, AEPI 534D, AEPI 536D, BIOS 516D, BIOS 517D, BIOS 518D as prerequisites or special permission. Advanced Modeling will cover multivariate methods for analyzing epidemiologic data that involve examining associations between exposures and outcomes for which the outcome data are the time to an event, event rates, or a count of events. The course covers survival analysis and Poisson regression.

AEPI 597D (3) Applied EPI Directed Study

FALL/SPRING/SUMMER. Provides the opportunity to pursue a specialized course of study in an area of special interest.

AEPI 599R (4) Thesis

FALL/SPRING/SUMMER. Pre-Requisites: AEPI 530D, AEPI 534D, AEPI 536D, BIOS 516D, BIOS 517D, BIOS 518D, PRS 502D as prerequisites or special permission. Provides an opportunity to integrate the content and skills learned in the academic setting through participation in scholarly research or other culminating project.

APHI 501D (2) Applied Public Health Informatics

FALL. Pre-Requisites: PRS 500D as prerequisite or special permission required to enroll. This course introduces the mid-career learner to the emerging field of public health informatics through an overview of public health informatics areas of focus, information management techniques, and key information technology principles. The course enables participants to apply the technologies and methodologies available to improve the use and management of information for problem solving and decision making. Topics include types of data resources available, evaluating data in its context, and ways that the data may be used to affect outcomes. The course is designed for public health professionals and assumes no background in information technologists or public health informatics. [Applied Public Health Informatics students take APhi 520D instead of APhi 501D.]

BIOS 503D (2) Introduction to Biostatistics

FALL. Pre-Requisites: PRS 500D as prerequisite or special permission required to enroll. This course presents basic concepts and data analytic methods with an emphasis on interpretation of common statistical results. Topics covered include summary statistics; probability concepts; confidence intervals; hypothesis testing for means, proportions, and difference between means and proportions; contingency tables (including relative risk and odds ratio); and simple linear regression and correlation. Students will use Microsoft Excel for elementary statistical analyses. [Applied Epidemiology students and Applied Public Health Informatics students take BIOS 516D instead of BIOS 503D.]

BIOS 516D (2) Applied Biostatistics I

FALL. Pre-Requisites: PRS 500D as prerequisite or special permission required to enroll. This course covers fundamental concepts and methods used in data analysis. These include techniques in graphical and numerical descriptive statistics, elementary probability calculation using the normal distribution, point and confidence interval estimation and hypothesis testing for population means and proportions, differences between means and between proportions, and contingency

table analyses (including risk ratio and odds ratio). Students will use SAS to perform the statistical analysis. Requirements include weekly homework, weekly quizzes, Midterm and Final Exams, and data analysis project.

BIOS 517D (2) Applied Biostatistics II

SPRING. Pre-Requisites: BIOS 516D as prerequisite or special permission required to enroll. BIOS 517D is the follow-up course to BIOS 516D. BIOS 516D ended with procedures for two independent samples (two sample t-test and chi-square test). Students then begin their study of linear regression, starting with one-predictor models and then moving on to multiple-predictor models. In addition, the course will cover ANOVA, ANCOVA, and non-independent hypothesis testing for paired and time-varying data.

BIOS 518D (2) Applied Biostatistics III

SUMMER. Pre-Requisites: BIOS 516D, BIOS 517D as prerequisites or special permission required to enroll. BIOS 518D is the follow-up to BIOS 517D. This course starts with ANOVA and ANACOVA and post-ANOVA multiple comparison procedures for cross-sectional data. It then introduces students to longitudinal data analysis. As in previous courses, students first learn to create descriptive and graphical summaries appropriate to longitudinal data prior to conducting formal inference. Students are introduced to multilevel models and extend the methods to more complex analytic situations that involve curvilinear and discontinuous growth trajectories and complex risk profiles, the inclusion of time-varying covariates, and the testing of complex interactions among time-invariant and time-varying predictors.

BSHES 504D (2) Social Behavior In Public Health

SUMMER. Pre-Requisites: PRS 500D as prerequisite or special permission required to enroll. The purpose of this course is to describe how behavioral and social science theories, research methods, and practice models can be used to understand and intervene upon public health problems. The social ecological model provides the conceptual framework for the course with an emphasis on the importance of primary prevention. Students will gain an understanding of how factors at the individual, intrapersonal, community and public policy levels interact to influence health over the life course. The course introduces theories at each of these levels and how to use these theories to inform intervention design. It includes a review of risk factors for the leading causes of morbidity and mortality and a detailed discussion of how social and economic inequalities and other factors influence health (e.g., social class, culture, race/ethnicity, and gender). The course concludes with a discussion of translating knowledge to action and bringing evidence-based interventions to scale.

EH 500D (2) Perspectives in Environmental Health

SUMMER. Pre-Requisites: PRS 500D as prerequisite or special permission required to enroll. EH 500 is a survey course designed to introduce public health students to basic concepts of environmental sciences, to the methods used to study the interface of health and the environment, to the health impacts of various environmental processes and exposures, and to the public health approach to controlling or eliminating environmental health risks.

EPI 504D (2) Fundamentals of Epidemiology

SPRING. Pre-Requisites: PRS 500D as prerequisite or special permission required to enroll. Epidemiology 504D is an introductory epidemiology course covering the underlying concepts and methods of epidemiology and the applications of epidemiology to public health. Topics covered in the course include: study design (clinical trials, cohort studies, case-control studies, and cross-sectional studies), measures of disease occurrence and association, bias, confounding, interaction, and analysis of two-by-two tables. [Applied Epidemiology students take AEPI 530D instead of EPI 504D.]

GH 500D (2) Addressing Key Issues in Global Health

SPRING/SUMMER. Pre-Requisites: PRS 500D as prerequisite or special permission required to enroll. The goal of the course is to equip students with critical perspectives to address current and future global health challenges and opportunities as public health professionals and global citizens in this increasingly interdependent world. The course explores historical milestones, actors, assumptions, context and theories driving selected global health priorities in policy, programs and research. To do this, the course

EXECUTIVE MASTER OF PUBLIC HEALTH

will enhance the skills of critical thinking, assessment of evidence from multiple perspectives and application of evidence in formulation of policies, programs and research priorities. A recurring theme throughout the course is that there are common global drivers influencing the health of populations in high, middle and low-income countries and cross-cutting issues such as inequality that transcend settings.

HPM 500D (2) Introduction to the US Health Care System

FALL. Pre-Requisites: PRS 500D as prerequisite or special permission required to enroll. This course provides an introduction/overview to the various components of the U.S. healthcare system. It examines the multiple determinants of health (focusing on the role that medical care plays), private and public financing mechanisms for medical care, various healthcare providers, and the effects of both market competition and government regulation. One objective of the course is for students to gain institutional knowledge of the U.S. healthcare system that is relevant to both healthcare managers and policy analysts. A second objective of the course is for students to learn to critically examine the tradeoffs associated with various health policies. These tradeoffs fundamentally result from a lack of resources to fund all desired medical care. As such, we will examine how collective interests shape the design of health policies.

PRS 500D (0) Strategies and Resources for Online Learning

FALL. Strategies and Resources for Online Learning is a requirement for all new students in the Executive MPH program. This Online Orientation is the first introduction for students to Executive MPH courses and the Canvas Learning platform. This course will orient students to the design and structure of Executive MPH courses, provide instruction on course navigation and use of Canvas Tools, and simulate activities that you will participate regularly in your academic courses. The assignments throughout the course will help you prepare for your first semester. Students are required to participate in the course and complete the assignments as scheduled. [This 10-14 day course is taken prior to enrollment in the first fall semester.]

PRS 502D (0) EMPH Thesis Seminar

SUMMER. Pre-Requisites: Vary by program track. Prerequisites for AEPI Students: AEPI 530D, AEPI 534D, AEPI 536D, AEPI 538D, BIOS 516D, BIOS 517D, BIOS 518D, or by special permission to enroll. Prerequisites for PRS Students: PRS 505D, PRS 535D, PRS 542D, as prerequisites or by special permission to enroll. This self-paced seminar is intended to provide an overview and expectations of the thesis process for Executive MPH students at Emory. This course is required for all AEPI students and PRS students who select the thesis option for the integrative learning experience. The seminar will include an introduction to thesis concepts including identifying a topic, literature review, IRB, identifying and managing a committee (chair and field advisor), and developing a timeline. Upon completion of the 6-week self-paced version of the course, students will be expected to participate remotely in two 90-minute boot camp sessions focused on thesis topic development and completion of their draft Thesis Proposal Form

PRS 505D (2) Integrated Communication Strategies

FALL. Pre-Requisites: BSHES 504D as prerequisite or special permission required to enroll. Explores methods of applying behavioral and cognitive theories to communicating health and behavioral change information. Illustrates communication strategies using a variety of approaches including face-to-face instruction, technology-mediated strategies, and print-based products. Provides students with an overview of concepts and strategies used in data presentation, social marketing, and public health information campaigns. Emphasis is placed on developing skills that enable practitioners to create consumer-oriented public health intervention, advocacy, and professional development efforts. Skills include formative research, audience segmentation, and channel analysis, and multidimensional data presentation.

PRS 530D (2) Quantitative Analysis

SPRING. Pre-Requisites: BIOS 503D and PRS 535D as prerequisites or special permission required to enroll. Provides students with an introduction to measurement methods and basic knowledge of quantitative applications using SAS Enterprise software. Content will stress specific skills and knowledge of working with data sets using basic SAS functions to analyze research questions and hypotheses, perform appropriate data analysis procedures, and interpret data outputs.

PRS 532D (2) Qualitative Research Methods

SPRING. Pre-Requisites: PRS 500D as prerequisite or special permission required to enroll. Introduces students to qualitative research methods used in public health and applied settings. Content covers relevant aspects of qualitative research including research design, sampling, construction of data collection instruments, data collection techniques including observation, interviewing and focus groups, validity and reliability in qualitative research, analysis, and ethical issues.

PRS 533D (2) Qualitative Analysis and Mixed Methods

SPRING. Pre-Requisites: PRS 532D and PRS 535D or special permission required to enroll. Course focuses on the theory & application of qualitative data analysis from multiple sources, including focus group & interview data. Students will use MaxQDA software to analyze previously collected data samples.

PRS 535D (2) Questionnaire Design & Analysis

SPRING. Pre-Requisites: BIOS 503D as prerequisite or special permission required to enroll. This course presents the basics of questionnaire development and data analysis, as well as the interpretation and reporting of findings. The course introduces students to both quantitative and qualitative data methods. The course introduces students to both quantitative and qualitative data methods.

PRS 538D (3) Community Needs Assessment

FALL. Pre-Requisites: BSHES 504D, PRS 532D and PRS 535D and PRS 575D as prerequisite or special permission required to enroll. The purpose of this course is to provide students with the academic background, technical skills and experience to conduct a health-related community needs assessment. The course assignments are a mix of individual and group assignments. Students will work in small groups. Each group will identify a community to assess and will prepare a community needs assessment report outlining the data descriptive of the community and the community health status. The report will form the basis of class presentations and other class assignments.

PRS 540D (3) Conduct of Evaluation Research

FALL. Pre-Requisites: BSHES 504D, PRS 532D and PRS 535D and PRS 575D as prerequisite or special permission required to enroll. This course will provide an overview of program evaluation, using an applied case study approach. Covers all aspects of evaluation research, including formative process, outcome evaluation, and issues related to collection and analysis of both quantitative and qualitative data. Course assignments include required reading, analysis of case study examples and the development of an evaluation plan for a client.

PRS 542D (3) Curriculum Development for the Public Health Workforce

SUMMER. Pre-Requisites: PRS 535D as prerequisite or special permission required to enroll. This course will present principles of curriculum development for the public health workforce. The course will focus on instruction that is presented through distance-based methodologies. Course will cover foundational concepts such as definitions, perspectives and theories; curriculum and instructional design models; and e-learning standards. In addition, the course will delve into instructional technologies, and designing instruction. Students will develop an instructional module designed for distance-based delivery.

PRS 561D (2) Public Health Advocacy Capstone I

SPRING. Pre-Requisites: HPM 500D, PRS 505D, PRS 535D, PRS 542D, PRS 575D, one of PRS 538D or PRS 540D as prerequisites or by special permission. In this capstone course, students work with a local, state, or national organization to develop materials to promote and/or implement a public policy solution to a current, significant domestic or international public health problem. Students will create a digital portfolio of materials such as drafts of proposed policies, fact sheets, Power Point presentations, You Tube videos, and social media messages for the organization to further the adoption or implementation of a policy solution. The capstone experience is intended to provide the student with experience and skills, including working collaboratively with outside organizations, to ultimately lead the transformation of laws and policies to meet the health

EXECUTIVE MASTER OF PUBLIC HEALTH

challenges of the 21st Century. Students will gain an understanding of the public policy-making process; learn to access tools for identification of evidence-based approaches to public health policy development; practice interaction with community-based and governmental organizations around policy matters; and, refine their skills to synthesize scientific and public health policy information into persuasive written and verbal communications with real-world application.

PRS 562D (2) Program Planning Capstone II

SUMMER. Pre-Requisites: PRS 505D, PRS 535D, PRS 542D, PRS 575D, one of PRS 538D or PRS 540D as prerequisites or by special permission. This course is intended to integrate the student's previous coursework with a focus on developing a community intervention or program. Students will develop a comprehensive program plan drawing upon previous coursework and experience in program planning, needs assessment, intervention design, program implementation and evaluation. This course is one of the integrative learning experience options for Prevention Science students that will help build a portfolio that illustrates skills in program planning strategies.

PRS 575D (3) Planning & Performance Measures for Non-Profits & Other Agencies

SUMMER. Pre-Requisites: HPM 500D, PRS 532D, PRS535D and AEPI 515D as prerequisites or by special permission to enroll. Introduces the basic concepts and vocabulary needed to operate, make decisions, and evaluate a nonprofit organization or other local agency. The course focuses on large and small nonprofits and other agencies that provide health education and interventions to improve the health of the public. Attention is given to the flow of funds to and from organizations with consideration given to adherence and compliance to a variety of regulatory requirements. Assignments are a combination of case studies and interactions with actual organizations. The course is designed to provide the learner with practical knowledge and tools to succeed within the nonprofit world.

PRS 580D (3) Research Design & Grant Preparation

SPRING. Pre-Requisites: PRS 505D, PRS 532D, PRS 535D, BSHES 504D, and BIOS 503D as prerequisites or by special permission to enroll. Explores the basics of the scientific methods used in public health research. Covers how to state hypotheses, critique the scientific literature, develop a research design to test stated hypotheses, and write a research proposal. Compares and contrasts proposal writing and grant writing. This course will cover the basics of the scientific methods used in public health research. The course will describe different types of research designs and statements of hypotheses or research questions. Discussions and assignments will include critiquing scientific literature, developing a research design to test stated hypotheses, and writing a proposal for a research study or an intervention program. Assignments will allow students to evaluate research designs, describe elements of a study proposal, distinguish between research proposal writing and program grant writing, and write a competitive grant proposal in their field of work or study.

PRS 595R (1-2) Applied Practice Experience

FALL/SPRING/SUMMER. An Applied Practice Experience (APE) is a unique opportunity that enables students to apply practical skills and knowledge learned through coursework to a professional public health setting that complements the student's interests and career goals. The APE must be supervised by a Field Supervisor and requires approval from an APE Advisor designated by the student's academic department at RSPH.

PRS 597D (3) Directed Study

FALL/SPRING/SUMMER. Provides the opportunity to pursue a specialized course of study in an area of special interest.

PRS 599R (4) Thesis

FALL/SPRING/SUMMER. Pre-Requisites: BIOS 503D, BSHES 504D, PRS 502D, PRS 505D, PRS 535D, PRS 542D, PRS 575D, PRS 580D as prerequisites, or by special permission to enroll. Provides an opportunity to integrate the content and skills learned in the academic setting through participation in scholarly research or other culminating project.

PUBH 501D (0) Inter-Professional Education and Training

SPRING. Pre-requisites: PRS 500D as prerequisite or by special permission to enroll. Students will receive foundational instruction and will have the opportunity to demonstrate skills in the following areas: apply principles of team dynamics to advance teamwork; communicate effectively in inter-professional teams to solve a problem; use the various roles and responsibilities represented among team member to promote solutions; and engage in inter-professional practice with mutual respect and shared values.

PUBH 502D (0) EMPH PH Professional Development

SPRING. Pre-requisites: PRS 500D as prerequisite or by special permission to enroll. This course will introduce public health students to concepts of emotional intelligence and different leadership styles and types, including collaborative leadership and its application to negotiation and mediation. The course will present basic principles of budget and resource management.



INTERDEPARTMENTAL PROGRAMS

Interdepartmental Programs

The Rollins School of Public Health offers three interdepartmental programs. They are:

- MPH in Global Environmental Health (Environmental Health and Global Health)
- MPH in Environmental Health and Epidemiology (Environmental Health and Epidemiology)
- MPH and MSPH in Global Epidemiology (Epidemiology and Global Health)

More detailed information about these programs can be found on the Rollins website. Those interested in any of these programs should contact the ADAP in the department where the program is housed.

MPH in Global Environmental Health (GEH)

The MPH in Global Environmental Health (GEH) program is jointly offered by the Gangarosa Department of Environmental Health (GDEH) and the [Hubert Department of Global Health](#) and is administered by the GDEH. Students in Rollins' GEH MPH program study environmental issues and disparities that impact health across the world, particularly in low-income settings. The goal of this program is to learn approaches to simultaneously alleviate poverty and enhance environmental protection while promoting sustainable development. Students have opportunities to collaborate with global community partners, engage in dynamic research both in the field and in the lab, and work alongside world-renowned faculty whose expertise in climate change, infectious disease, and Water, Sanitation, and Hygiene (WASH) has been positively influencing the field of global environmental health for decades.

GEH is a two-year program requiring a minimum of 42 credits, an Applied Practice Experience (APE), and an Integrated Learning Experience (ILE) project. The curriculum is designed to provide students with the basic skills required to address global environmental health issues. Students are encouraged to take additional elective courses to create an area of specialization based on their interests.

Admission Requirements for the GEH MPH Program

Applicants to the GEH program should have completed at least one course in college-level biology and chemistry; college-level statistics, calculus, and organic chemistry are also recommended. Applicants may apply without biology and chemistry but may be asked to take them prior to matriculating in the program if accepted. International experience and foreign language skills are also highly recommended, and applicants should demonstrate a commitment to global health and an appreciation of cultural diversity. GRE or MCAT scores are optional.

Required MPH Core Courses

Course Number	Course Title	Credit Hours
PUBH 500	Introduction to Public Health	0
PUBH 501	Interprofessional Education and Public Health Leadership	0
BIOS 500/BIOS 500L	Statistical Methods I with lab	4
BSHES 500	Behavioral and Social Sciences in Public Health	2
EPI 530	Epidemiologic Methods I	4
HPM 500	Introduction to the US Health Care System	2
Total Number of Core Credits		12

Required Courses for the MPH in Global Environmental Health

GH 502	Evidence-Based Global Health Policy, Programs, and Research	3
---------------	---	---

EH 501	Introduction to Environmental Health	2
EH 510	Foundations of Exposure Science	2
EH 520	Human Toxicology	3
EH 530 or	Environmental and Occupational Epidemiology	2
EHS 747/EPI 747	Advanced Environmental Epidemiology	2
EH 571	Global Environmental Health Policy: Power, Science, and Justice	2
EH 591	Integrated Learning Experience in EH, Part 1	2
EH 592	Integrated Learning Experience in EH, Part 2	2
EH 595	Applied Practice Experience	0

GEH students must also complete 6 credits from the following GH methods classes. It is recommended, but not required, to choose two classes in the same sequence:

GH 501	Health Systems, Social Justice, and Equity	3
GH 511	Prog. Cycle 1: Planning & Managing Global Health Programs	3
GH 512	Prog. Cycle 2: Monitoring & Evaluation of Global Public Health Programs	3
GH 521	Qualitative Methods I: Data Collection	3
GH 522	Qualitative Methods 2: Data Analysis	3
GH 531	Quantative Methods I; Data Collection	3
GH 532	Quantative Methods 2: Data Analysis	3
Electives		6+
Total Number of Credits for the GEH MPH:		42

BIOS 501, Statistical Methods II w/lab, Spring, 4 credits is strongly recommended for GEH MPH students.

Electives: Students take electives (non-required classes) to attain the minimum number of credits required for the degree. Students may enroll in classes in RPSH or other graduate-level classes at other Emory schools or via the ARCHE program (with permission) to enhance their interests and skills. Review this catalog, the EH website and/or the Emory Course Atlas for RSPH course descriptions.

Integrative Learning Experience

As the culmination of their educational experience, students work with a faculty adviser and/ or field mentor to design a culminating Integrative Learning Experience that demonstrates the student’s mastery of a global environmental health topic relevant to their short and long-term career objectives.

Course Number	Course Title	Credit Hours
EH 591	Integrated Learning Experience in EH, Part 1	2
EH 592	Integrated Learning Experience in EH, Part 2	2

MPH in Environmental Health-Epidemiology

The MPH in Environmental Health and Epidemiology (EH-EPI) is jointly offered by the Gangarosa Department of Environmental Health (GDEH) and the Department of Epidemiology and is administered by the GDEH. This program provides students with a professional research degree focusing on analytical and quantitative epidemiology, biostatistics, and environmental and occupational health. The EH-EPI MPH program prepares students to be at the cutting edge of researching pressing environmental and epidemiological health concerns, as they are required to take the most quantitative epidemiology and biostatistics course sequences at Rollins. Students in this program are dedicated to becoming epidemiologists working with an environmental health

INTERDEPARTMENTAL PROGRAMS

perspective. It is a two-year program with a minimum of 44 credits and requires an Applied Practice Experience (APE) and Integrated Learning Experience (ILE).

Admission Requirements for the EH-EPI MPH Program

Applicants to the EH-EPI MPH program should have strong quantitative skills and completed at least one course in college-level biology and chemistry; college-level statistics, calculus, and organic chemistry are also recommended. Applicants may apply without biology and chemistry but may be asked to take them prior to matriculating in the program if accepted. GRE or MCAT scores are optional.

Required MPH Core Courses

Course Number	Course Title	Credit Hours
PUBH 500	Introduction to Public Health	0
PUBH 501	Interprofessional Education and Public Health Leadership	0
BIOS 500/BIOS 500L	Statistical Methods I with lab	4
BSHES 500	Behavioral and Social Sciences in Public Health	2
EPI 530	Epidemiologic Methods I	4
GH 500	Critical Issues in Global Health	2
HPM 500	Introduction to US Health Care System	2
Total Required Core Hours:		14

Required Courses for the MPH in Environmental Health-Epidemiology

BIOS 591P	Statistical Methods II	3
EPI 534	Statistical Programming	2
EPI 535	Designing and Implementing Epidemiologic Studies	2
EPI 540	Epidemiologic Methods II w/Lab	4
EPI 550	Epidemiologic Methods III w/Lab	4
EH 501	Introduction to Environmental Health	2
EH 510	Foundations of Exposure Science	2
EH 520	Human Toxicology	3
EH 570	Environmental Health Law and Policy	2
EHS 747/EPI 747	Advanced Environmental Epidemiology	2
EH 591	Integrated Learning Experience in EH, Part 1	2
EH 592	Integrated Learning Experience in EH, Part 2	2
EH 595	Applied Practice Experience	0
Total Required Hours for EH-EPI MPH:		44

Integrative Learning Experience

For the culmination of their educational experience, students work with a faculty adviser and/or field mentor to design a culminating Integrative Learning Experience that demonstrates the student's mastery of an environmental health and epidemiological topic relevant to their interests and career objectives.

Global Epidemiology

The departments of Epidemiology and Global Health work collaboratively to offer an MPH and MSPH in Global Epidemiology (GLEPI). The program is designed to provide students with qualitative and quantitative research methodologies that enable graduates to contribute to global health.

Global Epidemiology MPH Program Degree Requirements

The MPH in Global Epidemiology is a 42-credit-hour professional degree program designed to prepare epidemiologists for the public health workforce. Through a sequence of epidemiologic and biostatistical methods courses and training in two statistical programming languages (SAS and R), students are well-equipped with the skills needed to be influential public health professionals. Students further specialize their training through a substantive selective course, which contextualizes their methods training to a particular area of epidemiology. This selective only introduces students to the application of methods to a particular substantive area, and provides an opportunity to critically evaluate the epidemiologic literature. Students complete their training through foundational coursework in the other public health disciplines.

Required Courses for the MPH Degree in Global Epidemiology

Course Number	Course Title	Credit Hours
PUBH 500	Introduction to Public Health	0
PUBH 501	Interprofessional Education and Public Health Leadership	0
BIOS 500/BIOS 500L	Statistical Methods I with lab	4
BSHES 500	Behavioral and Social Sciences in Public Health	2
EH 500	Perspectives in Environmental Health	2
GH 502	Evidence-Based Global Health Policy, Programs, and Research	3
HPM 500	Introduction to the US Health Care System	2
Total Required Core Hours		13
BIOS 591P	Statistical Methods II	3
EPI 530	Epidemiologic Methods I	4
EPI 534	Statistical Programming	2
EPI 535	Designing and Implementing Epi. Studies	2
EPI 540	Epidemiologic Methods II	4
EPI 550	Epidemiologic Methods III	4
EPI 595R	Applied Practice Experience	0
EPI 598R/C	Thesis/Capstone	4
EPI ---	Substantive Area Selective	2
GH Methods Electives	GH Methods Selective	2
Total for MPH Degree in Global Epidemiology		42

GLEPI MPH students complete an applied practice experience of at least 200 hours. Additional information may be found on page 46. The Integrative Learning Experience for the GLEPI MPH allows students to apply the principles and methods learned in coursework to a public health problem. The GLEPI MPH applied practice experience and Integrative Learning Experience must have international public health implications or, if focused domestically, for underserved or low-resource populations.

Global Epidemiology MSPH Program Degree Requirements

The GLEPI MSPH degree provides global context for epidemiologic training and is designed for students with strong quantitative skills seeking a more in-depth education in epidemiologic methods. This degree program is particularly well-suited for students who are interested in a research-focused career. The MSPH in GLEPI is a 48-credit-hour professional degree program. Students complete a rigorous methods sequence including: four semesters of epidemiologic methods coursework, two semesters of biostatistical methods coursework, coursework in SAS and R programming languages, and a substantive and

INTERDEPARTMENTAL PROGRAMS

methodological selective. Students are well-equipped to apply advanced methodologies to solve public health problems and have expertise to contribute to study design and analysis. Students complete their training through foundational coursework in the other public health disciplines.

Required Courses for the MSPH Degree in Global Epidemiology

Course Number	Course Title	Credit Hours
PUBH 500	Introduction to Public Health	0
PUBH 501	Interprofessional Education and Public Health Leadership	0
BIOS 500/BIOS 500L	Statistical Methods I with lab	4
BSHES 500	Behavioral and Social Sciences in Public Health	2
EH 500	Perspectives in Environmental Health	2
GH 502	Evidence-Based Global Health Policy, Programs, and Research	3
HPM 500	Introduction to the US Health Care System	2
Total Required Core Hours		13
BIOS 591P	Statistical Methods II	3
EPI 530	Epidemiologic Methods I	4
EPI 534	Statistical Programming	2
EPI 535	Designing and Implementing Epi. Studies	2
EPI 545	Advanced Epidemiologic Methods II	4
EPI 550	Epidemiologic Methods III	4
EPI 560	Epidemiologic Methods IV	4
EPI 595R	Applied Practice Experience	0
EPI 599R	Thesis	4
EPI ---	Substantive Area Selective	2
EPI ---	Methods Selective	2
GH Methods	GH Methods Selective	2
Electives		2
Total for MSPH Degree in Global Epidemiology		48

GLEPI MSPH students complete an applied practice experience of at least 200 hours. Additional information may be found on page 46. The Integrative Learning Experience for the MSPH is a thesis. Under the mentorship of a faculty thesis advisor, students apply the principles and methods learned in an academic setting to the preparation of a monograph that embodies original research applicable to public health. The MSPH thesis should incorporate at least one novel or innovative element, such as a novel hypothesis or an innovation in the analytic methods applied to the given topic area. All students must create and present a scientific poster on their applied practice experience or Integrative Learning Experience prior to graduation. The GLEPI MSPH applied practice experience and Integrative Learning Experience must have international public health implications or, if focused domestically, for underserved or low- resource populations.

Dual-Degree Programs

The Rollins School of Public Health offers dual-degree programs with the Emory schools of business, medicine, nursing, theology, law, and the Laney Graduate School.

Candidates for dual-degree programs must apply to each school separately. Evaluation criteria for admission to the Rollins School of Public Health for students in the dual-degree program are the same as those for the MPH program alone. Students accepted into the dual-degree program will be notified of acceptance by both schools. If students are accepted into one school but not the other, they may enroll in the school that has accepted them but not as a dual-degree student. Upon admission to the dual-degree program, students should consult with the appropriate program director of each school to plan their courses of study.

During the admission process, applicants to Rollins must indicate the department in which they are interested in pursuing a dual degree. The departments or academic programs that participate in the dual degree program are Behavioral, Social, and Health Education Sciences; Environmental Health; Epidemiology; Global Environmental Health; Global Epidemiology; Global Health; and Health Policy and Management. Not all departments and academic programs participate in every dual degree program. Those who participate are noted in the descriptions of each dual degree program on the following pages. The dual degree MPH curriculum is based on individual department requirements and meets the competencies for each program area.

Two semesters of residency at Rollins are required of all dual degree students. Students are required to complete MPH degree core courses, department required courses, and elective coursework. Up to 10 semester hours of credit earned in the partnering school may be counted as elective credit hours toward the MPH degree. Courses for each program that may count as elective credits toward the MPH degree are noted in the descriptions of each dual-degree program on the following pages. Students may propose relevant elective coursework from their degree program in lieu of the courses listed below.

During their residency in the Rollins School of Public Health, students will be charged the current rate of tuition for dual-degree students. When enrolled in the partnering program, the student will be charged the current rate of tuition by that school or program. School-sponsored scholarships and grants are applicable only to those semesters in which the student is in residency at the respective schools.

Rollins School of Public Health dual degree students are assigned an expected graduation date concurrent with their expected graduation date from their dual degree program (e.g. MD, JD, MBA, etc.). Students who complete the MPH degree requirements, including electives from their dual degree program, may apply to graduate with the MPH prior to their dual degree program. Should a dual degree student desire to earn the MPH in advance of their dual degree program, they should contact their [ADAP](mailto:rsphenrollmentservices@emory.edu) and Rollins School of Public Health Enrollment Services at rsphenrollmentservices@emory.edu.

For specific dual-degree courses, please refer to the departmental websites at <https://sph.emory.edu/departments/index.html>.

MA in Bioethics/MPH

The Laney Graduate School and the Rollins School of Public Health collaborate in a program granting the master of arts and the master of public health degrees (MA-Bioethics/MPH). The first year is spent at the Rollins School of Public Health and the second year at the Laney Graduate School.

DUAL-DEGREE PROGRAMS

The departments/programs that participate in the MA-Bioethics/MPH are Behavioral Sciences and Health Education, Environmental Health, Epidemiology, Global Environmental Health, Global Epidemiology, Global Health, and Health Policy and Management.

The goal of this program is to train a select group of students in the intersection of public health and bioethics. Students who graduate with a dual MA in Bioethics/MPH degree will be well qualified to help set priorities for pandemics or other allocations of scarce resources, to set public policy on access to health care, or to conduct education on the ethical foundations of public health practice.

The following courses offered through the Bioethics curriculum may be used as elective credit hours toward the MPH degree:

Course Number	Course Title	Credit Hours
BIOETH 501	Foundations in Bioethics I	3
BIOETH 502	Foundations in Bioethics II	3
BIOETH 503	Foundations in Bioethics III	3
BIOETH 504	Seminar in Bioethics	1
BIOETHICS 505*	Special Topics in Bioethics	3

*Can be taken multiple times; previous/current courses in this number include:

Bioethics and the Law
Animals and Ethics
Neuroethics
Ethics of Human Subjects Research
Public Health Ethics
Religion and Bioethics
Distributive Justice
Human Rights and Bioethics

MBA/MPH Degree

Goizueta Business School and Rollins collaborate in a program granting the master of business administration and master of public health degrees. In the application process, scores from the GMAT may substitute for the GRE requirement. Students can complete this program in five semesters, of which two are in residence at Rollins. Candidates begin the program in the fall with two semesters in the business school. The following fall and spring the candidates enroll in Rollins. During the final fall semester, the candidate takes electives in both schools but enrolls in the business school.

Department and academic programs participating in the MBA/MPH dual-degree program are Behavioral, Social, and Health Education Sciences; Environmental Health; Epidemiology; Global Environmental Health; Global Epidemiology; Global Health; and Health Policy and Management.

Students in the MBA/MPH program gain the skills and knowledge to effectively lead and manage public health systems and programs, as well as advise on domestic and global health policy issues. Graduates of the MBA/MPH program are trained to work in health programs on issues such as policy and funding, defining goals, and managing public health organizations.

The following courses offered through the MBA's curriculum may be used as elective credit hours toward the MPH degree:

Course Number	Course Title	Credit Hours
ISOM 550	Data and Decision Analytics	3
OAM 530	Leading Organizations and Strategy	3
ISOM 551A	Process and Systems Management	1.5

OAM 520	Coaching and Team Performance	1
OAM 561	Principled Leadership	3

MD/MPH

Emory University School of Medicine and Rollins collaborate in a program granting the doctor of medicine and master of public health. This program is designed to be completed within five years, four of which are spent primarily in the medical school. It is recommended, but not required, that the year spent in the Rollins School of Public Health follow the third year of medical school.

Candidates for the MD/MPH must apply to the School of Medicine and submit a one-page essay describing their interest in public health. Students applying to the MD/MPH will have an opportunity to visit Rollins and meet with faculty at the time of their medical school interview and will be interviewed in the year prior to enrolling at Rollins. Applicants will be notified of acceptance into the dual-degree program after they are accepted by the School of Medicine.

The departments and academic programs that participate in the MD/MPH dual-degree program are Behavioral, Social, and Health Education Sciences; Environmental Health; Epidemiology; Global Environmental Health; Global Epidemiology; Global Health; and Health Policy and Management. The schools of Medicine and Public Health will defray a portion of the cost of tuition and fees for the MPH degree. This program prepares students to work as physicians in the public health field, enabling them to diagnose health problems and risk factors of individuals and communities. Physicians who are awarded an MPH will have the ability to work in international and government agencies, clinics, health departments, and research centers as well as teach at the School of Public Health.

The following courses offered through the medical school’s curriculum may be used as elective credit hours toward the MPH degree:

Course Number	Course Title	Credit Hours
MD 620	Foundation—Infectious Diseases	2
MD 640	Foundation—Evidence Based Medicine	1
MD 642	Foundation—Ethics in Medicine I	1
MD 645	Foundation—Community Learning and Social Medicine	6

MSN/MPH Degree

The Nell Hodgson Woodruff School of Nursing and the Rollins School of Public Health collaborate in a dual-degree program offering the master of science in nursing (MSN) and master of public health (MPH). Students will enroll at Rollins for one calendar year and then complete requirements for the MSN within the School of Nursing.

Dual-degree students are required to choose a specialty in the nursing school as well as a department at Rollins. Nursing specialties include acute care nurse practitioner, adult/gerontology nurse practitioner, emergency nurse practitioner, family nurse practitioner, family nurse-midwife, health systems leadership, nurse-midwifery, pediatric nurse practitioner—acute care, pediatric nurse practitioner—primary care, women’s health/adult health nurse practitioner, women’s health nurse practitioner, and women’s health care.

Rollins School of Public Health departments and academic programs participating in the MSN/ MPH dual-degree program are Behavioral, Social, and Health Education Sciences; Environmental Health; Epidemiology; Global Environmental Health; Global Epidemiology; Global Health; and Health Policy and Management.

DUAL-DEGREE PROGRAMS

This program prepares professional nurses for leadership roles in health care and in the field of public health. The MSN/MPH program combines clinical nursing skills with public health knowledge to help future nurses assume leadership roles as they deliver care to at-risk individuals and work to improve community health. A person who obtains an MSN/MPH will have the credentials to direct or manage a public health organization, engage in preventive health services, and promote health within communities. They will be able to speak on behalf of those affected by public health crises.

The following courses offered through the nursing school's curriculum may be used as elective credit hours toward the MPH degree:

Course Number	Course Title	Credit Hours
NRSNG 505	Research and Evidence Based Practice	3
NRSNG 524	Becoming an APRN	2
NRSNG 528	Advanced Physiology/Pathophysiology Across the Lifespan	3
NRSNG 544	Advanced Health Assessment	3
NRSNG 684	Innovative Leadership and Policy in Advanced Nursing Practice Role	3

JD/MPH Degree

The School of Law and Rollins School of Public Health collaborate to offer a dual-degree program awarding the master of public health and doctor of law (JD) degrees. Students must complete all courses prescribed for the JD program, with no fewer than five semesters of residence in the School of Law. Enrollment in at least two semesters at Rollins is also required. LSAT scores may be substituted for GRE scores as part of the public health application and other evaluation criteria remains the same for public health applicants. It is recommended that the student attend Rollins between the first and second year of the law school curriculum.

The departments and academic programs participating in the JD/MPH dual degree program are Behavioral, Social, and Health Education Sciences; Environmental Health; Epidemiology; Global Environmental Health; Global Epidemiology; Global Health; and Health Policy and Management.

By combining the programs, students are able to develop a special expertise in public health-related legal issues, to advocate for and create public health programs and policies, and to solve public health problems using legal tools. The JD/MPH program prepares students to advise and advocate for public health departments, private organizations, individuals, and communities.

The following courses offered through the law school's curriculum may be used as elective credit hours toward the MPH degree:

Course Number	Course Title	Credit Hours
LAW 575	Legislation/Regulation	4
LAW 530	Constitutional Law I	4
LAW 520	Contracts	4
LAW 525	Criminal Law	3
LAW 545	Property	4
LAW 550	Torts	4
LAW 505	Civil Procedure	4

MMSC in Physician Assistant/MPH Degree

The Physician Assistant Program of the School of Medicine and the Rollins School of Public Health collaborate in offering a dual-degree program awarding the master of public health and master of medical science degrees. Students enroll at Rollins for one calendar year during their first year at Emory. They then complete an additional seven semesters in the Physician Assistant Program including summers.

Departments and academic programs participating in the PA/MPH dual degree program are Behavioral, Social, and Health Education Sciences; Environmental Health; Epidemiology; Global Environmental Health; Global Epidemiology; Global Health; and Health Policy and Management.

The PA program emphasizes primary health care and preventive medicine and seeks to interest students in working in medically underserved areas. Students may apply their combined PA/ MPH skills in such areas as population or clinical research, health administration leadership, and community health promotion.

The following courses offered through the Physician Assistant’s curriculum may be used as elective credit hours toward the MPH degree:

Course Number	Course Title	Credit Hours
PAE 7100	Medical Communications	2
PAE 7105	Professional Issues II	2
PAE 7103	Biomedical Ethics	2
PAE 7104	Foundations of Community and Social Medicine	2
PAE 7106	Professional Issues II	2

DPT/MPH

The Physical Therapy Program of the School of Medicine (Department of Rehabilitation Medicine) and the Rollins School of Public Health collaborate in offering a dual-degree program awarding the master of public health and doctor of physical therapy degrees. The doctor of physical therapy (DPT) degree is a professional doctorate in physical therapy.

The DPT/MPH program is four years in length. Students spend their first two years in the DPT program developing a strong foundation in the basic and clinical science with an emphasis on movement and movement dysfunction. In the third academic year, students focus on the MPH degree, enrolling at Rollins. Students return to the DPT program for the final academic year.

Departments and academic programs participating in the DPT/MPH dual degree program are Behavioral, Social, and Health Education Sciences; Epidemiology; Global Health; Global Epidemiology; and Health Policy and Management. The combined DPT/MPH degree enables physical therapists to become leaders in preventive health care policy and practice as well as effective therapists following a public health crisis. They bring rehabilitation into the sphere of public health.

The following courses offered through the Division of Physical Therapy may be used as elective credit hours towards the MPH degree:

Course Number	Course Title	Credit Hours
DPT 720	Ethics and Professionalism	2
DPT 700	Health Promotion, Wellness and Prevention: Individual	1
DPT 725	Interpersonal Communications	2
DPT 740	Introduction to Interventions	4
DPT 765	Evidence-Based Practice	2
DPT 825	Exploration of Human Behavior	2
DPT 820	Health Service and Management	3
DPT 920	Health Promotion, Wellness & Prevention: Community	2

DUAL-DEGREE PROGRAMS

MDiv/MPH

The Candler School of Theology collaborates with Rollins in offering a dual-degree program awarding both the master of divinity and master of public health degrees (MDiv/MPH). The dual-degree program may be completed in four years. The first year is spent at the Candler School of Theology, the second year at Rollins School of Public Health, and the third and fourth years are completed at Candler.

Departments and academic programs participating in the MDiv/MPH dual degree program are Behavioral, Social, and Health Education Sciences; Environmental Health; Epidemiology; Global Environmental Health; Global Epidemiology; and Health Policy and Management.

The dual-degree program prepares students to use a theological foundation when working in the field of public health. Public health professionals who hold the MPH/MDiv are trained to work in public health within the context of religious institutions, applying religious and theological knowledge to enhance health programs for special populations.

Coursework offered through Candler School of Theology in the following program areas may be used as elective credit hours toward the MPH degree. Students should confirm with their academic advisor that the course fulfills the requirements.

Course Number	Course Title	Credit Hours
ES 501	Christian Ethics	3
PC 501CE	Contextual Education: Pastoral Care	3
CE 551B	Contextual Education I Spring	2
CEI 551A	Contextual Education I Fall	3

MTS/MPH

The Candler School of Theology collaborates with the Rollins School of Public Health in offering a dual-degree program awarding both the master of theological studies and master of public health degrees (MTS/MPH). The dual-degree program may be completed in three years. The first year is spent at the Candler School of Theology, the second year at Rollins, and the third year is completed at Candler.

Departments and academic programs participating in the MTS/MPH dual-degree program are Behavioral, Social, and Health Education Sciences; Environmental Health; Epidemiology; Global Environmental Health; Global Epidemiology; and Health Policy and Management.

As with the MDiv/MPH program, an MTS/MPH prepares students to use a theological foundation when working in the public health field. Public health professionals who hold the MTS/MPH are trained to work in public health within the context of religion and the theological knowledge to enhance health programs for special populations.

Coursework offered through Candler School of Theology in the following program areas may be used as elective credit hours toward the MPH degree. Students should confirm with their academic advisor that the course fulfills the requirements.

Course Number	Course Title	Credit Hours
ES XXX	Any Ethics and Society Courses	1-3
RP XXX	Any Religion and Personality Courses	3
Sociology XXX	Any Sociology Course	3

PhD/MPH

A joint master of public health/doctor of philosophy (MPH/PhD) degree is offered through the Rollins School of Public Health and Laney Graduate School. Prospective candidates apply separately to both the Rollins School of Public Health and Laney Graduate School. Students in Laney Graduate School may apply for admission to the MPH program during their graduate studies with the approval of their PhD program's director of graduate studies. Applicants specify which of five programs of study or department they prefer: Behavioral, Social, and Health Education Sciences; Environmental Health; Epidemiology; or Global Health. Up to 10 semester hours of course credit relevant for public health taken in the doctoral program may be applied toward the 42-semester-hour MPH program. Students must enroll full time at Rollins for a fall- spring semester sequence, and complete an applied practice experience in public health. The MPH is granted upon completion of requirements for the PhD.

For specific information, contact the Department of Student Services <https://sph.emory.edu/admissions/index.html>.

MPH/JM

A dual master of public health and juris master (MPH/JM) is offered in cooperation with the Emory Law School. The JM curriculum does not qualify recipients to practice law. Rather, it is designed to supplement a student's professional pursuits in areas beyond legal practice. Professionals in the public health sector are required to adapt to new realities, including the law as it applies to matters of public health, human rights, environment, public health policy, privacy, and interrelated issues.

Candidates for the dual degree should apply to and be accepted by both Rollins and Emory Law School as the schools maintain independent application procedures.

The minimum length of program is two and a half years: the first three semesters at Rollins (fall, spring, fall); and two semesters at the Law School (spring, fall). Students must complete 42 credit hours for the MPH and 30 credit hours for the JM.

The student must register and pay tuition for three semesters at Rollins at the accelerated rate and two semesters at the Law School, but may take courses in either school. Rollins' scholarships and grants are applicable only to those semesters in which the student is in residency in the Rollins School of Public Health.

Graduates who hold an MPH/JM will possess a legal grounding in the basics of torts and contracts, in addition to laws related to health research, policy, and regulation enabling them to better assess organizational risk and make informed decisions contributing to the people they serve.

For additional information about Rollins, contact the Department of Student Services, <https://sph.emory.edu/admissions/index.html>. For additional information on the JM degree contact law.emory.edu.

Five-Year Bachelor/Master's Program with Emory College: BA or BS/MSPH Program - Biostatistics

Emory College and the Rollins School of Public Health jointly offer a five-year bachelor's/ master's degree program. Students have an opportunity to complete a bachelor of arts (BA) or bachelor of science (BS) at Emory College with a major concentration in mathematics and computer sciences, and a master of science in public health (MSPH) in biostatistics within five years. Emory College students will apply and be admitted to the program during their third (junior) year and enroll in eight to 12 semester hours of credit in MSPH courses during their fourth (senior) year. Two undergraduate courses (totaling six semester hours) offered by the Department of Mathematics and Computer Science will also count toward the MSPH in biostatistics. Students graduating from Emory College with a BA or BS will then take courses during their fifth year as MSPH students in the Rollins School of Public Health.

DUAL-DEGREE PROGRAMS

BA-BS/MSPH Required Coursework

Course Number	Course Title	Credit Hours
PUBH 500	Introduction to Public Health	0
PUBH 501	Interprofessional Education and Public Health Leadership	0
EPI 530	Epidemiologic Methods I	4
EH 500	Perspectives in Environmental Health	2
BSHES 500	Behavioral and Social Sciences in Public Health	2
HPM 500	Introduction to the US Health Care System	2
GH 500	Critical Issues in Global Health	2
MATH 361	Probability and Statistics I	3
MATH 362	Probability and Statistics II	3
BIOS 508	Biostatistical Methods I	4
BIOS 509	Applied Linear Models	4
BIOS 522	Survival Analysis Methods	2
BIOS 526	Modern Regression Analysis	3
BIOS 531	SAS Programming	2
BIOS 595	Applied Practice Experience	0
BIOS 580	Statistical Practice I	2
BIOS 581	Statistical Practice II	2
or BIOS 599R	Thesis	2
	Electives	11

BS/MPH Five-Year Program - Environmental Health

A five-year bachelor's/master's degree (BS/MPH) is offered through the Emory College Department of Environmental Sciences (ENVS) and the Rollins School of Public Health Gangarosa Department of Environmental Health (GDEH). Students can earn a bachelor of science and master of public health in five years. Sophomores and juniors in the ENVS BS program with a minimum cumulative GPA of 3.25 may apply by the February deadline. Visit our website for details and an application: <https://www.sph.emory.edu/departments/eh/degree-programs/bs-mph-es-eh/index.html>.

Required MPH Core Courses

Course Number	Course Title	Credit Hours
PUBH 500	Introduction to Public Health	0
PUBH 501	Interprofessional Education and Public Health Leadership	0
PUBH 502	Public Health Professional Development Seminar	0
BIOS 500/BIOS 500L	Statistical Methods I with lab	4
EPI 530	Epidemiologic Methods I	4
BSHES 500	Behavioral and Social Sciences in Public Health	2
GH 500	Critical Issues in Global Health	2
HPM 500	Introduction to the US Health Care System	2

Required Courses for the MPH in Environmental Health for the BS/MPH Program

EH 501 or	Introduction to Environmental Health	2
EH 500	Perspectives in Environmental Health	2
EH 520	Human Toxicology	3
EH 524	Risk Assessment I	2
EH 530	Environmental and Occupational Epidemiology	2
EH 570	Environmental Health Law and Policy	3
EH 595	Applied Practice Experience	0
EH 596	Research Design in Environmental Health	1
Or GH 555	Proposal Development	2
EH 594	Capstone Seminar: Skills for Environmental Health	4

BA/MPH Five-Year Program - Epidemiology

A five-year bachelor's/master's degree (BA/MPH) is offered through the Emory College of Arts and Sciences Center for the Study of Human Health and the Rollins School of Public Health's Department of Epidemiology. Students can earn a Bachelor of Art in Human Health and Master of Public Health in Epidemiology in five years. Juniors in the HH BA program with a minimum cumulative GPA of 3.5 may apply by the December deadline. Visit our website for details: <https://humanhealth.emory.edu/degreesandprograms/academic-programs/human-health-ba-epidemiology-mpH-4-1.html>

Required Courses for the BA/MPH Degree in Epidemiology

Course Number	Course Title	Credit Hours
PUBH 500	Introduction to Public Health	0
PUBH 501	Interprofessional Education and Public Health Leadership	0
BIOS 500/BIOS 500L	Statistical Methods I with lab	4
BSHES 500	Behavioral and Social Sciences in Public Health	2
EH 500	Perspectives in Environmental Health	2
GH 500	Critical Issues in Global Health	2
HPM 500	Introduction to the US Health Care System	2
Total Required Core Hours		13
BIOS 591P	Statistical Methods II	3
EPI 530	Epidemiologic Methods I	4
EPI 534	Statistical Programming	2
EPI 535	Designing and Implementing Epi. Studies	2
EPI 540	Epidemiologic Methods II	4
EPI 550	Epidemiologic Methods III	4
EPI 595	Applied Practice Experience	0
EPI 598C/R	Capstone/Thesis	4
EPI ---	Substantive Area Selective	2
Electives		4
Total for MPH Degree in Epidemiology		42

ACCELERATED MPH

Accelerated MPH (2 semester) for External Graduate/Professional Degree Students

Graduate students in good standing at any fully-accredited U.S. university are welcome to apply to Rollins for an MPH year (2 semesters in residence) as part of their current degree program. Students may attend Rollins at any time prior to completion of their program studies and the receipt of their degree. Students who completed an advanced graduate or professional degree and are no longer degree seeking students at another institution are not eligible for this program.

Admission to this program and the curriculum to be pursued is considered on an individual basis. Applicants to this program are required to submit supplementary material to SOPHAS identifying relevant coursework taken or planned in their current graduate and professional program relevant to public health.

The Accelerated MPH for External Graduate/Professional Degree Students provides an opportunity for students currently enrolled in accredited graduate and professional schools other than Emory University including schools of Medicine (AMA), Nursing (ACEN), Law (ABA), Social Work (CSWE), Veterinary Medicine (COE), Osteopathy (AOA), Pharmacy (ACPE), and Dentistry (CODA) to obtain an MPH in addition to their professional degree. To be considered for the Accelerated MPH, the Graduate/Professional Program a student is enrolled in must be no less than 42 credit hours. To ensure the integration of training, students will enroll in the MPH and spend a year (fall and spring semesters) at the Rollins School of Public Health. Students will attend Rollins in concert with the course of study in their initial professional degree program. A student's year of matriculation at Rollins will be coordinated with school administration to ensure all requirements are met.

Coursework from the graduate/professional school program must be transferred towards the MPH so that the student earns at least 42 credit hours for the MPH degree. All potential transfer credits will be reviewed and approved by the student's academic program. Once enrolled in the MPH program, students must complete 32-36 credit hours, depending on the MPH concentration, during the fall-spring semester sequence. Rollins will award the MPH degree after an enrolled student presents evidence of completion of all requirements for the MPH degree, including official transfer credit hours to meet the 42-credit hour degree requirement. Students are responsible for staying in communication with the Office of Enrollment Services regarding their expected completion of all MPH requirements.



Rollins Certificate Programs

The Rollins School of Public Health offers a variety of certificate programs that can be earned in conjunction with an MPH or MSPH degree. Certificate programs aim to train RSPH students in specialized areas critical to public health practice. Certificate programs are developed around Rollins’ school mission and competencies. Certificates earned are reflected on the student’s official transcript.

Independent Certificate Program

Some certificates can be earned independently of an MPH/MSPH degree. Independent Certificate Programs consist of a total of 12-20 semester hours, usually 5-8 courses. An Integrative Learning Experience may also be required in addition to the coursework.

Certificate in Quantitative Methods in Public Health

The Certificate in Quantitative Methods in Public Health (executive format) is designed for working professionals who have determined that they need additional quantitative skills to advance their employment opportunities. These individuals already have a master’s degree or higher OR have a bachelor’s degree with three or more years of relevant work experience. The coursework covers the following overarching areas: description of public health problems of epidemiologic importance, data identification, design and conduct of epidemiologic research studies, management and analysis of data, literature review and interpretation, and information technology for scientific productivity. Students in the certificate will gain proficiency in SAS.

Competencies for the Certificate in Quantitative Methods in Public Health:

1. Describe distributions of morbidity, mortality and risk factors
2. Identify key sources of data for epidemiologic purposes
3. Formulate a research question and study aims
4. Differentiate among the strengths and limitations of various study designs
5. Calculate and interpret basic design-specific measures of association and their standard errors
6. Conduct basic epidemiologic research using multivariable models (e.g., linear, logistic, Cox, Poisson regression)
7. Interpret individual published epidemiologic studies in which major epidemiologic study designs are used
8. Utilize statistical programming packages in preparing scientific reports
9. Communicate epidemiologic information in a written scientific report
10. Recognize potential ethical issues in epidemiologic studies

Courses required for the Certificate in Quantitative Methods in Public Health (executive format):

AEPI 530D	Applied Epidemiology I	(3 credit hours)
AEPI 534D	Applied Epidemiology II	(3 credit hours)
AEPI 536D	Epidemiological Modeling	(3 credit hours)
BIOS 516D	Applied Biostatistics I	(2 credit hours)
BIOS 517D	Applied Biostatistics II	(2 credit hours)
BIOS 518D	Applied Biostatistics III	(2 credit hours)

This program must be completed in three semesters (12 months) of study due to the course sequencing.

Certificates Earned in Conjunction with MPH/MSPH Degrees

Rollins offers eight school certificate programs that degree-seeking students may earn in conjunction with their MPH/MSPH degrees and three collaborative certificate programs (see the “collaborations” section in this catalog). The basic curriculum includes coursework, a relevant practicum/Applied Practice Experience, and a culminating experience/Integrative Learning Experience that relates

CERTIFICATE PROGRAMS

to the certificate topic. Through Rollins' core and department requirements, the student gains the MPH/ MSPH core competency knowledge as part of the degree program. Each certificate curriculum identifies a set of competencies that will be met through the completion of the program. Certificate coursework (exclusive of the Applied Practice Experience and Integrative Learning Experience) is beyond the student's degree program's core and required departmental courses (non-electives). However, courses taken for certificates may be counted as electives toward degree completion.

Certificate coursework (exclusive of the Applied Practice Experience and Integrative Learning Experience) is beyond the core and required departmental non-elective courses for fulfillment of the student's degree program, but may be counted as electives toward degree completion. There are three additional certificates offered through the University that appear in the collaborations section of this catalog on page 199.

Certificate in Climate and Health

The Certificate in Climate and Health at the Rollins School of Public Health positions students to be leaders in what the World Health Organization has called "the defining issue of the 21st century." Students participating in this certificate program will benefit from Emory University's substantial strengths and connections in the field of climate change and will develop an understanding of research, programmatic, and policy tools required to address the health impacts of climate change.

This certificate is designed to prepare students to make strong contributions to climate change research, policy, and/or practice. Through coursework and an Integrative Learning Experience, students will develop the skills and expertise to be competitive for challenging climate-related careers and/or to pursue a doctoral degree in the field. Students are also strongly encouraged to pursue a climate-related Applied Practical Experience.

This is a self-guided certificate program and open to all RSPH degree seeking students. Students are expected to familiarize themselves with the requirements and plan their participation accordingly. There is not an official application process, but students interested in pursuing and/or officially declaring the certificate should complete the interest/declaration form on [our website](#).

Competencies of the Certificate in Climate and Health

Upon conclusion of the Certificate in Climate and Health, students should have:

- A strong understanding of the health impacts of climate change.
- A strong understanding of possible solutions to mitigate and prevent the health impacts of climate change.
- A strong understanding of research, programmatic, and policy tools for describing the health impacts of climate change and/or advancing solutions that address those impacts.

Certificate Requirements

To receive a Certificate in Climate and Health, students will have to complete the following requirements:

- A total of 12 credits of coursework, including:
 - Two required courses (4 credits)
 - Two elective courses from an approved list (4 credits)
 - Integrative Learning Experience: Thesis or Capstone focused on climate and health (4 credits)
- In addition, we strongly encourage students pursuing a Certificate in Climate and Health to use the [Applied Practice Experience](#) requirement of the RSPH MPH and MSPH programs (in which students must complete a minimum of 200 hours in one or two public health agencies, institutions, or communities) to either develop more substantive experience with climate change and/or to gain more experience with tools that can be applied to future work on climate and health.

Required Courses

Two required courses (4 credits total):

EH/GH 582: Global Climate Change: Health Impacts and Response (2, Fall)

EH 586: Advanced Seminar in Climate Change and Health (2, Spring)

Two elective courses from the list below (minimum of 4 credits):

EH 515: Air Quality in the Urban Environment (2, Spring)

EH 543: Sustainability (1, Fall)

EH 570: Environmental Health Law and Policy (2, Spring)

*Only an option for non-EH MPH and EH-EPI students because EH 570 is a required course for those programs.

EH 571: Global Environmental Health Policy (2, Spring)

*Only an option for non-GEH students because EH 571 is a required course for GEH students

EH 572: Environmental Justice: Theory and Public Health Practice (2, Spring)

EH 581: Public Health Consequences of Disasters (2, Fall)

EH 583: Spatial Analysis in Disease Ecology (4, Spring)

EH 584: Built Environment and Public Health (2, Fall)

EH 587: Intro to Satellite Remote Sensing of the Environment and its Applications in Public Health (2, Spring)

EH 590R: Planetary Health (2, Spring)

EH 590R: Politics of Public Health (2, Spring)

EHS 750: Environmental Determinants of Infectious Disease (3, Spring)

GH 538: Food and Nutrition in Complex Humanitarian Emergencies (1, Fall)

EPI 564: Public Health Preparedness and Practice (2, Fall)

GH 569: Population Dynamics, International Development and Health (2, Fall)

Note that not all electives are offered each year; be sure to check Atlas and OPUS for listings.

Complete an Integrative Learning Experience focused on climate and health, (4 credits).

For an ILE to qualify for the Climate and Health Certificate, its focus must be about climate change, including assessing the health impacts of climate change, a climate policy, or the climate impacts of a health policy or intervention. Studies that investigate the current or past association between a weather- or climate-related exposure (e.g., temperature, flooding, etc.) and a health outcome will qualify if substantial effort is made to frame the findings within the context of future climate change. Students with questions about whether their project qualifies should contact the Certificate Director as early as possible.

For more information, visit the Climate and Health website at: <https://www.sph.emory.edu/academics/certificates/climate-health/index.html>.

Certificate in Genetic and Molecular Epidemiology

We are generating genetic and molecular data at a revolutionary pace, and these data are increasingly being integrated into epidemiologic studies. The Genetic and Molecular Epidemiology (GME) certificate program at Rollins prepares students to assess, manage, and analyze these data in a public health context. Graduates of the GME certificate program will have exposure to principles of genetic epidemiology and molecular epidemiology. Through coursework, their Applied Practice Experience, and their Integrative Learning Experience project, students will gain mastery of analysis and interpretation of genetic or molecular data as it applies to public health research.

GME certificate students will complete 13 hours of training through coursework, their Applied Practice Experience, and the Integrative Learning Experience. The course requirements are listed below. Students apply to the GME certificate while enrolled in EPI 510: Introduction to Genetic and Molecular Epidemiology in their first semester. Students may enroll in EPI 510 and apply to the certificate in their second year with the permission of the certificate director.

CERTIFICATE PROGRAMS

Competencies of the Certificate in Genetic and Molecular Epidemiology

Upon completion of the certificate the graduate will be able to:

- Describe how knowledge of the genetic and molecular basis for human diseases can be applied in public health research and practice. Describe the importance of genetic epidemiology and molecular epidemiology to public health.
- Identify key principles and methods for biological sample collection, including informed consent, sample handling, and biobanking (e.g., chain of custody, quality assurance, use of samples and data).
- Describe how genetic and molecular data are generated, including basic knowledge of current laboratory technologies. Describe the latest technologies in molecular and genomic data generation used to investigate disease, pathogenesis, and normal variation of traits. Identify potential sources of error and bias from technical and biological artifacts.
- Recognize how molecular biology, biomarkers, and genetics can be incorporated into the design, analysis, and interpretation of epidemiological studies, including integration of findings from other genetic/molecular studies.
 - a. Describe the major genetic epidemiologic research study designs and their advantages and limitations. Apply knowledge of inheritance to understanding the genetic architecture of diseases and health conditions.
 - b. Describe the major molecular epidemiologic research study designs and their advantages and limitations.
- Justify the roles of epidemiologists, clinicians, basic scientists, bioinformaticians and statisticians in the design, analysis, and interpretation of epidemiological studies that incorporate genetic and molecular data.
- Describe how genetic and molecular tests are deployed in public health practice.
- Interpret and critique published epidemiologic research studies that include genetic and molecular data, including the design and analysis of validation studies (for biomarkers) and/or replication studies (for genetic association studies). Demonstrate the ability to explain, both orally and in writing, the findings, and implications of molecular and genetic epidemiologic studies.
- Describe the legal, ethical, and social issues that may be associated with the collection and application of genetic and genomic information and molecular biomarkers.

Courses Required for the Certificate in Genetic and Molecular Epidemiology

Pre-requisite

EPI 510	Introduction to Genetic and Molecular Epidemiology	1
----------------	--	---

GME Core Courses

EPI 547	Public Health Applications of Molecular Epidemiology	2
EPI 552	Human Genome Epidemiology	2

GME Electives (four credits total)

EH 520	Human Toxicology	3
EH 523	Foundations of Neurotoxicology	1
EH 527	Biomarkers in Environmental Public Health	2
EH 528	The Environment, 'Omics, and Health	2
EH 740	Foundations of Molecular Toxicology	1
EPI 543	Cardiovascular Epidemiology	2
EPI 556	Applied Genomic Epidemiology	2
EPI 561	Methods in Obesity Epidemiology	2
EPI 584	Epidemiology of Cancer	2
EPI 585	Advanced Cancer Epidemiology	2
EPI 591L	Methods in Nutritional Epidemiology	2
GH 571	Vaccines and Vaccine Preventable Diseases	2
BIOS 540	Bioinformatics	2
BIOS 555	High-Throughput Data using R and BioConductor	2

BIOS 570	Methods in Statistical Genetics	2
BIOS 770	Statistical Methods in Human Genetics	3
IBS 746	Graduate Human Genetics (special permission)	4
IBS 593	Population and Quantitative Genetics (special permission)	4

Other courses may also be appropriate with special permission of the certificate director.

Applied Practice Experience	0
Thesis/Capstone	4

For more information, please contact Dr. Yan Sun, program director (yan.v.sun@emory.edu), or Brenda Hardy, program administrator (Brenda.L.Hardy@emory.edu).

Certificate in Complex Humanitarian Emergencies

The Rollins School of Public Health, in partnership with CDC’s Emergency Response and Recovery Branch, offers a Certificate in Complex Humanitarian Emergencies (CHE) for qualified Rollins students. It is an interdisciplinary program that combines the teaching and research strength of Emory University with the applied technical skills of the CDC’s Emergency Response and Recovery Branch.

This is a rigorous and competitive certificate program with approximately twenty-five students who meet the following criteria accepted into the program each year. The ideal candidate for this certificate is a student who:

- Wants to work overseas in emergency and post emergency settings as their career.
- Has international development and/or relevant field experience in humanitarian response and/or low-resource settings.
- Is committed to building practical field epidemiological methods skills in low-resource settings.

Applications are accepted in the Fall of a student’s first year as the program takes two full years to complete. The application and its deadline are posted on the CHE website (www.che.emory.edu) annually in late July.

CHE courses are open to other Emory graduate health schools on a case-by-case basis under the discretion of the program coordinator.

Competencies for the Certificate in Complex Humanitarian Emergencies (CHE)

Upon completion of the certificate the graduate will be able to:

- Utilize data, both qualitative and quantitative, to describe a complex humanitarian crisis in terms of magnitude, person, time, and place.
- Calculate basic epidemiology measures.
- Evaluate the strengths and limitations of epidemiological data within the context of CHE.
- Develop public health programs and strategies responsive to the diverse cultural values and traditions of the community being served.
- Identify internal and external problems that may affect the delivery of essential public health programs.
- Collaborate with communication and informatics specialists in the process of design, implementation and evaluation of public health programs in CHE.

Certificate Requirements

Awarding the certificate requires students to be accepted into the program and then complete:

- Two core classes
- Six credit hours of approved electives
- Three credit hours of approved advanced methods
 - *Note: Students in EPI/GLEPI/EH EPI programs may waive advanced methods requirement (and replace with 3 additional credits of approved electives) through demonstrating*

CERTIFICATE PROGRAMS

mastery of the epidemiologic competencies listed below. Please speak with program coordinator for additional information on documentation of this waiver.

- Applied Practice Experience which addresses a substantive topic in humanitarian emergencies
- Thesis or Capstone which addresses a substantive topic in humanitarian emergencies
 - *Note: With the permission of the certificate coordinator, students who complete a capstone rather than a thesis may take an additional 4 credit hours of approved electives to fulfill the thesis requirement.*
- Fifteen hours of CHE-related volunteer participation

Courses Required

*All courses must be taken for credit and cannot count towards the certificate, as either an elective or advanced method, if they are required for either your degree or concentration

Core Requirements

GH 557	Epidemiological Methods in Complex Humanitarian Emergencies	2
GH 565	Health in Complex Humanitarian Emergencies	2

Elective CHE Courses (Select 6 total elective credit hours)

GH 578	Mental Health in Complex Humanitarian Emergencies	1
GH 581	Risk Communications for Complex Humanitarian Emergencies	1
GH 533	Preparedness and Planning Complex Humanitarian for Emergencies	1
GH 537	Programming for Sexual and Reproductive Health in Complex Humanitarian Emergencies	1
GH 538	Food and Nutrition in Complex Humanitarian Emergencies	1

See CHE website for approved electives outside CHE Certificate Courses listed here

Advanced Methods (Please select a minimum of 3 credit hours)

BIOS 501	Statistical Methods II with lab	4
BSHES 539	Qualitative Data Analysis	3
BSHES 542	Socio-Behavioral Measurement	3
GH 521	Program Management	3
GH 521	Qualitative Methods 1: Data Collection	3
GH 522	Qualitative Methods 2: Data Analysis	3
GH 512	Program Cycle 2: Monitoring and Evaluation of Global Public Health Programs	3
INFO 501	Principles of Public Health Informatics II	2

For more detailed information, please see the CHE website at www.che.emory.edu.

Certificate in Infectious Disease Epidemiology

The Certificate in Infectious Disease Epidemiology (ID EPI) is designed to prepare students to learn how to apply epidemiological methods to study and address infectious diseases and critically assess the science and public health interventions for infectious disease control. Through ID EPI related coursework, an Integrative Learning Experience (thesis or capstone), and Applied Practical Experience (practicum) students will develop the skills and expertise to be competitive for challenging epidemiological careers and/or to pursue a doctoral degree in the field. This certificate program is available to degree seeking master's students in the Rollins School of Public Health. Students are encouraged to talk with their academic advisor about the feasibility of fitting the certificate requirements into their program.

All students currently enrolled in a master’s degree program (MPH, MSPH) at Rollins are eligible to enroll in the certificate program. Students are encouraged to enroll in their first year at Rollins. Applications to the ID EPI certificate program open during the summer before students matriculate at RSPH. If space remains available, students may be able to apply to complete the certificate through the summer between their first and second years. Students interested in the ID EPI certificate program are encouraged to enroll in EPI 512: Current Topics in Infectious Disease Epidemiology [1 Credit - Fall] and EPI 517: Case Studies in Infectious Disease Epidemiology [2 Credits - Fall] in their first semester.

Competencies of the Certificate in Infectious Disease Epidemiology

Upon completion of the certificate the graduate will be able to:

- Describe methodologies and concepts specific to infectious disease epidemiology.
- List the key sources of data in infectious disease epidemiology and biases associated with these data sources.
- Calculate basic infectious disease epidemiology measures.
- Evaluate literature on infectious disease epidemiology, including the study design and methods, validity, transportability and generalizability, and interpretation of the results.
- Identify challenges to investigating, preventing, and controlling endemic and epidemic infectious diseases.

Certificate Requirements

Students earn a certificate by meeting the following requirements:

1. Required Courses:
 - a. EPI 512: Current Topics in ID EPI [1 Credit]
 - b. EPI 517: Case Studies in Infectious Disease Epidemiology [2 Credits]
 - c. EPI 569: Concepts & Methods in ID EPI [3 Credits]
 - d. EPI 570: ID Dynamics: Theories & Models [3 Credit]
2. Elective – 2 credits approved electives
3. Applied Practice Experience: at least 100 hours must be ID EPI-related
4. Integrative Learning Experience: Thesis or Capstone with an ID EPI focus*

Total Required Credit Hours – 11 Credits (15 if ILE is not ID EPI-related)

*If a student’s ILE is not ID EPI-related, they must take 4 additional credits of approved electives. This would be an exception and must be approved in advance by the program director.

For more detailed information about the certificate, including the enrollment process and course roster of approved electives, please see the website at <https://www.sph.emory.edu/academics/certificates/infectious-disease-epidemiology/index.html>

For more information please contact the certificate program administrator at sphepiddept@emory.edu.

Certificate in Maternal and Child Health (MCH)

The Certificate in Maternal and Child Health (MCH) at Rollins aims to equip students to become leaders and professionals in governmental and non-governmental public health organizations serving women, infants, children, and adolescents at local, regional, national, and international levels.

Applicant Criteria

This is a rigorous and competitive certificate program intended for students who are committed to the development and promotion of the MCH field. Applicants should have demonstrated leadership and team player capabilities. Prospective MPH/MSPH students with an interest in maternal and child health from all Rollins departments are eligible to apply for one of approximately 25 slots during the regular admissions process. Students in dual degree or accelerated programs will not be eligible. Certificate takes 4 semesters to complete. Information about the program and the certificate requirements are available at: <http://mch.emory.edu/>.

CERTIFICATE PROGRAMS

Application Deadline

Prospective students should indicate an interest in the MCH Certificate on their SOPHAS application. Interested students should apply to Rollins by the school's priority deadline. A supplemental application will be sent by email.

If you have specific questions about the MCH Certificate Program, please contact Eve Rose at mch@emory.edu. More general information is available at www.mch.emory.edu.

Competencies of the Certificate in Maternal and Child Health

Upon completion of the certificate, the graduate will be able to:

- Use data to identify issues related to the health status of a particular MCH population group, describing health disparities within MCH populations, and offering strategies to address them.
- Demonstrate the use of a systems approach to explain the interactions among individuals, groups, organizations, and communities.
- Use self-reflection techniques effectively to enhance program development, scholarship, and interpersonal relationships, recognizing that personal attitudes, beliefs, and experiences (successes and failures) influence one's leadership style.
- Identify ethical dilemmas and issues that affect MCH population groups.
- Describe the ethical implications of health disparities within MCH populations with an awareness of ethical issues in patient care, human-subjects research, and public health theory and practice.
- An awareness of ethical issues in patient care, human-subjects research, and public health theory and practice.
- Initiate and act as a catalyst for the discussion of these dilemmas and issues. Conduct personal self-assessments regarding cultural competence, assessing strengths of individuals and communities and responding appropriately to their needs based on sensitivity to and respect for their diverse cultural and ethnic backgrounds and socioeconomic status.
- Describe strategies to assure culturally sensitive public health and health service delivery systems, integrating cultural competency into programs, research, scholarship, and policies.
- Operationalize the "family-centered care" philosophical constructs and use these constructs to critique and strengthen practices, programs, or policies that affect MCH population groups.
- Describe how family perspectives play a pivotal role in MCH research, clinical practice, programs, or policy.
- Recognize and create learning opportunities for others.
- Participate in a mutually beneficial mentoring relationship.
- Identify strengths of team members appropriate to a given task and facilitate group processes for team-based decisions valuing and honoring diverse perspectives.
- Participate in basic strategic planning processes such as developing a mission, vision, strategic goals, and activities, identifying community stakeholders and their level of engagement in the collaboration process.
- Understand the roles and relationships of groups involved in the public policy development and implementation process, including the branches of government.
- Analyze the potential impact of policies on diverse population groups.
- Use data, levels of evidence, and evaluative criteria in proposing policy change.
- Frame problems based on key data, including economic, political, and social trends that affect the MCH population.

Certificate Requirements

Awarding the certificate requires students to be accepted into the program and then complete:

- 3 core courses (6 credits)
- 1 Life Course selective course (2-3 credits)
- 1 Management & Policy Selective (2-3 credits)
- Applied Practical Experience (APE) and Integrated Learning Experience must be MCH-related

Required Core Courses

EPI/BSHES/HPM/GH 596:	Foundations in Maternal and Child Health	3
EPI 508R:	Maternal and Child Health Collaborative Leadership Seminar	1
BSHES/EPI 509:	Health Equity in Systems of Care for Children with Special Health Care Needs	2

Life Course Selective (Select 1 course; 2-3 credits)

GH 546	Maternal and Child Nutrition	3
GH 552	Global Elimination of Micronutrient Malnutrition	2
EPI 565	Data Sources and Methods for MCH Epidemiology	2
GH/EPI 566	Immunization Programs and Policies	2
BSHES 517	Adolescent Health	2
EPI 532/GH 550	Epidemiology and Dynamics of HIV/STD Transmission	2
EPI 746	Reproductive Epidemiology <i>EPI 530 or 504 are prerequisites</i>	2
GH 577	Global Elimination of Maternal Mortality from Abortion Seminar	2
GH 539	Reproductive Health Program Management	2
GH 541	Technology of Fertility Control	2
GH 559	Gender and Global Health	2
GH 563	AIDS: Global Public Health Implications	2
GH 588	Religion and Health: Sexual and Reproductive Health	2
GH 571	Vaccines and Vaccine Preventable Diseases	2
GH 596	Population Dynamics, International Development, and Health	2
EPI 516	Issues in Women's Health <i>EPI 530/504 and BIOS 500 are prerequisites</i>	2
HPM 569	Women's Health Policy: A Lifecycle Approach	3

*Management & Policy Selective (2-3 credits)**

HPM 502	Introduction to Healthcare Management	2
GH 589	Global Health Program Management	3
GH 537*	Programming in Sexual and Reproductive Health in Humanitarian Emergencies	1
GH 512	Monitoring and Evaluating Global Health Programs	3
HPM 510	Financial Accounting	3
HPM 521	Introduction to Health Economics	3
HPM 533	Qualitative Methods for Health Services Research	3
HPM 553	Pharmaceutical Economics and Policy	3
HPM 554	Quality Improvement Methodologies for Health Care	3
HPM 555	Health Care Management in the Outpatient Setting	3
HPM 562	Health Insurance Concepts	3
HPM 565	Health Care for the Indigent	2
HPM 569	Women's Health Policy: A Lifecycle Approach	3
HPM 577	Mental Health/Medical Interface in the United States	3

**This course is 1 credit and cannot by itself satisfy the requirement.*

CERTIFICATE PROGRAMS

Certificate in Public Mental Health

Mental health is integral to and inseparable from public health. This interdepartmental program addresses the interface of mental health and public health and is intended to enhance the competencies of students concentrating in any of the school's departmental programs. Students completing the program will be able to describe the epidemiologic burden of mental illness on society, apply theories and evaluate empirical evidence on determinants of mental health, design and critique interventions intended to promote mental health, and identify the sources of financing and public policies that affect mental health services.

Competencies of the Certificate in Mental Health

Upon completion of the certificate, the graduate will be able to:

- Describe the epidemiologic burden of mental illness on US and global populations.
- Describe the major theories on the etiology of mental illness or categories of mental illness.
- Evaluate empirical evidence on social determinants of mental illnesses or categories of mental illness.
- Describe how cultural differences affect the experience of mental illness and the seeking of health services.
- Identify population-based interventions that would reduce the onset of mental illnesses or categories of mental illness.
- Describe how populations in the US receive and finance mental health services.
- Identify policy initiatives that would improve access to mental health services in the U.S.
- Identify gaps in coverage for mental health services in the US and global settings and their consequences for mental health.

Certificate Requirements

- Prerequisite: BSHES 585 Introduction to Public Mental Health, 1 credit hour
- BSHES 592/HPM 592, Case Studies in Public Mental Health, 2 credit hours
- This is a required course for all MPH or MSPH students enrolled at Rollins who plan to pursue the Certificate in Mental Health. Participating certificate students will be identified based on their enrollment in this course. Students in the course will work in interdisciplinary teams to examine and provide solutions to real-life public mental health problems while interacting with experts from the field.
- Applied Practice Experience (a minimum of 200 hours) must comprise elements of public mental health
- Thesis or capstone project (Integrative Learning Experience) on topic in public mental health*
- A minimum of 5 credit hours from the following courses or courses approved by Dr. Benjamin Druss or Dr. Delia Lang:
 - BSHES 565 Violence as a Public Health Problem, 2 credit hours
 - BSHES 583 Mindfulness and Health, 1 credit hour
 - BSHES 584 Mental Health/Medical Interface, 2 credit hours (cross-listed with HPM 577)
 - BSHES 586 Prevention of Mental and Behavioral Disorders, 2 credit hours
 - EH 580 Injury Prevention and Control, 2 credit hours
 - EPI 589 Psychosocial EPI, 2 credits hours
 - GH 578 Mental Health in Complex Humanitarian Emergencies, 1 credit hour
 - GH 583 Introduction to Global Mental Health, 2 credit hours
 - HPM 563 Long Term Care Policy and Practice, 2 credit hours
 - SOC 330 Mental Health and Well-Being, 4 credit hours
 - SOC 513, Perspectives on Mental Health, 2 credit hours
 - Any 500 level or above Psychology classes

*If the topic of the capstone or thesis cannot relate to public mental health, four additional credits of elective courses with a focus on mental health may be substituted with the permission of the certificate coordinator. Permission for the substitution must be obtained early in the second year of the program. For more detailed information about the certificate including the enrollment process, please see the website at <https://www.sph.emory.edu/academics/certificates/certificate-mh/index.html>.

Certificate in Social Determinants of Health

The Certificate in Social Determinants of Health (SDOH) welcomes students who are committed to studying and intervening in the social conditions (e.g., neighborhood poverty rates, structural racism) that shape health and well-being across and within populations.

This certificate program provides a range of intellectual, academic, research, and professional development opportunities designed to strengthen students' abilities to pursue related careers. Students committed to advancing social justice and/or to eradicating health disparities will find this certificate program a particularly good fit for their interests.

All students currently enrolled in a master's degree program (MPH, MSPH) at Rollins are eligible to enroll in the certificate program. Students are encouraged to enroll in their first year at Rollins, though it may be possible to complete the certificate requirements if students enroll at the beginning of their second year. Students apply to the SDOH certificate while enrolled in EPI 511: Social Determinants of Health Seminar in their first semester. Students may enroll in EPI 511 and apply to the certificate in their second year with the permission of the certificate director.

Competencies of the Certificate in Social Determinants of Health

Upon completion of the certificate the graduate will be able to:

- Identify the causes of social and behavioral factors that affect health of individuals and populations.
- Describe the role of social and community factors in the onset and solution of public health problems.
- Describe the merits of social and behavioral science interventions and policies.
- Specify multiple targets and levels of intervention for social and behavioral science programs and policies.
- Critically evaluate the epidemiologic literature.
- Formulate a testable hypothesis to determine an appropriate study design concerning the etiology and control of health problems.

Certificate Requirements

Students earn a certificate by meeting the following requirements:

- a. Take the following core courses, and earn a grade of at least a B+:
 - EPI 511 SDOH Seminar (1 credit)
 - EPI 591S Social Epidemiology (2 credits)
- b. Take 6 additional credits from the approved elective list, or other electives may be eligible upon approval by the director, listed on the course roster and earn a grade of at least a B+. These courses cannot be used to meet the core course requirements of the student's degree program.
- c. Complete an Applied Practice Experience (APE) on a topic related to social determinants of health.
- d. Complete a capstone project or thesis on a topic related to social determinants of health.
 - At least one research question or aim must pertain to a SDOH factor.
 - Abstracts of the final projects must be submitted to the certificate committee for review and approval.

For more detailed information about the certificate, including the enrollment process and course roster of approved electives, please see the website at <https://www.sph.emory.edu/academics/certificates/socio-contextual-determinants-health/index.html>.

For more information, please contact Dr. Julie Gazmararian, program director (jagazma@emory.edu), or Brenda Hardy, program administrator (Brenda.L.Hardy@emory.edu).

Certificate in Water, Sanitation, and Hygiene

The Certificate in Water, Sanitation, and Hygiene (WASH) at the Rollins School of Public Health is offered through the Center for Global Safe WASH at Emory University and aims to train graduate students to be competitive for WASH-related careers. This is a rigorous, self-guided certificate program open to all Rollins students.

CERTIFICATE PROGRAMS

Competencies of the Certificate in Water, Sanitation, and Hygiene

Upon completion of the certificate program, the student will be able to:

- Describe the multidisciplinary nature of WASH-related issues.
- Practice WASH-related laboratory methods.
- Examine potential solutions for WASH-related challenges at the household and community level.
- Recognize the role in policy in shaping the WASH landscape.
- Identify entities working in the WASH sphere.
- Generate WASH-related knowledge through practice by completing:
 1. An Integrative Learning Experience (capstone or a thesis), and
 2. A WASH-related field experience (applied practice experience or GFE)

Certificate Requirements

- Complete a minimum of 12 credit hours of WASH-related coursework (including the ILE), with at least one methods-related course and one biology-related course.
- Maintain a cumulative GPA of 3.3 or greater in all WASH-related courses.
- Attend two CGSW-sponsored seminars per year (four total).
- Successfully complete a WASH-related applied practice experience.
- Successfully complete a WASH-related Integrative Learning Experience (capstone or thesis).

For more detailed information, including contact information, course schedules, and forms, please see the WASH Certificate website at <http://www.cgswash.org/for-students/wash-certificate/>.



Special Programs

Scholars in Action

The Scholars in Action program allows Rollins students to contribute to the professional education of the Rollins community (e.g. faculty, staff, students, and community partners), relate academic experiences to the resolution of contemporary public health issues, and discuss public health issues from interdisciplinary perspectives. The goals of the Rollins School of Public Health Scholars in Action program are: (1) Rollins will have mutual, sustainable relationships with local and global community partners; (2) Rollins Student Services will manage a premier, student-run leadership/community engaged learning program and community for merit scholars, differentiating Rollins from other peer institutions; and (3) Rollins alumni will apply skills learned from Scholars in Action in local and global communities after graduation.

The Scholars in Action Program is a leadership opportunity that students may integrate into their experience at RSPH. They may choose to become involved in Scholars in Action by engaging in one of four committees:

- **Service Committee:** Collaborates with university and community partners to plan regular service opportunities and implement Days of Service for Scholars in Action members and RSPH faculty, staff and students.
- **Professional Development and Social Committee:** Builds community among SIA members by hosting events and collaborates with RSPH Departments and other partners and stakeholders to implement professional development seminars for the RSPH Community.
- **Collaborates** with RSPH Departments and other partners and stakeholders to implement professional development seminars for the RSPH Community.
- **Annual Book Discussion Committee:** Plans the Scholars in Action Annual Book Discussion, which takes place between January - February every year.
- **Rollins Election Day Initiative:** A nonpartisan group of Scholars in Action and RSPH students who collaborate with the Emory Votes Initiative and faculty, staff, and students to promote civic engagement within the RSPH Community.

Returned Peace Corps Volunteers

Returned Peace Corps Volunteers (RPCV) bring a unique perspective and skill set to the study and application of public health, and are recognized as a vital part of the Rollins student body. There is a vibrant and thriving Peace Corps community at the Rollins School of Public Health at Emory University with over 70 RPCVs enrolled in the MPH program. The perspective that Peace Corps experience offers is valued in and out of the classroom. Rollins grants a \$15,000 tuition scholarship to all admitted, full-time RPCV students working toward their MPH or MSPH degree.

Paul D. Coverdell Fellowship for Returned Peace Corps Volunteers

Returned Peace Corps Volunteers pursuing a career in public health are eligible for the Paul D. Coverdell Fellowship. The Paul D. Coverdell Fellowship advances the third goal of the Peace Corps, to help promote a better understanding of other peoples on the part of Americans by developing and maintaining educational partnerships that place returned volunteers in internships in underserved U.S. communities. Furthermore, it supports Rollins' mission by creating an environment supporting excellence in service, and training public health leaders to promote health and prevent disease in human populations around the world.

In order to be considered for the fellowship, applicants must be admitted to any department for the MPH/MSPH degree program and indicate their Returned Peace Corps Volunteer status on their SOPHAS application. An applicant must submit a completed SOPHAS application by the school-wide priority deadline. Once an eligible applicant's SOPHAS application is received by Rollins, they will be sent the Paul D. Fellowship Supplemental Application. Supplemental applications are reviewed by the current RSPH Coverdell Fellow Class and the RSPH Coverdell Fellowship Program Administrators. This program requires 2 years (4 fall/spring semesters) of full-time enrollment at

SPECIAL PROGRAMS

Rollins in order to fulfill the additional job responsibilities associated with the fellowship. Rollins greatly values the experience, perspective and service of all RPCV students. Those selected as Paul D. Coverdell Fellows receive an award package including partial tuition scholarship, Rollins Earn and Learn award, and an applied practice experience award. The award package is provided to Coverdell Fellows in order to facilitate community-engaged learning programs and to coordinate activities on campus in the Atlanta community.

The Paul D. Coverdell Peace Corps Fellows are members of the Scholar in Action Program, and are required to complete a 150-hour internship by the time they graduate. The requirements for the internship include:

- **Complete 30 Service Hours with a community partner each semester:** Collaborate and foster relationships with at least one of our community partner organizations;
- **Complete 10 Coverdell Project Hours each year:** Choose from a “menu” of projects to work on. Examples of project items include planning and hosting a student organization event, participating in a Scholars in Action Committee, hosting community-building events with Coverdell Fellows throughout Emory University, participating in the RSPH Community & Diversity Committee, etc.
- **Attend 6 Professional Development Sessions hours each year through Scholars in Action:** These professional development sessions will take place during monthly Scholars in Action meetings or Career Development sessions.
- **Participate in the Coverdell Recruitment Process each year:** Collaborate with fellow Coverdell participants to select the incoming cohort of Coverdell Fellows.

AmeriCorps/Service Corps Student Leaders

The Rollins School of Public Health greatly values the experiences, perspectives, and service of students connected to AmeriCorps and national service. In recognition of the ongoing commitment to service and leadership at Rollins, a one-time \$7,000 award is offered to admitted students in any department who have completed a minimum of one year of service (1,700 full-time hours) with a national volunteer agency like AmeriCorps or an AmeriCorps-affiliated agency.

First-Gen at Rollins

As of 2022, the Rollins School of Public Health is currently transitioning the Gates Millennium Scholars at Rollins (GMS@Rollins) to expand its program offerings to reach all first-generation students at the school. First-Gen at Rollins is a unique, pilot program that provides opportunities for service, community-building, and professional development for first-generation students at the Rollins School of Public Health.

Global Peer Network (GPN)

The Rollins School of Public Health Global Peer Network promotes cross-cultural relationships for all RSPH students and seeks to form a community among international students and their peers. Through this program, international and domestic students can develop and enhance skills related to intercultural communication and cultural sensitivity. Additionally, they establish relationships with campus resources that serve international students, including International Students and Scholar Services, Emory Campus Life Offices, and other student organizations.

Doctoral Programs

PUBH 700 (0) Public Health Foundations

This course provides a broad introduction to public health for doctoral students with no MPH/MSPH.

PUBH 701 (1) Public Health Research: Discovery to Practice

Doctoral education in public health trains students to drive innovation and discovery in public health. Apart from the usual doctoral milestones of coursework, the qualifying exam, and the dissertation, much of the doctoral process is self-directed. Identifying your goals for your doctoral experience and how to achieve them can be daunting. This conversation-based course is designed to provide students the tools to develop a personal strategy for successfully navigating the doctoral experience.

Doctoral programs are offered by the Departments of Behavioral, Social, and Health Education Sciences; Biostatistics and Bioinformatics; Gangarosa Department of Environmental Health; Epidemiology; Health Policy and Management; and Hubert Department of Global Health through the Laney Graduate School. Additionally, Global Health & Development and Nutrition Health Sciences are interdepartmental program also offered through the Laney Graduate School. Information about the programs, requirements for admission, and application procedures are available from the Laney Graduate School, Emory University, Atlanta, GA, 30322, by telephone at 404.727.6028 or on the web at www.graduateschool.emory.edu. Information is also available from the directors of each doctoral program in the Rollins School of Public Health. Also refer to <https://www.sph.emory.edu/academics/doctoral-programs/index.html> for specific information.

Behavioral, Social, and Health Education Sciences:

Jessica Sales, PhD
Director of Graduate Studies

Brandi Harper
Program Administrator
404.727.9868, brandi.harper@emory.edu

Biostatistics:

Robert Lyles, PhD
Director of Graduate Studies

Angela Guinyard
Assistant Director of Academic Programs
404.712.9643, angela.guinyard@emory.edu

Environmental Health Sciences:

W. Michael Caudle, PhD
Director of Graduate Studies

Angela Rozo
Graduate Program Coordinator
404.712.8072, arozo@emory.edu

Epidemiology:

Ashley Naimi, PhD
Director of Graduate Studies

Noni Bourne
Sr. Associate Director of Academic Programs
404.727.8729, noni.bourne@emory.edu

Health Services Research and Health Policy:

David Howard, PhD
Director of Graduate Studies

Kent Tolleson
Program Administrator
404.727.3211, ktolles@emory.edu

Nutrition and Health Sciences (Collaborative Program):

Mary Beth Weber, PhD
Co-Director of Graduate Studies

Jean Welsh, RN, PhD
Co-Director of Graduate Studies

Melissa Young, PhD
Program Recruiter

Joan Lynfatt
Program Coordinator
404.727.5552, jalynfatt@emory.edu

Global Health and Development:

James Lavery, PhD
Director of Graduate Studies

Joan Lynfatt
Program Coordinator
404.727.5552, jalynfatt@emory.edu

COLLABORATIVE PROGRAMS

Collaborative Programs

Master of Science in Clinical Research

www.georgiactsa.org

Henry M. Blumberg, MD

Program Director

The Georgia Clinical and Translational Science Alliance (NIH-funded CTSA), presents the Master of Science in Clinical Research (MSCR) degree program through Laney Graduate School. This program provides didactic and mentored clinical and translational research training. The goal of this degree is to provide the educational background for physicians and other doctoral scientists who need and desire the analytic and related skills for clinical investigation. It teaches modern clinical scientific research methods that involve investigative and evaluative medicine and addresses the national shortage of skilled clinical research physicians. The CTSA has made it possible to expand the program to include pre-doctoral trainees and award the dual degrees of MD/MSCR and PhD/MSCR.

The program provides training in analytic epidemiology, analytic and statistical reasoning; hypothesis development; data collection and management; scientific writing; clinical trial protocol design for interventional and observational studies; and legal, ethical, social, and regulatory issues related to clinical research.

Requirements

The program requires the completion of 30 semester hours of academic credit. This includes in-class didactic study, grant application, and a research thesis. Although many in this course of study have clinical and other obligations, full-time students normally devote approximately 40 hours per week for class-related activities. Most students complete the program in two years. Didactic work is scheduled in afternoons to facilitate those with patient clinical commitments.

Required Courses for the Master of Science in Clinical Research

Fall Semester	Course Title	Credit Hours
MSCR 500	Biostatistics for Clinical Research	3
MSCR 530	Analytic Methods for Clinical Research I	3
MSCR 533	Data Management	2
MSCR 761	Introduction to Clinical & Translational Research	2
MSCR 591	Community Engagement and Health Disparities in Clinical & Translational Research	1
MSCR 595	Health Services Research	1
MSCR 598	Big Data to Knowledge (BD2K)	1
Spring Semester	Course Title	Credit Hours
MSCR 534	Analytic Methods for Clinical Research	3
MSCR 536	Analysis and Presentation of Clinical Research Data	2
MSCR 592	Clinical Research Colloquium	1
MSCR 509	Overview of High Dimensional Data Analysis	2
MSCR 593	Ethical, Legal and Social Issues of Responsible Clinical Research	1
MSCR 520	Clinical Trial Design and Analysis	2
MSCR 594A	Scientific and Grant Writing	1
Fall Semester	Course Title	Credit Hours
MSCR 594B	Scientific and Grant Writing (fall semester, second year)	1
Summer Semester	Course Title	Credit Hours
RES599MSCR	Research	4
Total Hours for Degree		30

Administration and Application Information

The program director is Henry M. Blumberg, MD, professor of medicine, epidemiology and global health, Division of Infectious Diseases, Emory School of Medicine. The Master of Science in Clinical Research program is supported by the National Institutes of Health Clinical and Clinical and Translational Science Award (CTSA).

To learn more about the admission process, contact Cheryl Sroka, program coordinator at 404.727.5096 or email: csroka@emory.edu.

The Emory Graduate Certificate in Human Rights

The Institute of Human Rights at Emory provides an opportunity for faculty and students to further their understanding of the theories and issues of human rights. The Emory Graduate Certificate in Human Rights is an integrated, innovative, and cooperative approach to human rights scholarship and training. The certificate combines the teaching and research strength of Emory University with the applied programs of our professional partners, including CARE USA, The Carter Center, and the U.S. Centers for Disease Control and Prevention. Faculty in several schools at Emory, including Emory College, Laney Graduate School, the School of Law, the Rollins School of Public Health, Goizueta Business School, the Nell Hodgson Woodruff School of Nursing, and the Candler School of Theology have been involved in building an academic human rights program at Emory.

This is a self-guided certificate which allows students flexibility in the completion of certificate requirements. However, students are encouraged to meet with one of the program's faculty members for advisement on their course of study.

Competencies:

Upon completion of the graduate certificate in human rights, students will be able to:

1. Understand the interdisciplinary nature of human rights; and
2. Evaluate human rights policies across disciplines

Certificate Requirements:

Awarding of the certificate requires students to complete the following:

- Core Seminar: Interdisciplinary Perspectives on Human Rights (ES585/ GH526/ LAW819/ POLS585). This foundational, three-credit-hour course is usually taken in the Fall Semester of an MPH student's second year and examines the theory and practice of global and human rights from an interdisciplinary perspective.
- Additional approved courses: MPH students in the Rollins School of Public Health are required to take a total of six additional credits from the approved course listing available by contacting dabney.evans@emory.edu or on degree tracker. Each course on this list has substantive human rights components as part of its curriculum. Doctoral level students must take a total of nine additional credit hours. Applied Practice Experience: Students must complete an Applied Practice Experience (APE) with a substantive human rights component. APEs must fulfill all RSPH requirements including development of deliverables for the APE partner agency. The Institute of Human Rights helps coordinate placements, if requested.
- Culminating Experience: Students must complete a culminating experience or thesis with a substantive human rights emphasis. For students who complete a capstone for their department, please reach out to the certificate administrator for additional options to fulfill this requirement.

Please note, both APE and Culminating Experience requirements must be approved by certificate administrator to count towards fulfillment of the human rights certificate.

Additional information about the Institute of Human Rights and the graduate certificate in human rights may be found on their website at <http://humanrights.emory.edu/sub-educational.htm#ge>.

COLLABORATIVE PROGRAMS

Certificate in Injury and Violence Prevention

The Certificate in Injury and Violence Prevention is designed to give MPH, PhD, and Candler students a foundation in theoretical and epidemiologic concepts of injury prevention and a platform for which to examine the causes, consequences and prevention strategies used in our society. Combining multidisciplinary coursework, research, practical experience, and access to a vast injury prevention network, this certificate will broaden students' perspective on complex issues while preparing them to become leaders of injury prevention within their chosen discipline.

Key Components of the Certificate

1. Two core courses:
 - Injury Prevention and Control, EH 580/BSHE 591M (2 credits)
 - Violence as a Public Health Problem, BSHE 565 (2 credits)
2. Elective courses equivalent to 5 credit hours (One elective must be cross-listed at another Emory school)
3. An integrative paper/thesis/capstone in the area of injury/violence prevention;
4. Applied practice/field component in the area of injury/violence prevention
5. Attend four IPRCE hosted or co-hosted injury lectures (this includes live webinars, brown bags, or presentations)

For additional information, students may contact Dr. Dorian Lamis; dorian.lamis@emory.edu and/or visit our website: <http://iprce.emory.edu/education-training/certificate-program.html>.

Religion and Health Certificate

The Certificate in Religion and Health provides an opportunity for the interdisciplinary study of the intersections of health and religions. Perspectives from a variety of disciplines in the health sciences and the social sciences, particularly those in public health, are brought into dialogue with those from theology and religion to assist students in developing theories and practices about personal, communal, institutional, and social dimensions of health.

Key Components of the Certificate

This is a certificate for degree-seeking students and provides a structure to take two courses outside their primary degree school and to tailor existing academic requirements. These requirements include:

1. One of two core courses;
2. Attendance and participation at the annual RPHC Community of Scholars reception at the beginning of each academic year;
3. An integrative paper/thesis/capstone;
4. Elective courses equivalent to 9 credit hours (Rollins thesis credit hours can be used here);
5. Applied practice/field component in religion and health that fits the requirements in the discipline which the student is enrolled; and,
6. Participation in University-wide special lectures and seminars in religion and health.

For additional information, students may contact Mimi Kiser in the Rollins School of Public Health, mkiser@emory.edu, www.rphcemory.org.

Biostatistics Collaboration Core

The Biostatistics Collaboration Core (BCC) is housed in the Department of Biostatistics and Bioinformatics at the Rollins School of Public Health of Emory University. BCC team members include faculty, staff and students from that Department. Azhar Nizam, Research Professor in Biostatistics and Bioinformatics, is the Director of the BCC.

The BCC offers fee-based comprehensive statistical and bioinformatics collaboration services to researchers at Rollins, other Woodruff Health Sciences Center divisions, and throughout Emory University and Emory Healthcare. BCC personnel are available for discussion at all stages of research, including preparation of grants and contracts, assistance in analyzing and presenting research data, and statistical review of manuscripts in the publication process.

The BCC has access to a broad range of computer hardware, software, and personnel with expertise in using statistical analysis, graphics, and data management apps. While our primary interest is in assuring the appropriate use of statistical methodology in research, the BCC also offers a complete range of services from database development, implementation, and maintenance, to the production of publication-quality graphic and tabular material to support the presentation and publication of research results.

BCC collaborations typically are completed within three to nine months. Each collaboration has a fixed cost based on the size and scope of the required work. Further information about BCC rates can be found at <https://www.cores.emory.edu/bcc/services/index.html>.

Obtaining biostatistical advice early on in a project can often improve the chances of meeting study objectives. While the BCC team members can also assist with analyses of already-collected data, we encourage investigators to connect with the BCC during the planning stage of a study, before data collection, whenever possible.

Researchers who are interested in initiating a collaboration with the BCC should send a request to bcc@emory.edu.

Center for AIDS Research at Emory University

Funded by the National Institutes of Health, the Center for AIDS Research at Emory University (Emory CFAR) is the hub of a multidisciplinary community of science that has brought Rollins and Emory to international prominence as a center of excellence in HIV research. Under the shared leadership of, Leon L. Haley Jr. MD Distinguished Professor of Medicine and Interim Dean, Emory University School of Medicine Carlos del Rio, MD Professor of Pediatrics, Division of Infectious Diseases, Ann Chahroudi, MD, PhD, and Associate Professor of Medicine, Infectious Diseases and Associate Dean for Research, Emory at Grady Colleen Kelley, MD, MPH, the Emory CFAR has three main goals: (1) To advance groundbreaking HIV research across the scientific spectrum to end the epidemic for all and promote health equity; (2) to cultivate cutting-edge tools and services to support transdisciplinary research teams; (3) to develop and train the next generation of excellent and diverse HIV investigators, and (4) to elevate multidirectional community stakeholder engagement to improve the well-being of people living with and at risk for HIV across their lifespan. Emory CFAR currently serves over 200 HIV investigators across the university whose federally funded HIV research totals approximately \$74 million annually. Emory CFAR supports seven core facilities two of which are located at Rollins: Prevention and Implementation Sciences, and Biostatistics & Bioinformatics. The Emory CFAR welcomes Rollins student involvement in Emory CFAR-supported activities and events. For more information, go to cfar.emory.edu.

Center for Biomedical Imaging Statistics

The Center for Biomedical Imaging Statistics (CBIS) conducts research on statistical methods for analyzing data from biomedical imaging studies. CBIS's research and collaborations have primarily focused on brain imaging. Additionally, we have worked in cardiac imaging and in cancer applications, including brain tumor, breast, and prostate cancer imaging, among others. CBIS currently develops statistical methods for data acquired from various imaging modalities including functional magnetic

CENTERS

resonance imaging (fMRI), structural magnetic resonance imaging (sMRI), diffusion tensor imaging (DTI), positron emission tomography (PET), near-infrared spectroscopy (NIRS), single photon emission computed tomography (SPECT), digital mammography (DM), electroencephalography (EEG), computed tomography (CT), and magnetic resonance spectroscopic imaging (MRSI). CBIS Director is Ying Guo, PhD, Professor of Biostatistics and Bioinformatics. For further information go to <http://web1.sph.emory.edu/bios/CBIS/>.

Center for Global Safe Water Sanitation and Hygiene (WASH)

The Center for Global Safe WASH (CGSW) at Emory University conducts applied research, monitoring and evaluation, and training and capacity building to promote global health equity through universal access to safe water, sanitation, and hygiene solutions for the world's most vulnerable populations. Established in 2004, the CGSW includes over 50 faculty, doctoral fellows and research staff, and more than 50 PhD and MPH/MSPH students from Rollins. Faculty, staff, and students join in research and practice around the CGSW's principal mission of enabling organizations and communities to provide effective and sustainable solutions and programs for safe drinking water, sanitation and hygiene improvements. Many CGSW activities are in partnership with CARE USA, the CDC, The Carter Center, The Task Force for Global Health, and the Georgia Institute of Technology as the primary members of the related Atlanta Consortium for Safe WASH.

CGSW projects are multidisciplinary and address a wide range of U.S. domestic and global WASH topics: water reuse, equity of WASH access, WASH in schools, WASH in slums, WASH in health care facilities, WASH and neglected tropical diseases, menstrual hygiene management, WASH and climate change, etc. Center faculty and staff have ongoing research projects in approximately 18 countries. In 2012, the CGSW introduced the Graduate Certificate in Water, Sanitation, and Hygiene at the Rollins School of Public Health. The WASH Certificate is a rigorous, self-guided certificate program that prepares Rollins students for WASH-related careers.

Students trained by faculty and experts associated with the CGSW learn how to: conduct water and sanitation research, implement interventions, provide WASH training, and evaluate and monitor WASH programs in the U.S. and overseas. Courses and Applied Practice Experiences equip students with the essential skills to design, implement, and evaluate water and sanitation technologies, interventions, programs, and policies. The CGSW Director is Christine Moe, PhD, Eugene J. Gangarosa Professor of Safe Water and Sanitation, in the Hubert Department of Global Health. For additional information about the CGSW and/or the Graduate Certificate in WASH, please visit cgswash.org.

Center for the Health of Incarcerated Persons

The Center for the Health of Incarcerated Persons intends to improve the health of those passing through correctional facilities; to promote the conduct of ethically responsible and scientifically rigorous health research in prisons, jails, and post-incarceration settings; and to promote collaboration among researchers with an interest in correctional health. Members include Rollins faculty, pre- and postdoctoral students, investigators and staff at correctional institutions, health professionals, and leaders of community-based organizations. The center director is Anne C. Spaulding, MD, MPH, associate professor in the Department of Epidemiology.

Center for Humanitarian Emergencies at Emory (CHE@Emory)

The Center for Humanitarian Emergencies at Emory (CHE@Emory) drives global collaboration, research, and evidence-based training to improve the lives and well-being of populations impacted by humanitarian emergencies. The CHE@Emory combines Rollins' teaching and research strength with the applied technical skills of CDC's Emergency Response and Recovery Branch (ERRB). Synergistically, the CHE@Emory offers a variety of programs designed to increase domestic and international capacity for effective response to complex humanitarian emergencies. These programs include:

1. A Certificate in Complex Humanitarian Emergencies open to Rollins School of Public Health students on a competitive basis;
2. In-person and online technical training for both entry level and mid-level career responders across

- various core skills and emerging approaches utilized in emergencies;
3. Technical assistance to implementing partners in key areas of expertise including sexual and reproductive health, maternal and newborn health, gender-based violence, monitoring and evaluation, as well as other key areas of public health and human rights; and,
 4. Humanitarian research designed to close the evidence gap on best practices across diverse complex humanitarian emergency settings and affected populations.

Notably, CHE@Emory has a large cadre of technical experts in global humanitarian emergencies which includes approximately 20 technical experts from ERRB serving as adjunct faculty in the Hubert Department of Global Health. Together, Emory and CDC share a joint vision of improving the lives of populations impacted by global humanitarian emergencies. The Center Director is Dabney Evans, PhD, MPH, associate professor in the Departments of Behavioral, Social, and Health Education Sciences and the Hubert Department of Global Health.

Center for Public Health Preparedness and Research

The mission of the Center for Public Health Preparedness and Research (CPHPR) is to advance the art and science of public health practice and identify policies and tools that enable communities to prepare for, respond to, and recover from emerging infectious diseases, terrorism, and other public health threats.

The CPHPR was established at Rollins in January 2002 as an academic center for training, research, and service with funding from the O. Wayne Rollins Family Foundation. The Center's director, Dr. Allison Chamberlain, teaches EPI: 564: Public Health Preparedness and Practice annually and serves as academic advisor to the Emory Student Outbreak Response Team. In June 2020, the CPHPR began hosting the Emory Covid-19 Response Collaborative (<https://emorycovidcollaborative.org/>), an initiative funded through a grant from the Robert W. Woodruff Foundation to enable Rollins faculty, staff, and students to engage in supporting our state and local health departments in COVID-19 response activities.

Previous CPHPR grants have included National Institutes of Health-funded behavior-based training for individuals working in high-level (BSL3 and BSL4) biocontainment laboratories, the CDC-funded Emory Preparedness and Emergency Response Research Center, and the CDC/ ASPPH-funded Emory Public Health Preparedness Translation and Dissemination Initiative. For more information, please visit the center website <http://cphpr.emory.edu/>

Center for Reproductive Health Research in the Southeast (RISE)

RISE seeks to improve reproductive health and equity of people in the US Southeast through transdisciplinary research that informs social, systems, and policy change. Our work is inclusive of multifaceted stakeholders accountable to reproductive health, rights, and justice (RHRJ) in the US Southeast, and we train future professionals at all educational levels to go into RHRJ fields with knowledge of research and its utility in their work. We also aim to increase the praxis of research justice by conducting and building capacity for stakeholder-centered and participatory research.

We believe that reproductive health in the Southeast cannot be attained without dignity, respect, compassion, and fair treatment for all people, including acknowledgement of both historical and contemporary injustices by gender, race, class, and other socially constructed categorizations. Additional information may be found on the website at <https://rise.emory.edu/>.

Center for Spina Bifida Prevention

Based at the Rollins School of Public Health, the center's primary goal is global prevention of folic acid-preventable birth defects like spina bifida and anencephaly. The center delivers epidemiology expertise and science-based advocacy to countries seeking to prevent birth defects and implement food fortification policy. The center monitors global status of spina bifida and anencephaly. It helps to advance the quality of life for individuals living with spina bifida, including individuals

CENTERS

transitioning from pediatric to adult care. Global partnering organizations include Food Fortification Initiative, Nutrition International, International Federation for Spina Bifida and Hydrocephalus, and Reach Another Foundation, among others. The center provides Emory students opportunities to learn and contribute to birth defects epidemiology and prevention. The center director is Godfrey P. Oakley Jr., MD, Professor of Epidemiology. Learn more at preventsphinabifida.org.

Emory Centers for Public Health Training and Technical Assistance

Emory Centers for Public Health Training and Technical Assistance (Emory Centers) is committed to advancing the practice of public health through capacity building in partnership with the public health workforce and communities nationwide. We do this by providing high quality training, technical assistance, and people and program development. Our customers and their community partners are wide ranging, representing all sectors, organizations, and communities at the state and local level seeking to improve the public's health. Our services span all public health issues, risk factors, and professional competencies. Emory Centers is comprised of 4 specialty Centers: the Training and Technical Assistance Center (TTAC) dedicated to the professional development of the public health workforce, the Diabetes Training and Technical Assistance Center (DTTAC), a leading training entity of lifestyle coaches and master trainings for scaling the National DPP, Engaging Communities and Organizations Ready for Excellence (EnCORE), provides personalized and localized capacity development to community organizations and public-private partners working to advance health equity through capacity building, and the Program Evaluation and Quality Improvement Center (PEQI) dedicated to continuous quality improvement through feedback on how programs, practices, and information systems are working in practice. The Executive Director of Emory Centers is Linelle M. Blais, PhD, associate professor of practice in the Department of Behavioral, Social, and Health Education Sciences, and associate director of the Executive MPH Program, Prevention Science Track. Further information can be found on the website at <https://emorycenters4phtraining.emory.edu/>.

Emory Global Diabetes Research Center

The Emory Global Diabetes Research Center (EGDRC), leverages an extensive global network to develop and advance the abilities of Emory, U.S., and non-US researchers to engage in world-class research in diabetes and other related non-communicable diseases such as stroke, hypertension, heart disease and co-morbid conditions such as cardiovascular diseases, cancers, tuberculosis, mental health, and HIV. EGDRC provides opportunities for faculty, fellows, and students to understand causes and consequences, investigate better treatments and care delivery, investigate prevention methods, and inform policy by exploring risk factors. EGDRC has a global network of partners, particularly in low- and middle-income countries in South Asia and Africa. Dr. M. Venkat Narayan, Ruth and O.C. Hubert Chair in the Hubert Department of Global Health, and Dr. Mohammed K. Ali, William H. Foege Chair of Global Health, direct EGDRC. Other core faculty include Drs. Solveig Cunningham, Unjali Gujral, Felipe Lobelo, Matthew Magee, Shivani Patel, Lisa Staimetz, Mary Beth Weber, Liliana Aguayo, and Elizabeth Rhodes. For further details: see diabetes.emory.edu and <http://diabetes.emory.edu/research/GCDTR.html> or contact Mark Hutcheson, managing director, mhutch3@emory.edu.

Emory Prevention Research Center

Founded in 2004, the Emory Prevention Research Center (EPRC) focuses on community-based cancer prevention and the reduction of health disparities in rural Georgia. The EPRC conducts research and evaluation studies to understand how social and physical environments affect tobacco use, physical activity, nutrition, obesity, and cancer screenings. Much of the EPRC's research is developed in collaboration with community partners in rural, southwest Georgia. It is a hub of interdisciplinary chronic disease prevention research, training, and practice at Emory and it strives to strengthen community-engaged research partnerships. The EPRC is dedicated to improving the lives of Georgia residents by developing and testing innovative interventions, evaluating promising practices, and training practitioners on evidence-based approaches to prevent cancer and other chronic diseases. The director is Michelle C. Kegler, DrPH, professor in the Department of Behavioral, Social, and Health Education Sciences. For additional information go to <https://web1.>

sph.emory.edu/eprc/index.html.

The Emory Program in Cardiovascular Outcomes Research and Epidemiology (EPICORE)

The Emory Program in Cardiovascular Outcomes Research and Epidemiology (EPICORE) is a multidisciplinary research group led by Dr. Viola Vaccarino concentrating on clinical and population epidemiology, and translational research in cardiovascular diseases and related disciplines. Main areas of interest include: Novel biomarkers of cardiovascular risk, subclinical cardiovascular disease, women's health, twin studies, psychosocial factors, social determinants of health, and the effect of mind-body interactions on health.

Funding for research comes primarily from the National Institutes of Health. Faculty affiliated with EPICORE are primarily from the Rollins School of Public Health (Epidemiology) and the School of Medicine (Cardiology, Psychiatry, and Radiology). Investigators collaborate with, contribute to, and utilize the intellectual and material resources of EPICORE. For additional information, go to <https://www.sph.emory.edu/departments/epi/research/centers/epicore/index.html>.

Georgia Center for Cancer Statistics

The Georgia Center for Cancer Statistics (GCCS), located within the Department of Epidemiology, serves as the designated agent of the Georgia Department of Public Health for conducting the activities and oversight of the population-based Georgia Cancer Registry. Founded in 1976, GCCS is one of the original members of the National Cancer Institute's Surveillance, Epidemiology and End Results (SEER) Program and is also now a member of the National Program of Cancer Registries (NPCR) from the United States Centers for Disease Control and Prevention. The Center has extensive experience with cancer surveillance and cancer control activities, registry development and operations, and use of the registry for research purposes. GCCS collaborates with students and researchers across the nation to analyze existing registry datasets (like SEER- Medicare or SEER-MHOS) and to utilize the population-based Georgia Cancer Registry as a linkage source or sampling frame for countless research studies. Data from this Center furthers our understanding of cancer in Georgia and is used to develop strategies and policies for cancer prevention and control. More information can be found at <https://sph.emory.edu/GCCS/>. The Center Director is Kevin C. Ward, PhD. He can be reached at (404)727- 8455 or kward@emory.edu.

Georgia Center for Diabetes Translation Research

Center for Diabetes Translation Research (GCDTR) is a collaboration between Emory, Georgia Tech, and Morehouse School of Medicine. GCDTR is one of eight NIDDK- funded Centers for Diabetes Translation Research in the US. With its broad base of expertise, the mission of the center is to facilitate and grow type 2 translation research in diabetes within the state of Georgia and the southeastern U.S. The GCDTR offers translation research cores (Design and Evaluation for Equity; Socioecological and Behavioral Science for Equity; and Technologies Advancing Translation and Equity) designed to be responsive to the need to close remaining gaps in diabetes detection, prevention, and care, and to the changing profile of the US diabetes population. The GCDTR's Enrichment Program, and Pilot & Feasibility Program provide a linkage to expert faculty, tools, and funding opportunities, in addition to hosting online and in-person platforms to engage with GCDTR and its base of communal resources. Emory's center members cut across disciplines, with representatives from the schools of Public Health, Medicine, Nursing, Business, and the College of Arts and Sciences. The center is directed by Dr. K. M. Venkat Narayan, Ruth and O.C. Hubert Chair in the Hubert Department of Global Health. For further details: see www.gcdtr.org or contact Mark Hutcheson, managing director, mhutch3@emory.edu.

HERCULES: Exposome Research Center

In collaboration with Georgia Tech, the Emory Human Exposome Research Center Understanding Lifetime Exposures (HERCULES) is one of ~20 Environmental Health Sciences Core Centers funded by the National Institutes of Environmental Health Sciences. Led by Dr. Carmen Marsit (Center Director) and Dr. Jeremy Sarnat (Deputy Director), the center's mission is learning how the exposome affects health and community well-being and using that knowledge to improve human health. The exposome is a research framework defined as totality of exposures, biological responses, and societal factors experienced across a lifespan, which impact the health of an individual. With this concept in mind, the

CENTERS

Center is designed to enhance environmental health sciences research on campus and in our communities by providing infrastructure and intellectual resources to translate exposure research to improve public health. Key infrastructure resources provided by HERCULES are the state-of-the-art laboratory resources to assess environmental exposures using targeted and untargeted approaches, metabolomic responses to exposures, and the Environmental Health Sciences Data Sciences Core which brings technical knowledge and tools to apply those assessments to human health. The center also works to foster community engaged research in the Atlanta metro area in order to understand the environmental health challenges faced by community partners and to bring the intellectual resources of Emory and Georgia Tech to partner with them to address those concerns. At RSPH, the Center also sponsors frequent seminars, training opportunities, and research expositions where students can learn more about cutting- edge environmental health research as well as opportunities to engage with community partners in research and practical experiences. For additional information please refer to emoryhercules.com.

Injury Prevention Research Center at Emory

Injuries are the leading cause of death for people ages 1-44 and remains in the top 10 leading causes of death for all other age groups. The Injury Prevention Research Center at Emory (IPRCE) is dedicated to reducing injury in Georgia and the Southeast region. IPRCE uses a data- driven approach to address the most significant injury concerns in communities, such as suicide, teen dating violence, child and elder abuse, motor vehicle crashes, substance use disorders, and many other injury-related topics. We accomplish our goals by organizing multidisciplinary task forces that utilize data to address gaps in translational research and provide solutions to our most formidable injury challenges. Currently, IPRCE is supported by a multi-institutional leadership team representing universities, government, nonprofit agencies, and over 170 researchers. Contact Sharon Nieb, PhD, Associate Program Director, Department of Emergency Medicine, Emory University School of Medicine: sharon.lynn.nieb@emory.edu.

Interfaith Health Program

The Interfaith Health Program examines religion's role as a social force that impacts health beliefs and behaviors as well as health policies in both domestic and international contexts. Recognizing that religion may either contribute to public health or stand in tension with public health, IHP builds partnerships with religious, academic, and civil society partners to support projects that advance health. Through its interdisciplinary research and community- based programs, IHP attempts to mobilize religion as a positive force for human rights, social justice, and culturally relevant public health initiatives. IHP faculty and staff are scholars and practitioners in community health, religious studies, health policy, and sociological studies and they combine teaching, scholarship, and practice in a variety of contexts both in the U.S. and abroad. IHP maintains a robust website with a comprehensive bibliography, webinars, an archive of IHP history, a document and resource center, study reports, and descriptions of current projects for those interested or working in public health and religion. Students participate in IHP activities through Applied Practice Experiences or are employed as graduate research assistants. The director is John Blevins, research associate professor in the Hubert Department of Global Health. For further information go to <http://www.ihpemory.org>.

The Joseph W. Blount Center for Health and Human Rights

The Blount Center endeavors to build bridges between academic, governmental, non- governmental, and religious institutions in support of sound, sustainable public health and development initiatives grounded in a shared vision of human rights and social justice. The center focuses on addressing social-systemic factors that leave those who are most marginalized in our societies bearing the ill effects of health disparities. With this focus, the Blount Center works both in the United States and internationally to encourage gender equity, LGBT civil rights, racial and ethnic equality, and economic opportunity. The center works collaboratively with other Emory programs and enjoys a strong, ongoing partnership with the Interfaith Health Program. For further information about the Joseph W. Blount Center for Health and Human Rights go to <http://blountcenter.org>.

Region IV Public Health Training Center

<http://r4phtc.org>. Funded by the Health Resources and Services Administration (HRSA), the Region IV Public Health Training Center (R-IV PHTC) is comprised of a central office located at Rollins, seven community-based training centers at partnering institutions, and two technical assistance partners. The mission of the R-IV PHTC is to build the capacity of the current and future public health workforce to protect and promote the health of communities in the Southeastern United States. The R-IV PHTC is committed to equitably advancing this mission by: providing priority competency-based trainings and technical assistance to the public health workforce; engaging public health and health profession students in experiential learning opportunities within local communities and medically underserved areas; developing an inclusive learning community with regional partners; supporting a culture of learning within public health agencies; and contributing to the work of the national PHTC program. The R-IV PHTC mission aligns with the HRSA PHTC program's goals to increase the supply/diversity of public health professionals; enhance the quality of the public health workforce through student field placements; and provide tailored quality training to address current and emerging public health needs. The priority populations for the R-IV PHTC services are public health and other health professionals in governmental organizations that serve medically underserved populations. The director is Melissa (Moose) Alperin, assistant professor of practice and director of the Executive MPH program.

Southeastern Center for Air Pollution and Epidemiology

SCAPE (the Southeastern Center for Air Pollution and Epidemiology) is a multi-institutional, multidisciplinary center addressing critical issues related to the health impact of urban air pollution. The Center focuses on the identification and measurement of pollutant sources, components, and mixtures elucidating their role in human health risk. In collaboration with the Georgia Institute of Technology, SCAPE was originally established with funding from the Environmental Protection Agency. Today, SCAPE continues to serve as an umbrella organization providing support for numerous air pollution health effects initiatives and bringing air quality researchers from across the region together for meetings and seminars related to air quality and health. For additional information, please contact Dr. Jeremy Sarnat (jsarnat@emory.edu) or go to: www.scape.gatech.edu.

Maternal and Child Health Center of Excellence

The Maternal and Child Health Center of Excellence (CoE) is part of a network of 13 training and research Centers across the country that are funded by the Health Resources & Services Administration (HRSA) Maternal and Child Health Bureau to improve the health of women, infants, children, youth, and their families by training future and current MCH practitioners.

The Emory CoE provides training through the Maternal and Child Health Certificate program and through the MCH Doctoral Fellowship programs, in partnership with Georgia State University's GaLEND program and the Morehouse School of Medicine.

The mission of the Emory MCH CoE is to promote the health and well-being of women and children through instruction, research, and practice. The CoE serves as a focal point at Rollins for training and research in maternal and child health and women's health, with collaborative research and training within the departments of epidemiology, environmental health, health policy and management, behavioral, social, and health education sciences, and global health. Research conducted by core faculty of the CoE is designed to develop the knowledge base for better understanding the health risks experienced by vulnerable populations of women and children, and ways to provide health promotion and disease prevention care for these populations. This research requires collaboration of a multidisciplinary team of epidemiologists, social scientists, health services researchers, and clinicians. Collaborators include public and private health providers in several states. Rollins students gain experience through participating as research assistants in projects like these, funded primarily by state and federal agencies and nonprofit foundations. For further information go to www.mch.emory.edu.

ADDITIONAL RESOURCES

Additional Resources

The U.S. Centers for Disease Control and Prevention

The U.S. Centers for Disease Control and Prevention (CDC) is the federal government's premier agency devoted to disease prevention and control, with an emphasis in epidemiology, environmental health, health safety, and health education. CDC headquarters is located less than one block from Rollins. Many students work at CDC in paid internships through various ongoing programs, find opportunities for thesis research with CDC scientists, and use the libraries and data sets resulting from CDC's national surveys.

American Cancer Society

The American Cancer Society (ACS) is the world's largest volunteer disease prevention agency dedicated specifically to cancer prevention and health promotion. It is headquartered in downtown Atlanta. The ACS hosts research units in epidemiology and behavioral sciences.

Several collaborative research projects with a shared common interest in early cancer detection and prevention make the ACS a valuable resource to Rollins.

The Carter Center

The Carter Center addresses national and international issues of public policy and provides leadership in global health programs such as disease eradication, child survival, and world hunger. In doing so, it draws on the resources of virtually the entire Emory community, including former President Jimmy Carter (now an Emory distinguished professor) and former CDC Director William Foege (professor emeritus in the Hubert Department of Global Health), and brings to campus a wide range of international scholars, government leaders, business executives, and other professionals. The Carter Center Mental Health Program collaborates with the school in offering a Certificate in Mental Health directed by Benjamin Druss, who is the Rosalynn Carter Chair in Mental Health. The associated Jimmy Carter Presidential Library and Museum, with more than 27 million documents, photographs, films, and mementos of the Carter presidency, serves scholarly researchers and, through its museum, the general public.

CARE USA

Headquartered in Atlanta, CARE's mission is to serve individuals and families in the poorest communities in the world. Drawing from internationally diverse employees, volunteers, resources, and experiences, CARE promotes innovative solutions and advocates global responsibility. Worldwide collaborations with a range of Rollins faculty make CARE an important resource partner for students as well.

Georgia Department of Public Health

The Georgia Department of Public Health is nationally recognized for innovative and successful health programs. It offers the possibility of on-site experience for students in health promotion and disease prevention.

Task Force for Global Health

The Task Force for Global Health, based in Atlanta and founded nearly 40 years ago to advance health equity, works with partners in more than 150 countries to eliminate diseases, ensure access to vaccines and essential medicines, and strengthen health systems to protect populations.

Health Services

Emory University Student Health Services

Student Health Services, located in the 1525 Clifton Road Building, provides both outpatient and inpatient care to regularly enrolled, fully registered Emory students with ID. Cards validated for the current term are eligible for health care at the Student Health Services.

Outpatient Clinic

The University's Outpatient Clinic provides a variety of medical services, including care for acute illnesses and injuries, and follow-up of short-term continuing health problems. Students may be seen on a walk-in basis or by appointment. In addition, appointments may be scheduled for specialty services, including gynecology, family planning, immunizations, allergy injections, and psychiatric or mental health services.

Inpatient Department

Hospitalization for students requiring inpatient care is provided by the Inpatient Department. Students with critical illnesses requiring full hospital services may be admitted to Emory University Hospital.

Mental Health Services

In addition to seeing counselors from Emory University Counseling and Psychological Services, students may see the consultant psychiatrist on self-referral or referral from Student Health Services. The psychiatrist will provide evaluation, counseling, and limited treatments for students with problems related to their emotional well-being. If further treatment is indicated, the psychiatrist will refer the student appropriately.

Medical Emergencies

[Emergency medical services](#) are available to students on a 24-hour basis through the Emory University Hospital Emergency Room (1364 Clifton Road), and can be accessed by calling 911 on an on-campus or off-campus phone. Emory University Student Health Services is not an emergency facility. If not located near the university, the student should go directly to a hospital that has an emergency department or call a local Emergency Service at 911 (dial direct).

Health Insurance

All new and continuing degree-seeking and international Emory University students are required to have [health insurance](#). Under this requirement, students must either purchase the Emory University Student Health Insurance Plan or provide documentation of enrollment in a comparable United States-domiciled plan. New students wishing to waive enrollment in the Emory Student Health Insurance Plan will need to complete the annual waiver process via OPUS prior to the first day of classes of their first semester at Emory. All returning students must also complete the enrollment/waiver process annually prior to the first day of classes of the fall semester. For more information, visit the website www.emory.edu/UHS.

Libraries

All [five campus libraries](#) are available for use by public health students. The university library system comprises more than 2.7 million volumes, 4 million microforms, 14,000 linear feet of manuscripts, and a growing inventory of electronic resources. The libraries maintain 39,000 subscriptions to serials and periodicals. Students also have access to the library of the US Centers for Disease Control and Prevention.

Woodruff Health Sciences Center Library

The Woodruff Health Sciences Center Library (WHSC) is located at 1462 Clifton Road, next to the Rollins School of Public Health. The library is open seven days a week and more than 100 hours per week. It has seating for 400+ users and offers individual and group study rooms. The WHSC Library also delivers in-person and remote services to meet the needs of Rollins students, faculty, and staff. Informationists teach information-based classes that cover the research life cycle, as well as providing curriculum-integrated instruction throughout the semester. Informationists also facilitate effective and efficient use of information resources, and bibliographic and knowledge management tools and are available for individual consultations to support research.

The WHSC Library provides access to a comprehensive collection of licensed resources including e-Books, literature databases, and quantitative and qualitative analysis tools as well as a robust print collection. The library also houses an historical collection specializing in the history of medicine.

Robert W. Woodruff Library

The Woodruff Library provides excellent facilities and services for study and research, with accommodations for assigned graduate student carrels and faculty studies. The Stuart A. Rose Manuscript, Archives & Rare Book Library houses rare books, university archives, manuscripts, and notable collections. Reference staff members cooperate with faculty to provide bibliographical

ADDITIONAL RESOURCES

assistance to individuals and groups in connection with specific courses, subjects, or research projects. Reference services include computerized database searching.

Other Services

University Counseling Services

The Emory University Counseling and Psychological Services provides a broad range of services for students of the university. These services include educational and vocational counseling, individual and group counseling for personal problems, self-help groups in areas such as study and social skills, and consultations concerning various agencies of the university community. These services are provided free of charge to students and at a reduced rate to staff. The center is located at 1462 Clifton Road, Suite 235.

Office of Spiritual & Religious Life

Emory University's Office of Spiritual & Religious Life provides diverse and deep opportunities to engage with spiritual life on campus through worship, meditation, education, service, and multifaith engagement.

The University Chaplain and Dean of Spiritual and Religious Life works with staff and affiliates representing various religious and philosophical traditions at Emory to support a remarkably diverse spiritual life program. Undergraduate and graduate/professional student organizations enrich the opportunities for spiritual community and practice on campus.

In addition to programs designed for particular religious communities, the Graduate InterFaith Council is a multi-religious group of graduate and professional students from across the University who gather for community building and to learn about each other's religious traditions. Cannon Chapel is home to religious services for Buddhist, Catholic, Hindu, Jewish, Muslim and Protestant communities. <http://www.religiouslife.emory.edu/communities/weekly-worship.html>.

On the Atlanta campus, the Office of Spiritual and Religious Life has two locations: Cannon Chapel Suite 316, where the Office of the Dean is located, and the Alumni Memorial University Center (AMUC) Suite 125, where the Associate Dean and Assistant Chaplains are located. Questions can also be sent to religiouslife@emory.edu.

Additional resources available through Emory University can be found here: <https://campuslife.emory.edu/support/index.html>.



Atlanta is a city with a global health focus, due in large part to its proximity to some of the world's most prominent health organizations, including the U.S. Centers for Disease Control and Prevention; The Carter Center; the international headquarters of CARE; the national headquarters of the American Cancer Society; and the patient care, teaching, and health-related research programs of Emory University's Woodruff Health Sciences Center.

As a thriving cultural, educational, and business center, Atlanta is consistently ranked as one of the nation's most livable cities. With a metropolitan-area population of 6 million, Atlanta is home to headquarters of several of the nation's leading businesses, such as the Coca-Cola Company, Home Depot, United Parcel Service, Delta Air Lines, AT&T Mobility, and Newell Rubbermaid. Atlanta is ranked in the top 10 in the United States in the number of Fortune 500 headquarters located within the city's boundaries.

Host of the 1996 Summer Olympics, Atlanta's reputation as an international city continues to grow. A verdant and vibrant city, Atlanta possesses the vigor and open space that accommodates entrepreneurs and established corporations, opera companies and rock concerts, first-run movies, and film classics.

Atlanta is large enough to have a rapid rail system, yet small enough to retain historic neighborhoods within minutes of the downtown skyline. Atlanta is a city where the history of the past and the technology of the future blend to create a vital and growing global center of excellence.

Atlanta is a major U.S. government center and is the site of the Southeastern regional offices of the Department of Health and Human Services, the Environmental Protection Agency, the Department of the Interior, the Department of Labor, and numerous others. The Public Health Service's U.S. Centers for Disease Control and Prevention and the Agency for Toxic Substances and Disease Registry are headquartered in Atlanta. As the state capital, Atlanta houses state government services as well.

And there's more: the High Museum of Art; the Atlanta Symphony Orchestra; the Atlanta Ballet; the National Center for Civil and Human Rights; The King Center; the Georgia Aquarium; professional sports teams (the Braves, the Hawks, the Thrashers, the Falcons, Atlanta United); restaurants; rock, jazz, and blues clubs; frequent concerts; and celebrated annual outdoor events, such as the Piedmont Park Arts Festival, the Atlanta Dogwood Festival, the Atlanta Jazz Festival, and the Peachtree Road Race. Further afield, there's sailing, water skiing, fishing, and camping at nearby Lake Lanier. For weekend trips (a half-day's drive north or south), there's backpacking on the Appalachian Trail, snow skiing in the Carolina mountains, or sunning on the beaches of the Atlantic Ocean or the Gulf of Mexico.

TRUSTEES AND ADMINISTRATION

Trustees of the University

Robert C. Goddard III, Chair
Jonathan K. Layne – Vice-Chair
William T. McAlilly, Vice-Chair
Leah Ward Sears, Vice-Chair
Kathleen Amos - Secretary

Facundo L. Bacardi
Thomas I. Barkin
William A. Brosius
Sarah B. Brown
James Walker Burns
Shantella Carr Cooper
Allison Dukes
Crystal Edmondson
Andrew W. Evans
Javier C. Goizueta
David Graves
Sue Hauptert-Johnson
L. Jonathan Holston
Muhtar Kent
John L. Latham
Allegra Lawrence-Hardy
Steven H. Lipstein
Deborah A. Marlowe
Lee P. Miller
Gregory V. Palmer
John G. Rice
Rick M. Rieder
Teresa M. Rivero
Adam H. Rogers
William H. Rogers, Jr.
Katherine T. Rohrer
Timothy C. Rollins
Stuart A. Rose
Cynthia M. Sanborn
Rosa Tarbutton Sumter
Mitchell A. Tanzman
Gregory J. Vaughn
William C. Warren, IV
Mark A. Weinberger
E. Jenner Wood, III

Trustees Emeriti

J. David Allen
Marvin S. Arrington Sr.
Richard J. Bagby
Ellen A. Bailey
Thomas D. Bell, Jr.
Arthur M. Blank
Henry L. Bowden Jr.
David E. Boyd, Sr.
Susan A. Cahoon

Thomas G. Cousins
G. Lindsay Davis
Walter M. Deriso, Jr.
Robert E. Fannin
James L. Ferman, Jr.
Russell R. French
James R. Gavin III
Charles B. Ginden
John T. Glover
Laura J. Hardman
C. Robert Henrikson
M. Douglas Ivester
Charles H. Jenkins, Jr.
Ben F. Johnson, III
Ruth J. Katz
William N. Kelley
Steven H. Lipstein
Charles H. McTier
M. L. Meadors, Jr.
John F. Morgan, Sr.
Sam A. Nunn, Jr.
George D. Overend
Rhoda A. Peters
J. Neal Purcell
Wendell S. Reilly
Katherine T. Rohrer
Gary W. Rollins
Diane Wilkins Savage
Lynn H. Stahl
Alvin M. Sugarman
James E. Swanson, Sr.
Mary Virginia Taylor
Chilton D. Varner
Felker W. Ward, Jr.
B. Michael Watson
James B. Williams
William H. Willimon

Officers of the University

Gregory L. Fenves
President

Amy Adelman
Interim Senior Vice President and General Counsel

Luke Anderson
Vice President for Communications and Marketing

Christopher Augustini
Executive Vice President for Business and Administration and Chief Financial Officer, Vice Chair Emory Healthcare Board of Directors

Ravi V. Bellamkonda

Provost and Executive Vice President for Academic Affairs

Deborah W. Bruner

Senior Vice President for Research; Robert W. Woodruff Professor and Chair in Nursing, Assistant Dean for Faculty Mentoring, School of Nursing

Allison K. Dykes

Vice President and Secretary of the University

Robert M. Franklin, Jr.

Senior Adviser to the President

Enku Gelaye

Senior Vice President and Dean of Campus Life

Carol E. Henderson

Vice Provost for Diversity and Inclusion; Chief Diversity Officer; Adviser to the President

Gregory W. McGonigle

University Chaplain and Dean of Spiritual and Religious Life

Joshua R. Newton

Senior Vice President for Advancement and Alumni Engagement

Cameron Taylor

Vice President, Government and Community Affairs

Ravi I. Thadhani

EVP for Health Affairs; ED, Woodruff Health Sciences Center

Administrative Units in the Rollins School of Public Health

M. Daniele Fallin

James W. Curran Dean of Public Health

Kimberly Maune

Executive Associate Dean of Administration and Finance; Chief Business Officer

Carmen J. Marsit

Executive Associate Dean Faculty Affairs and Research Strategy

Delia Lang

Executive Associate Dean for Educational Affairs

Kara Brown Robinson

Senior Associate Dean of Enrollment Management and Student Affairs

Kathryn Graves

Senior Associate Dean for Advancement and Alumni Engagement

Prudence Goss

Senior Assistant Dean of Enrollment Management and Student Affairs

Joanne McGriff

Assistant Dean of Diversity, Equity, and Inclusion

Elizabeth Mendes

Associate Dean for Communication

James Leonard

Chief Information Officer

Vanda Hudson

Senior Director of Fulfillment Services

Office of Student Affairs

Ivone Foisy

Executive Director, Admissions and Enrollment

Jena Black

Director of Academic Affairs and Enrollment Operations

Angel Hurston

Director of Admissions Operations

Joanne Williams

Director of Student Engagement

Srdjan Popovic

Executive Director of Professional Development and Career Planning

LaDawna Jones

Director of Systems Effectiveness, Data, & Operations

ACADEMIC CALENDAR

Important Academic Dates - Fall 2023

In addition to the traditional full semester schedule, there are several other course meeting schedules when some courses meet, including a pre-term session that occurs before the official start of the semester, two half-semester sessions that take place during the regular semester (the first session takes place during the first seven weeks of the semester, and the second session takes place during the last seven weeks of the semester), and a separate schedule for the Executive MPH program. Specific dates for each of these sessions, and the regular term session, are listed below.

Each session has specific add/drop/swap dates and grading status change deadlines—see below.

General Fall 2023 Semester Dates

August 09 (W)	Fall Degree Application Opens (Online)
September 4 (M)	Labor Day (No Class)
October 9-10 (M-T)	Fall Break
October 23 (M)	Spring 2024 Pre-Registration Begins for Second-Year Students
October 30 (M)	Spring 2024 Pre-Registration Begins for First-Year Students. Rollins Day On
October 31 (T)	Fall Degree Applications Close (Online)
November 7	Rollins Day On
November 8 (W)	Spring 2024 Pre-Registration Closes for All Students
November 23-24 (Th-F)	Thanksgiving Recess
December 16 (Sat)	End of Term

Fall 2023 Min-Session: August 14-18

August 14 (M)	Classes Begin; Add/Drop/Swap 1 day only)
August 15 (T)	Grading Basis Change Deadline
August 15 (T)	Last Day of Class
N/A	Final Exam Period

Fall 2023 Regular Session: August 23-December 5

August 23 (W)	Classes Begin; Add/Drop/Swap Opens
August 30 (W)	Add/Drop/Swap Closes
October 11 (W)	Grading Basis Change Deadline
December 5 (T)	Last Day of Class
December 6-12 (W-T)	Final Exam Period

Fall 2023 7 Week-1st Session: August 23-October 17

August 23 (W)	Classes Begin; Add/Drop/Swap Opens
August 25 (F)	Add/Drop/Swap Closes; note deadline may be before class meets
August 29 (T)	Grading Basis Change Deadline
October 17 (T)	Last Day of Class
N/A	Final Exam Period

Fall 2023 7 Week-2nd Session: October 18-December 5

October 18 (W)	Classes Begin; Add/Drop/Swap Opens
October 20 (F)	Add/Drop/Swap Closes; note deadline may be before class meets
October 24 (T)	Grading Basis Change Deadline
December 5 (T)	Last Day of Class
N/A	Final Exam Period

Fall 2023 Executive MPH Session: August 25-November 19

August 25 (F)	Classes Begin; Add/Drop/Swap Opens
September 2 (Sat)	Add/Drop/Swap Closes
October 11 (W)	Grading Basis Change Deadline
November 19 (Su)	Last Day of Class

For Spring and Summer 2024 Important Academic Dates please refer to: <https://www.sph.emory.edu/rollins-life/events/important-dates/index.html>

DIRECTORY

Rollins School of Public Health

Main	404.727.4678
Admission	404.727.3956
Center for Injury Control	404.251.8831
Center for Public Health Practice	404.727.7835
Continuing Education	404.727.6000
Development and External Relations	404.727.3739
Department of Behavioral, Social, and Health Education Sciences	404.727.9868
Department of Biostatistics	404.727.7697
Department of Environmental Health	404.727.3697
Department of Epidemiology	404.727.8710
Department of Health Policy and Management	404.727.3211
Hubert Department of Global Health	404.727.8804
Student Affairs	404.772.3956
Women's and Children's Center	404.727.8095

Emory University

Student Accounts and Billing	404.727.6095
Police Department	404.727.6115
Laney Graduate School	404.727.6028
University Financial Aid	404.727.6039
University Registrar	404.727.6042
Student Health Service	404.727.7551



EMORY

ROLLINS
SCHOOL OF
PUBLIC
HEALTH

1518 Clifton Road NE

Atlanta, GA 30322

sph.emory.edu

