

Master of Public Health

EPIDEMIOLOGY CONCENTRATION

2016–2017

Epidemiology (EPID) studies the distributions and determinants of disease, disabilities and death in human populations; the characteristics and dynamics of human populations; and the natural history of disease and the biological basis of health. The concentration in epidemiology provides a solid base in epidemiologic methods, including multivariable methods, time-dependent analysis and an introduction to Bayesian approaches, while training students in the in-depth treatment of cancer and HIV; cardiovascular, infectious and sexually transmitted diseases; and environmental epidemiology (in conjunction with the environmental health concentration). Students can also focus on prevention methods. In conjunction with the biostatistics concentration, students learn to use analytic software, such as SPSS, SAS and STATA.

MPH CORE REQUIREMENTS (16 credit hours) Credits

PH 7711	Epidemiologic Methods I	3
PH 7017	Fundamentals of Biostatistics I	4
PH 7140	Social & Behavioral Aspects of Public Health	3
PH 7150	Environmental Health	3
PH 7160	Introduction to the Health Care System	3

ADDITIONAL MPH REQUIRED COURSES (8 credit hours)

PH 7019	Public Health Research Methods	3
PH 7960	Public Health Practicum	2
PH 7990 or 7991	Public Health Thesis or Capstone	3

Area Total: **24**

CONCENTRATION (18 credit hours)

Required EPID Concentration Courses (9 credit hours)

PH 8721	Epidemiologic Methods II	3
PH 7027	Fundamentals of Biostatistics II	3
PH 7525	Statistical Computing	3

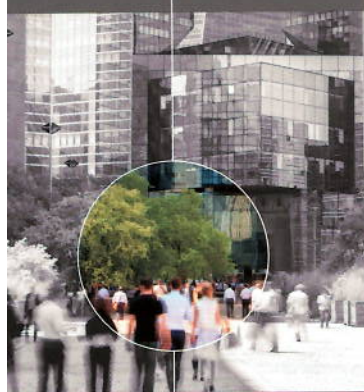
Concentration Elective Courses (9 credit hours)

Select at least three courses.

PH 7014	Epidemiology of STDs & HIV	3
PH 7265	Epidemiology & the Prevention of Violence	3
PH 7275	Chronic Disease Epidemiology	3
PH 7280	Infectious Disease Epidemiology	3
PH 7290	Case Studies in Epidemiology	3
PH 7355	Prevention Methods	3
PH 7365	Epidemiology of Adolescent & Young Adult Health Risk Behaviors	3
PH 8285	Social Determinants of Health	3
PH 8790	Special Topics in Epidemiology	3

Area Total: **18**

Degree Total	42
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**EPIDEMIOLOGY CONCENTRATION
EMPLOYMENT INFORMATION**

2016 – 2017

Epidemiology is the study of trends, patterns and causes related to disease in populations. Epidemiologists investigate patterns and causes of disease and injury in humans and seek to reduce the risk and occurrence of negative health outcomes through research, community education and health policy.

Students who concentrate in epidemiology are interested in how diseases spread among given populations. Students learn to use statistical analysis, but their approach and methods differ from what biostatisticians use. Epidemiologists take into account hereditary, behavioral, environmental and health care factors and make extensive use of the biological and clinical sciences, including techniques derived from biochemistry and molecular biology.

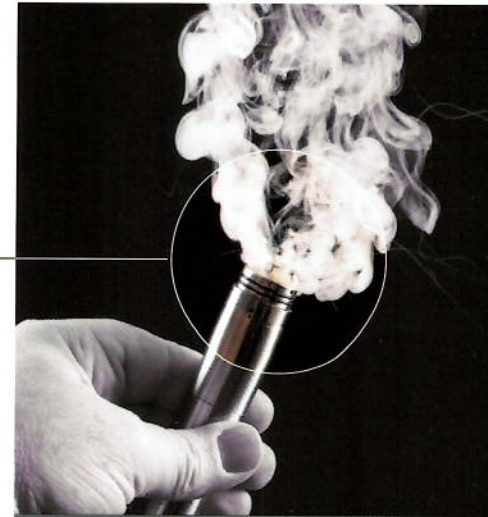
Epidemiologists create complex analytical models to identify and explain the causes of and solutions to these diseases. Epidemiologists work in offices, laboratories and hospitals; at health departments for state and local governments; and at colleges and universities. In their fieldwork, some conduct interviews and collect samples for analyses. Fieldwork may bring epidemiologists into contact with infectious disease, but they very rarely get sick or suffer contagion.

Common Job Titles: Epidemiologist, Public Health Epidemiologist, Data Analyst, Data Entry Analyst, Infection Preventionist, Epidemiologist Principal Scientist, Outcomes Researcher and more.

Potential Salary Range: \$65,976 – \$108,609

Useful Links for Public Health Career and Internship Information

- American College of Epidemiology: acepidemiology.org
- Association for Professionals in Infection Control & Epidemiology: apic.org
- Centers for Disease Control & Prevention: jobs.cdc.gov
- Georgia Governor's Intern Program: gov.georgia.gov/intern-program
- Idealist: idealist.org
- Infectious Diseases Society of America: idsociety.org
- International Epidemiologic Association: ieaweb.org
- Association of Schools & Programs of Public Health: aspgh.org
- Public Service Careers: publicservicecareers.org
- Society for Epidemiologic Research: epiresearch.org
- University Career Services: career.gsu.edu



POTENTIAL EMPLOYERS

- Government:
 - Centers for Disease Control & Prevention
 - State departments of public health
- Industry:
 - Acentia
 - CACI
 - Carter Consulting
 - Children's Healthcare of Atlanta
 - Emory Healthcare
 - Genentech
 - Grady Health System
 - ICF International
 - IHRC
 - Merck
 - RTI International
 - SciMetrika

PROFESSIONAL DEVELOPMENT

- American College of Epidemiology
- Association of Professionals in Infection Control & Epidemiology
- Infectious Diseases Society of America
- International Epidemiologic Association
- Society for Epidemiologic Research

Concentration profile excerpt from aspgh.org, bis.gov/ooah/life-physical-and-social-science/epidemiologists.htm and explorehealthcareers.org. Sector salary information as reported by salary.com.