

EPIDEMIOLOGY (MEDICINE)

Program Information

The **Ph.D. in Epidemiology program** is in the Department of Epidemiology, which is jointly governed by both the College of Public Health and Health Professions and the College of Medicine. The program requires a minimum of 90 semester credits beyond the bachelor's degree.

All students must complete a minimum of 9 credits in Epidemiology foundation course work, at least 36 credits of epidemiology core courses, 6 credits of statistics electives, 18 credits of epidemiology electives, 15 credits of general electives, and 12 credits of dissertation research. All entering students who do not hold MPH or equivalent degrees are also required by the College of Public Health and Health Professions to complete an Introduction to Public Health course.

Students in the Ph.D. program in Epidemiology are admitted to work with a research mentor on that mentor's project, and that research mentor funds the student. Other funding sources are available such as the Graduate School and the Department.

The core course work is designed to incorporate competencies recommended in the report of the 2002 workshop on doctoral education in epidemiology from the American College of Epidemiology and the Association of Schools and Programs of Public Health, and criteria for applied epidemiology competencies. The overall outcomes expected of all graduates are as follows:

1. Apply epidemiological methods to address critical and/or emerging public health issues through the use of:
 - Appropriate epidemiological research designs
 - Advanced statistical analysis methods for health studies
 - Data structures and measurement methods for health research
 - Biological, behavioral and social theory applied to the understanding and prevention of contemporary threats to health and well-being
 - Depth of knowledge in an area of specialization
2. Assimilate the history, philosophy, and ethical principles of epidemiology into current research
3. Develop grant proposals and manage research projects
4. Write scientific papers for publication in peer-reviewed journals, and communicate research results to scientists, policy makers, and the public
5. Compete successfully for research and teaching positions in academic institutions, federal or state agencies, or private institutions.

Students in the Ph.D. program in Epidemiology may apply to graduate with a concentration in Gero-Epidemiology. With the continued "graying" of the worldwide population, the number of individuals at risk for developing age-related disorders continues to increase along with the social, emotional, and economic cost of caring for such individuals. Therefore, nearly every health care-related academic discipline will be faced with the task of integrating Gerontology as a critical area of study. The overarching goal of the Gero-Epidemiology concentration is to provide learners with advanced training in the field of Gero-Epidemiology. This training, provided through courses within the Department of Epidemiology and the Department of Aging and Geriatric Research (DAGR), will help prepare researchers for the frontlines of interdisciplinary

team science targeted towards improving the quality of life, health and society for our ever increasing aging population.

The Department of Epidemiology also participates in the Clinical and Translational Science Interdisciplinary Concentration offered by the Clinical and Translational Science Institute. For more information about this concentration, please visit <https://www.ctsi.ufl.edu/education/ph-d-students/cts-interdisciplinary-concentration/>.

Details of the Ph.D. in Epidemiology program and application information are available at our website: <http://epidemiology.php.ufl.edu/about/ph-d-in-epidemiology-2/> (<http://epidemiology.php.ufl.edu/about/ph-d-in-epidemiology-2/>).

Degrees Offered

Degrees Offered with a Major in Epidemiology

- Doctor of Philosophy
 - without a concentration
 - concentration in Clinical and Translational Science
 - concentration in Gero-Epidemiology
- Master of Science

Requirements for these degrees are given in the Graduate Degrees (<http://catalog.ufl.edu/graduate/degrees/>) section of this catalog.

Courses

Epidemiology (PHEP/COM) Departmental Courses

College of Medicine Courses

Code	Title	Credits
GMS 5905	Special Topics in Biomedical Sciences	1-4
GMS 6001	Fundamentals of Biomedical Sciences I	5
GMS 6003	Fundamentals of Graduate Research and Professional Development	1
GMS 6004	IDP Practical Laboratory	2
GMS 6008	Fundamentals of Physiology and Functional Genomics	2
GMS 6009	Principles of Drug Action and Therapeutics	3
GMS 6090	Research in Medical Sciences	1-10
GMS 6096	Introduction to NIH Grant Writing for Biomedical Sciences	1
GMS 6160	Introduction to Oral Biology I	2
GMS 6161	Introduction to Oral Biology II	2
GMS 6193	Research Conference in Oral Biology	1-3
GMS 6405	Fundamentals of Endocrine Physiology	1
GMS 6406	Fundamentals of Pulmonary/Respiratory Physiology	1
GMS 6408	Fundamentals of Renal Physiology	1
GMS 6411	Fundamentals of Cardiovascular Physiology	1
GMS 6415	Fundamentals of Gastrointestinal Physiology	1
GMS 6491	Journal Club in Physiology	1
GMS 6780	Addiction: Neuroscience and Trends	3
GMS 6845	Clinical & Translational Research Practicum	3
GMS 6865	Quantitative Literacy for Translational Research	2
GMS 6875	Ethical and Policy Issues in Clinical Research	2
GMS 6895	CTS Journal Club	1

GMS 6903	Manuscript and Abstract Writing for Clinician/Scientists	2
GMS 6905	Independent Studies in Medical Sciences	1-10
GMS 6910	Supervised Research	1-5
GMS 6940	Supervised Teaching	1-5
GMS 6971	Research for Master's Thesis	1-15
GMS 7093	Introduction to Clinical and Translational Research	2
GMS 7877	Responsible Conduct of Biomedical Research	1
GMS 7944	Practicum in Biomedical Science Education	3
GMS 7950	Fundamentals of Biomedical Science Education	2
GMS 7979	Advanced Research	1-12
GMS 7980	Research for Doctoral Dissertation	1-15

Student Learning Outcomes

Epidemiology (PHD)

SLO1 Research Studies

Design epidemiologic research studies and analyze data to answer health-related research questions that are currently relevant to the population.

SLO2 Independent Research

Prepare to become an independent researcher in the field of Epidemiology.

SLO3 Epidemiology Concepts

Illustrate a thorough understanding of epidemiology concepts.

SLO4 Professional Behavior

Display ethical behaviors, cultural sensitivity, teamwork, professional conduct and communication, and build academic skills such as grant writing

Epidemiology (MS)

SLO 1 MSE Knowledge

Apply surveillance, assessment, evaluation, and other foundational epidemiological research designs to all areas of interest

SLO 2 MSE Skills

Utilize biological, behavioral and social theory to understand how to prevent and intervene to promote the public health

SLO 3 MSE Skills Choose appropriate measurement and analytic methods to study health and disease in a population

SLO 4 MSE Professional Behavior

Display ethical behavior, cultural sensitivity, integrity in research conduct, honesty, and teamwork