

PLEASE PAY ATTENTION TO PRE-REQUISITES AND REGISTRATION COMMENTS!

DEPARTMENT OF EPIDEMIOLOGY

SCHOOL OF PUBLIC HEALTH

SCHEDULE OF COURSES: FALL 2021

[Note: PRE-requisites must be met prior to beginning course; CO-requisites can be taken concurrently]

COURSE#	SECTION#	TITLE	DESCRIPTION	PRE- OR CO-REQUISITES	FACULTY	DAY(S)	TIME(S)	REGISTRATION COMMENTS
600	001	PRINCIPLES OF EPIDEMIOLOGY FOR PUBLIC HEALTH (3 credits) Must register for one lab section: sections 601-604 (see below)	An introductory course that considers the meaning and scope of epidemiology and the uses of morbidity, mortality, and other vital statistics data in the scientific appraisal of community health.		Yeatts	T	3:30-4:45	Registration opens for non-SPH majors on August 11th IF space is available.
600	601	PRINCIPLES OF EPIDEMIOLOGY *LAB*	See above	See above	See above	W	3:35-4:50	
600	602	PRINCIPLES OF EPIDEMIOLOGY *LAB*	See above	See above	See above	W	3:35-4:50	
600	603	PRINCIPLES OF EPIDEMIOLOGY *LAB*	See above	See above	See above	R	3:30 - 4:45	
600	604	PRINCIPLES OF EPIDEMIOLOGY *LAB*	See above	See above	See above	R	3:30 - 4:45	
625	001	INJURY EPIDEMIOLOGY AS A PUBLIC HEALTH PROBLEM (cross-listed as MHCH 625/HBEH 625; administering department: EPID) (3 credits)	This course examines unintentional injuries from a public health perspective. The course covers core concepts in injury prevention and control, including the epidemiology of unintentional injury, prevention strategies, behavioral models, child and adolescent injury, messaging framing, the Haddon matrix, and injury surveillance.	CO-requisite: EPID 600 or equivalent.	Marshall, Golightly, Shanahan	TR	12:30 -- 1:45	
700	001	PROBLEMS IN EPIDEMIOLOGY: SAS AND DATA MANAGEMENT (3 credits)	Introduction to statistical analysis, programming and data management using the SAS programming language		Marshall	WF	1:25-3:15	EPID majors only
705	001	INTRODUCTION TO DEDUCTIVE AND PROBABILITY LOGIC IN EPIDEMIOLOGY (2 credits)	Covers properties of logical relations, truth tables and Euler diagrams, valid and fallacious arguments, cognitive heuristics and biases, interpretations of probability, the probability calculus, Bayes' theorem, binomial and normal distributions, applications of probability logic and probabilistic fallacies, all in an epidemiologic context.	CO-requisite: EPID 710.	Poole	MW	8:00-9:15	Meets 9/8/2021 thru 11/24/2021 Non-majors must be waitlisted thru EPID Student Services Office

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						[T=Tues]			
						[R=Thurs]			
710	001	FUNDAMENTALS OF EPIDEMIOLOGY (3 credits)	An intensive introduction to epidemiologic concepts and methods for students intending to engage in, collaborate in, or interpret the results of epidemiologic studies. Some familiarity with biomedical concepts may be needed. An alternate to EPID 600 for satisfying the SPH core requirements.	CO-requisite: BIOS 600	Westreich	TR	9:30-10:45		Enrollment in this course is limited to EPID majors and EPID minors until mid-summer.
712	001	FUNDAMENTALS OF EPIDEMIOLOGY (2 credits) *LAB*	This is a lab course that is for epidemiology majors.	See above	Westreich	M	10:10-12:00		Enrollment is limited to EPID PHD students
712	002	FUNDAMENTALS OF EPIDEMIOLOGY (2 credits) *LAB*	This is a lab course that is for epidemiology majors.	See above	Westreich	M	10:10-12:00		
712	003	FUNDAMENTALS OF EPIDEMIOLOGY (2 credits) *LAB*	This is a lab course that is for epidemiology majors.	See above	Westreich	M	1:25-3:15		
712	004	FUNDAMENTALS OF EPIDEMIOLOGY (2 credits) *LAB*	This is a lab course that is for epidemiology majors.	See above	Westreich	M	1:25-3:15		
711	001	CLINICAL MEASUREMENT/ EVALUATION (cross-listed as PUBH 760; administering department: PUBH) (3 credits)	Introduction to clinical epidemiology. Provides a broad-based introduction to the concepts and methods of epidemiology with particular emphasis on their application to clinical research, clinical practice, and health care policy.	EPID or HC&P MPH and MSCR majors only	Napravnik	TR	12:30-1:45		
718	001	ANALYTIC METHODS IN OBSERVATIONAL EPIDEMIOLOGY (3 credits)	Concepts and applications, including logistic regression, binomial regression, model building strategy, additive and multiplicative interaction, and graphical exploration. Includes computer-based experience with real data.	PRE-requisites: EPID 715/6 and demonstrated experience with computer-based data analysis. Permission required for non-majors.	Pence, Marshall	TR	9:30-10:45		Non-majors need to contact Student Services Office for information on being waitlisted.
719	001	READINGS IN EPIDEMIOLOGIC MODELING (1 credit)	A discussion in journal-club format of readings in general epidemiologic methods, from problem conceptualization to application of results.		Poole	W	11:15-12:05		

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726	001	EPIDEMIOLOGIC RESEARCH METHODS (3 credits)	A second level course on conduct of epidemiologic research. Focuses on dealing with both the conceptual problems of applying the scientific method and practical issues encountered in carrying out the work.	*PRE*-requisites: EPID 715/6, at least 1 (preferably 2) substantive EPID course(s), and 3rd year PhD student in EPID. (2nd year students may apply to enroll.)	Pettifor	TR	11:00-12:15		
731	001	ADVANCED METHODS IN EPIDEMIOLOGY: META-ANALYSIS (1 credit)	A course for advanced students exploring methodological issues in epidemiology, including measurement error, missing data, intermediate variables, complex study designs and modeling techniques, meta-analysis, splines, and other topics		Poole	TR	12:30-1:45		Meets 9/28/2021 thru 11/23/2021
735	001	CARDIOVASCULAR DISEASE EPIDEMIOLOGY (3 credits)	Review of cardiovascular health and disease in populations and their population determinants. Topics include epidemiologic methods, risk factors, strategies for prevention, and a student research project.		Rosamond	TR	2:00-3:15		
743	001	GENETIC EPIDEMIOLOGY: METHODS AND APPLICATIONS (3 credits)	Concepts and methods of genetic epidemiology relevant to the study of complex human diseases, including research on twins, familial aggregation, path analysis, segregation analysis, linkage analysis, and gene-environment interaction.	*PRE or CO*-requisites: EPID 715 & BIOS 545	North	TR	3:30-4:45		
750	01W, 965, 968	FUNDAMENTALS OF PUBLIC HEALTH SURVEILLANCE (3 credits)	This course provides the conceptual foundations and practical skills for designing and implementing surveillance systems, for using surveillance data for the conduct and evaluation of public health programs and research.	Permission required	Irwin		Web-based		
772	001	CANCER PREVENTION AND CONTROL (cross-listed HPM 765, HBHE 765, administering department: HPM) (3 credits)	An interdisciplinary overview of cancer prevention and control. Emphasis on projects and activities from perspectives of epidemiology, health behavior and education, and health policy and administration. Appropriate research design and methodologies will be covered.		Guilkey	TR	9:30-10:45		

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775	001	ADVANCED CANCER EPIDEMIOLOGY: CLASSIC AND CONTEMPORARY CONTROVERSIES IN CANCER CAUSATION (2 credits)	Readings and discussions on classic and contemporary controversies in cancer causation.	*PRE*-requisites: EPID 715/6 and 718, 770 or 771.	Troester	F	12:20-2:00	
787	001	ADVANCED ENVIRONMENTAL EPIDEMIOLOGY	Discussion of the epidemiology of environmentally-related disease and the application of epidemiologic concepts/methods to protecting public health from environmental hazards. Examples illustrate discussions regarding exposure assessment, dynamic nature of environments, regulation/assessment of environmental hazards, and methods used for environmental hazard identification and risk assessments.	PRE-requisite: EPID 785	Richardson	M	12:20-2:10	
790	001	INTERVENTION EPIDEMIOLOGY (2 credits)	Epidemiologic methods for evaluating interventions, primarily in infectious disease epidemiology and injury epidemiology. Covers randomized designs, such as community trials, and evaluation of non-randomized interventions, such as policies and laws.	PRE-requisite: EPID 705 & EPID 710	Gower	T	12:30-2:10	
795	001	DATA IN PUBLIC HEALTH (3 credits)	This course provides students with an overview of public health informatics and includes in-depth discussions on informatics approaches used in developing the public health information systems in use today.		Ising	MWF	2:30-3:20	Applied Epid MPH students only
799A	001	SPECIAL STUDIES IN EPIDEMIOLOGY I	Experimental course to be offered by faculty to determine the need and demand for the subject. Topics will be chosen by faculty based on current public health issues. One credit option.		Martin	W	11:15-12:05	Social Epidemiology Research Seminar

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799A	003	SPECIAL STUDIES IN EPIDEMIOLOGY I	Experimental course to be offered by faculty to determine the need and demand for the subject. Topics will be chosen by faculty based on current public health issues. One credit option.		Baric	TR	12:30-1:45	Biological Basis of Infectious Disease Epidemiology EPID majors only Meets 9/8/2020 thru 10/8/2020 Registration will open to non-EPID majors on August 11th IF space is available.
799A	004	SPECIAL STUDIES IN EPIDEMIOLOGY I	Experimental course to be offered by faculty to determine the need and demand for the subject. Topics will be chosen by faculty based on current public health issues. One credit option.		Heiss	F	9:05-10:55	1st Year Doctoral Seminar Meets every other week EPID majors only- All 1st year doctoral students are encouraged to register
799A	005	SPECIAL STUDIES IN EPIDEMIOLOGY I	Experimental course to be offered by faculty to determine the need and demand for the subject. Topics will be chosen by faculty based on current public health issues. One credit option.		Jonsson Funk	W	3:35-4:25	Pharmacovigilance
818	001	ANALYTICAL METHODS IN NUTRITIONAL EPIDEMIOLOGY (cross-listed with NUTR 818; administering department: NUTR) (3 credits)	Skills and techniques to study how dietary exposures, physical activity, and anthropometric status relate to disease outcomes. Focus is hands-on data analysis using STATA, and interpretation of results from statistical analysis.	*PRE*-requisites: EPID 600 or 710, BIOS 545 & NUTR 813.	Adair	W	2:30-5:00	
826	001	INTRODUCTION TO SOCIAL EPIDEMIOLOGY (2 credits)	This course provides an overview of key concepts, methods and findings in research on social determinants of population health. Classes will consist of a didactic presentation followed by in-class group work modules and large group summary discussion.	PRE-requisite: EPID 600 or equivalent. Permission required for non-majors	Maselko	F	11:15-1:00	

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851	001	REPRODUCTIVE/PERINATAL EPIDEMIOLOGY (cross-listed as MHCH 851; administering department: EPID) (3 credits)	Epidemiology of major reproductive health outcomes, including infertility, fetal loss, birth weight, congenital malformations, and infant mortality. Current knowledge regarding epidemiology of these outcomes. Discussion of methodologic issues specific to reproduction.	PRE-requisite: BIOS 600 and EPID 600	Olshan	TR	2:00-3:15		
886	001	PROBLEMS IN EPIDEMIOLOGY: INDEPENDENT STUDY (1 or more credits, depending on scope of planned work)	A course for students who wish to make an intensive study of some special problems in epidemiology. Reserved for students making independent study arrangements with individual instructors.	Permission of instructor required	TBA	N/A	N/A	Contact EPID Student Services Office to register	
889	001	TOPICS IN EPIDEMIOLOGY SEMINAR Topic: Omics Methodologies	Course will review major national and international cardiovascular disease surveillance studies with special focus on methods of case ascertainment and validation. Students will gain experience critiquing and interpreting surveillance studies. Recommendations for the future of surveillance of cardiovascular disease research and policy will be evaluated.	*PRE*-requisite: EPID 710 or permission of instructor	Highland, Graff	M	2:30-3:25		
889	002	TOPICS IN EPIDEMIOLOGY SEMINAR Topic: Guided readings in cardiovascular epidemiology	Course will review major national and international cardiovascular disease surveillance studies with special focus on methods of case ascertainment and validation. Students will gain experience critiquing and interpreting surveillance studies. Recommendations for the future of surveillance of cardiovascular disease research and policy will be evaluated.	*PRE*-requisite: EPID 710 or permission of instructor	Avery, Heiss	M	3:30-4:25		
893	001	PHARMACOEPIDEMIOLOGY SEMINAR (1 credit)	This is a weekly seminar to explore current problems in pharmacoepidemiology.		Jonsson-Funk	M	3:35-4:25		
897	001	CARDIOVASCULAR DISEASE SEMINAR (1 credit)	Intended to expose students to novel, ongoing research in CVD epidemiology. The focus is methodologic as well as topical.	Permission of instructor required	Heiss	T	12:30-1:20	Contact EPID Student Services Office to register	
900	001	EPIDEMIOLOGY PRACTICE (4 credits)	Designed to give epidemiology majors a supervised field experience in population health research.	Advanced standing	Alexander	N/A	N/A		
905L	001	EPIDEMIOLOGY LABORATORY PRACTICE (1-9 credits)	Students work individually with a faculty member on supervised laboratory research and skills development. May be repeated for credit.	Permission of instructor required	Various faculty	N/A	N/A	Contact EPID Student Services Office to register	

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910	001 and others	RESEARCH IN EPIDEMIOLOGY (1-9 credits)	Independent investigation in consultation with an instructor who must assign or approve the subject of research. Credits will vary according to the effort and rigor of the research.	Permission of instructor form must be filed with department registrar.	Various faculty				
992	001 and others	MASTER'S PAPER (3 credits)	Register online AFTER receiving instructor's permission.	Permission of instructor required	Various faculty				
994	001 and others	DOCTORAL DISSERTATION (3 credits)	Register online AFTER receiving instructor's permission.	Permission of instructor required	Various faculty				