

## DEPARTMENT OF EPIDEMIOLOGY

## SCHOOL OF PUBLIC HEALTH

## SCHEDULE OF COURSES: SPRING 2024

[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
						[T=Tues]		COMMENTS
						[R=Thurs]		
600	001	PRINCIPLES OF EPIDEMIOLOGY (3 credits) <b>Must register for one lab section: sections 601-604 (see below)</b>	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 for non-SPH majors will open the first week of classes IF space is available.
600	601, 602, 605	PRINCIPLES OF EPIDEMIOLOGY <b>*LAB*</b>	See above		See above	W	3:35-4:50	
600	603, 604, 606	PRINCIPLES OF EPIDEMIOLOGY <b>*LAB*</b>	See above		See above	R	3:30-4:45	
702	001	Systematic Review	Course gives students background in assessing and conducting systematic reviews. Focuses on 1) reading, discussing, and critiquing systematic reviews on various topics; 2) reading background and methods articles on systematic reviews; 3) developing a focused question for systematic review; and 4) developing a protocol for a systematic review over the semester.		Feltner, Mayo-Wilson	M	1:25-3:05	
715	001	THEORY AND QUANTITATIVE METHODS IN EPIDEMIOLOGY (4 credits)	Required preparation, competence in SAS. An in-depth treatment of basic concepts and skills in epidemiologic research, including problem conceptualization, study design, research conduct, data analysis, and interpretation.	<b>*PRE*</b> -requisites: EPID 700, EPID 705 and EPID 710/712 (or 711) or equivalents <b>CO</b> -requisites: BIOS 645 & EPID 716 Priority given to EPID majors and EPID minors.	Jonsson-Funk	M W	9:05- 10:20 9:05-11:20	
716	001	EPIDEMIOLOGIC DATA ANALYSIS (3 credits) <b>Must register for one lab section: Sections 601-602 (see below)</b>	This course is a combined lecture/lab format where students get hands-on experience in the analysis and interpretation of data from cohort and case-control studies.	<b>*PRE*</b> -requisites: EPID 700, EPID 795, or SAS exemption exam & EPID 710 or 711 or equivalents	Avery, Wood	M	11:15-12:30	This section is reserved for Applied Epi MPH students
716	002	EPIDEMIOLOGIC DATA ANALYSIS (3 credits) <b>Must register for one lab section: Sections 603-604 (see below)</b>	This course is a combined lecture/lab format where students get hands-on experience in the analysis and interpretation of data from cohort and case-control studies.	<b>*PRE*</b> -requisites: EPID 700 & EPID 710 or 711 or equivalents	Avery, Wood	M	11:15-12:30	This section is reserved for EPID PhD students and EPID minors
716	601	EPIDEMIOLOGIC DATA ANALYSIS - COMPUTER LAB	See above		Avery, Wood	W	1:25-2:40	This section is reserved for Applied Epi MPH students
716	602	EPIDEMIOLOGIC DATA ANALYSIS - COMPUTER LAB	See above		Avery, Wood	W	1:25-2:40	This section is reserved for Applied Epi MPH students
716	603	EPIDEMIOLOGIC DATA ANALYSIS - COMPUTER LAB	See above		Avery, Wood	W	12:20-1:35	This section is reserved for EPID PhD students and EPID minors
716	604	EPIDEMIOLOGIC DATA ANALYSIS - COMPUTER LAB	See above		Avery, Wood	R	9:30-10:45	This section is reserved for EPID PhD students and EPID minors

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719	001	READINGS IN EPIDEMIOLOGIC METHODS (1 credit)	A discussion in journal-club format of readings in general epidemiologic methods, from problem conceptualization to application of results.		Poole	F	11:15-12:05	<a href="#">Remote format</a>
722	001	EPIDEMIOLOGIC ANALYSIS OF TIME-TO-EVENT DATA (3 credits)	Course covers epidemiologic analysis of time-to-event data and emphasizes weighing threats to the accuracy of inferences. Class time is spent discussing weekly readings and homework.	*PRE*-requisites: EPID 718 & SAS software expertise Permission required for non-majors.	Edwards, Cole	TR	3:30-4:45	
755	001	INTRODUCTION TO INFECTIOUS DISEASE EPIDEMIOLOGY (3 credits)	Objectives of Course: (1) understand the general principles of infectious disease epidemiology; (2) understand surveillance, prevention and control of infectious diseases; (3) apply principles to specific infectious diseases.	*PRE*-requisite: EPID 751 or 799A.002 module Co-Requisite: EPID 715 Permission required for non-majors.	Powers	TR	2:00-3:15	
759	001, 965, 968	METHODS IN FIELD EPIDEMIOLOGY (3 credits)	Course will focus on epidemiological methods required to investigate urgent public health problems. Course covers the skills and tools needed to conduct outbreak investigations and communicate findings to the public.	*PRE*-requisite: EPID 600, EPID 710 or EPID 711.  This course is part of the Field Epi Certificate Program.  Special permission is required for <i>degree-seeking students</i> .	Yeatts	TR	5:00-6:00 online	
760	001	Vaccine Epidemiology (3 Credits)	An overview of vaccinology principles, mechanisms of action, and herd protection, and statistical considerations. Students will obtain understanding of how vaccines are produced by industry, undergo preclinical evaluation, and evaluated for efficacy in clinical trials.		Smith, Weber	M	3:35-6:35	
771	001	Cancer Epidemiology: Survivorship and Outcomes (3 Credits)	Students will evaluate the strengths and weaknesses of data sources common to cancer survivorship and outcomes studies, focusing on epidemiologic study designs. The course addresses cancer detection, treatment strategies, medical surveillance, and personal behaviors as determinants for prognosis, late effects, and the long-term health of cancer survivors.	*PRE*-requisite: EPID 710 or EPID 711.	Nichols	TR	2:00-3:15	

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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, Ranapurwala	TR	9:30-10:45	
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.	EPID majors only	Miller	F	9:05-10:55	
799A	002	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.	EPID PhD majors only	Martin	R	12:30-1:45	<b>Adv Sem in Social Epi</b>  Open to EPID PhD students only
799B	001	SPECIAL STUDIES IN EPIDEMIOLOGY II	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. Two credit option.		Hincapie Castillo	TR	9:30-10:45	<b>Legal Epidemiology</b>
804	001	DESIGN OF CLINICAL RESEARCH (4 credits)	This course is designed for MSCR students interested in a career in clinical research. The course will focus on crafting clinical research questions, consideration of appropriate design strategies and issues around the implementation of clinical studies essential for a clinical researcher.	<b>*PRE*</b> -requisite: EPID 711 or equivalent.  Permission of instructor required if not in MSCR program.	Rosamond	T R	2:00-4:15 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	Per arrangement with faculty			Go to Student Services Office (MC2106) to register
889	001	TOPICS IN EPIDEMIOLOGY SEMINAR <b>Topic:</b> <b>Genetic Epidemiology Analysis Modules</b>	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.	<b>*PRE*</b> -requisite: EPID 710 or permission of instructor	Highland, Graff	M	2:30-3:20	Remote Format

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893	001	PHARMACOEPIDEMOLOGY SEMINAR (1 credit)	This is a weekly seminar to explore current problems in pharmacoepidemiology. It supplements the introductory course Epidemiology 765.		Jonsson-Funk, Stürmer, Lund	M	3:35-4:25	
894	001	INFECTIOUS DISEASE SEMINAR (1 credit)	Detailed review of selected topics in infectious disease epidemiology.		Pettifor	T	12:30-1:30	Required for ID epi students taking Substantive QE in Fall 2023.
897	001	ADVANCED SEMINAR IN CARDIOVASCULAR RESEARCH (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	Kucharska-Newton	T	12:30-1:20	Remote format
900	001	EPIDEMIOLOGY PRACTICE (4 credits)	Designed to give epidemiology majors a supervised field experience in population health research.	Permission of instructor required	Alexander	TBA	TBA	
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 required	Various faculty	TBA	TBA	
992	001	MASTER'S PAPER (3 credits)	<b>ILE course for MPH students in Applied Epidemiology concentration</b>		Daniels	TR	12:30-1:45	This section is reserved for Applied Epi MPH students
992	All other sections	MASTER'S PAPER (3 credits)	<b>DO NOT ENROLL WITHOUT YOUR ADVISOR'S APPROVAL.</b>	Permission of instructor required, but you can register yourself.	Various faculty	TBA	TBA	
994	001 and others	DOCTORAL DISSERTATION (3 credits)	<b>DO NOT ENROLL WITHOUT YOUR ADVISOR'S APPROVAL.</b>	Permission of instructor required, but you can register yourself.	Various faculty	TBA	TBA	