DEPARTMENT OF EPIDEMIOLOGY

SCHOOL OF PUBLIC HEALTH

SCHEDULE OF COURSES: SPRING 2016

[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) [T=Tues] [R=Thurs]	TIME(S)	REGISTRATION COMMENTS
600	001	PRINCIPLES OF EPIDEMIOLOGY (3 credits) **Must register for one lab section: sections 601-602 (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 for non-SPH majors will open on 12/1/15 IF space is available.
600	601	PRINCIPLES OF EPIDEMIOLOGY ***LAB***	See above		See above	W	3:35-4:50	
600	602	PRINCIPLES OF EPIDEMIOLOGY ***LAB***	See above		See above	R	3:30-4:45	
715	001	THEORY AND QUANTITATIVE METHODS IN EPIDEMIOLOGY (4 credits)	An in-depth treatment of key methodological topics in epidemiologic research, including problem conceptualization, study design, research conduct, data analysis and interpretation.	*PRE*-requisite: EPID 705, EPID 710 or 711 & EPID 700 or equivalents CO-requisites: BIOS 545 & EPID 716 Priority for EPID majors. Permission required for non-majors.	Poole	MW	10:10-12:05	Non-majors should contact EPID Student Services Office (epidemiology@unc.edu)
716	001	EPIDEMIOLOGIC DATA ANALYSIS (2 credits) Must register for one lab section: Sections 601-604 (see below)	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.	*PRE*-requisite: EPID 705, EPID 710 or 711 & EPID 700 or equivalents CO-requisite: EPID 715	Avery	W	8:00-8:50	Registration for this courses opens at approximately 9:00 on Nov 5 to allow equal access to recitation sections.
716	601	EPIDEMIOLOGIC DATA ANALYSIS - COMPUTER LAB	See above		Avery	W	1:25-3:15	
716	602	EPIDEMIOLOGIC DATA ANALYSIS - COMPUTER LAB	See above		Avery	W	2:30-4:20	
716	603	EPIDEMIOLOGIC DATA ANALYSIS - COMPUTER LAB	See above		Avery	R	10:00-11:50	
716	604	EPIDEMIOLOGIC DATA ANALYSIS - COMPUTER LAB	See above		Avery	R	2:00-3:50	
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	
722	001	EPIDEMIOLOGIC ANALYSIS OF TIME-TO-EVENT DATA (4 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; CO-requisite: EPID 722 (601); Permission required for non-majors.	Cole	TR	12:30-1:45	Requires enrollment in recitation section 601

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722	601	EPIDEMIOLOGIC ANALYSIS OF TIME-TO-EVENT DATA *LAB*	Required recitation for EPID 722	*PRE*-requisites: EPID 718 & SAS software expertise; CO-requisite: EPID 722 (001); Permission required for non-majors.	Cole	M	1:25-2:15	
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, EPID 725, at least 1 (preferably 2) substantive EPID course(s), and second year PhD student in EPID.	Daniels, Gammon, Meshnick	TR	11:00-12:15	
733	001	CLINICAL TRIALS IN EPIDEMIOLOGY (3 credits)	Systematic overview of principles in design, implementation and analysis of clinical trials. Emphasis on applications in chronic disease epidemiology. In-depth discussion of case examples from cardiovascular disease epidemiology emphasized.	*PRE*-requisites: EPID 600 & BIOS 600.	Baron, Bangdiwala	TR	9:30-10:45	
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.	*CO*-requisites: EPID 715 & BIOS 545	North	TR	2:00-3:15	
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 dieases; (3) apply principles to specific infectious diseases.	*PRE*-requisite: EPID 751 Permission required for non-majors.	Pettifor	TR	2:00-3:15	
759	01W	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. This course is part of the Field Epi Certificate Program. Special permission is required for degree-seeking students.	Yeatts, Alexander	Web-based	N/A	Contact Lorraine Alexander (lorraine_alexander@unc.edu) for permission.

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764	001	HOSPITAL EPIDEMIOLOGY (2 credits)	Comprehensive seminar in hospital infection control. Topics include issues in employee health, surveillance, outbreak investigation, environmental samplings and policy formation.	CO-requisite: EPID 600 or equivalent	Weber, Vavalle	T	8:00-9:50	You must select TWO credits when enrolling
770	001	CANCER EPIDEMIOLOGY AND PATHOGENESIS (3 credits)	Fundamental concepts in the context of specific cancers, including biologic mechanisms, genetic and environmental factors, social and public health issues, major studies and their interpretation.	*PRE*-requisites: EPID 710 or equivalent; undergraduate major or strong preparation in the biological sciences. Permission required for non-majors	Troester	TR	9:30-10:45	
785	001	ENVIRONMENTAL EPIDEMIOLOGY (3 credits)	Methods for evaluating the health consequences of environmental and occupational hazards are presented. Topics include exposure assessment, disease surveillance, sources of bias, environmental injustice, and research collaborations with exposed populations. Three lecture hours per week.	*PRE*-requisites: EPID 710 & BIOS 600	Engel, L	MW	9:05-10:20	
786	001	COMMUNITY-DRIVEN EPIDEMIOLOGY AND ENVIRONMENTAL JUSTICE (2 credits)	An introduction to concepts and methods in community-driven environmental justice research and present opportunities for active involvement in problem-solving. Topics include: public health and social justice; collaborative development of community-driven research questions; etc.	CO-requisites: EPID 600 & BIOS 600 or equivalents. Enrollment restricted to EPID majors until November 16 at which time it opens up to all SPH grad students if space is available	Wing	W	1:25-3:15	

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799A	001	EPIDEMIOLOGY OF CHRONIC KIDNEY DISEASE (1 credit)	This course aims to provide an overview of clinical and population-based concepts of chronic kidney disease (CKD) and its relation to health outcomes. The course will provide students with: 1) knowledge on renal physiology and the use of biomarkers to estimate kidney function and to classify CKD in research settings; 2) a basic understanding of the genetic and environmental risk factors for CKD, and of racial/ethnic disparities in the burden of CKD; 3) associations of CKD with health outcomes; 4) awareness of resources, databases and analytic tools for research on CKD. The course includes guess lectures, a focused data analysis, and student-led discussions.		Franceschini	TR	9:30-10:45	Course meets from 1/11/16 to 2/16/16
799A	002	SOCIAL EPIDEMIOLOGY SEMINAR (1 credit)	The purpose of this seminar is to provide training opportunities for students with an interest in social epidemiology, including methods, communication and research skills.	Permission of instructor required if non-EPID major	Feinstein	W	12:20-1:10	
799B	001	SPECIAL TOPICS IN PHARMACOEPIDEMIOLOGY: PHARMACOEPIDEMIOLOGY OF OLDER ADULTS- RESEARCH CHALLENGES AND OPPORTUNITIES (2 credits)	This course will provide students with: 1) an understanding of how normal aging processes influence the use of medical interventions (e.g., drugs, vaccines, biologics, medical devices, and surgery), 2) the knowledge base to identify unique research opportunities and challenges in pharmacoepidemiology and comparative effectiveness research of older adult populations, and 3) the tools to apply cutting-edge epidemiologic study design and analytic methods to address these specific research challenges. Some classes will include guest lecturers from across multiple disciplines including geriatrics, clinical pharmacy, oncology, health policy and palliative care.	*PRE*-requisite: EPID 765 or equivalent.	Lund, Stürmer	F	9:05-11:35	Course meets from 1/11/16 to 3/18/16

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799C	001	SOCIAL JUSTICE AND EQUALITY: IN SEARCH OF JOHN CASSEL'S EPIDEMIOLOGY (3 credits)	This seminar course will examine how racial/ethnic/economic health disparities and ecosystem degradation result from political, economic, and institutional behavior distorted by potentially modifiable social, biological, and environmental influences on action, thoughts, and consciousness.		Schoenbach, Jenkins	TR	11:00-12:15	
799C	002	ADVANCED METHODS IN INFECTIOUS DISEASE EPIDEMIOLOGY (3 credits)	This course will cover concepts, theory, study designs, and analytical methods of particular importance in infectious disease epidemiology, including dynamic transmission modeling. Most topics will be introduced with a didactic lecture and readings, followed by an in-class exercise or computer practical applying relevant theories, concepts, and methods to data. Course content will also include class discussions of relevant scientific articles; two take-home problem sets; a short, guided paper; and group presentations.	*PRE*-requisites: EPID 715 & 716	Powers	F	10:10-1:10	
799C	003	VACCINE EPIDEMIOLOGY (3 credits)	This course will include an overview of vaccinology principals, mechanisms of action, and herd protection. Students will obtain an in-depth understanding of how vaccines are produced by industry and evaluated in clinical trials. For public health programs, implementation of immunization programs will also be covered, including the Advisory Committee on Immunization Practices and how to best optimize population acceptability of vaccination.		Smith	M	3:35-6:35	
803	001	CLINICAL RESEARCH SKILLS II: MEASUREMENT IN CLINICAL RESEARCH (2 credits)	This course addresses measurement in clinical research, including reliability and validity, scale development, use of scales and bias associated with measurement error.	*PRE*-requisite: EPID 711 or equivalent.	Miller	T	3:30-5:15	

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804	001	DESIGN OF CLINICAL RESEARCH (3 credits)	This course is designed for students interested in a career in clinical research. The course will focus on the design of clinical studies, excluding traditional clinical trials, essential for a clinical researcher.	*PRE*-requisite: EPID 711 or equivalent. Permission of instructor required if not in MSCR program.	Loehr	TR	2:00-3:15	
806	001	CLINICAL RESEARCH SKILLS IV: PROPOSAL DEVELOPMENT -- PART 2 (2 credits)	Practical research skills for clinical investigators, including grant application, instrument development, project management, data management, data analysis, and the communication of research results.	*PRE*-requisites: EPID 711 & EPID 805 Permission of instructor required if not in MSCR program.	Gaynes, Miller	F	2:30-4:20	
813	001	NUTRITIONAL EPIDEMIOLOGY (cross-listed with NUTR 813; administering department: NUTR) (3 credits)	This course focuses on exposure measurement and builds the foundation for critical evaluation of the nutritional epidemiologic literature.	*PRE*-requisites: EPID 600 & BIOS 600 or equivalents.	Mendez	TR	9:30-10:45	
827	001	SOCIAL EPIDEMIOLOGY: ANALYSIS & INTERPRETATION (3 credits)	Approaches to social epidemiologic data and application/interpretation of various analytic methods. Topics include multilevel models, econometric and psychometric techniques, and issues in causal inference.	*PRE*-requisites: EPID 715 & BIOS 545	Robinson	R	2:00-3:55	
853	001	ADVANCED PERINATAL/PEDIATRIC EPIDEMIOLOGY (2 credits)	Critical review of current topics in, and methods for, perinatal and pediatric epidemiology.	*PRE*-requisites: EPID 710 & EPID 851	Olshan	F	9:05-11:00	
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

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889	001	TOPICS IN EPIDEMIOLOGY: METHODS AND APPLICATIONS OF CARDIOVASCULAR DISEASE SURVEILLANCE (1 credit)	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 735 or permission of instructor	Rosamond	M	2:30-4:10	Course meets 1/11/16 through 2/29/16
889	002	TOPICS IN EPIDEMIOLOGY: EPIDEMIOLOGY OF STROKE (1 credit)	Course will cover three major contemporary topics CVD epidemiology. For 2012 these topics will be epidemiology of stroke, heart failure epidemiology, and outcomes research in cardiovascular disease. Students will gain experience in the critique of methods specific to each topic. The course will also focus on review of current research directions in each of these areas.	*PRE*-requisite: EPID 735 or permission of instructor	Rosamond	M	2:30-4:10	Course meets 3/7/16 through 4/25/16
889	003	TOPICS IN EPIDEMIOLOGY: EPIDEMIOLOGY OF HYPERTENSION (1 credit)	In this 8-session module, we will examine several contemporary issues related to hypertension research, particularly pertaining to measurement of blood pressure. Each session will begin with an overview, likely didactic, followed by more in-depth disucssion of the topics.	*PRE*-requisite: EPID 735 and EPID major or permission of instructor	Viera	W	1:25-3:10	Course meets 3/9/16 through 4/27/16
890	001	MSPH SEMINAR		First year MSPH/PhD EPID majors	Thomas, Jönsson Funk	F	12:20-2:10	
892	001	INTERDISCIPLINARY SEMINAR IN HEALTH DISPARITIES (1 credit)	This seminar will provide an opportunity for students to synthesize knowledge across disciplines and to develop an interdisciplinary approach to addressing their identified health disparities research topic.	*PRE*-requisite: MHCH 756 or permission of instructor	Vines	F	1:25-2:15	
893	001	PHARMACOEPIDEMIOLOGY SEMINAR (1 credit)	This is a weekly seminar to explore current problems in pharmacoepidemiology. It supplements the introductory course Epidemiology 765.		Layton	M	3:35-4:25	

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894	001	INFECTIOUS DISEASE SEMINAR (1 credit)	Detailed review of selected topics in infectious disease epidemiology.	*PRE*-requisite: ID epi student taking substantive QE in Fall 2015. Permission of instructor required.	Powers	R	3:30-4:20	Obtain permission from Dr. Powers and then forward email and PID to epidemiology@unc.edu authorizing enrollment
896	001	SEMINAR IN CLINICAL RESEARCH/PROFESSIONAL DEVELOPMENT (1 credit)	Practical topics pertinent to clinical research will be presented by faculty on campus and from local industry. Fellows in the Clinical Research Curriculum will also present their work.	MSCR and EPID MPH majors only, or K-30 program (Translational Research Curriculum) participants only	Miller, Gaynes, Weinberger, Perrin, Ransohoff, Henning, Loehr	F	12:20-2:15	
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	Heiss	T	12:30-1:20	Obtain permission from Dr. Heiss and have him send an email to epidemiology@unc.edu authorizing enrollment
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	Register in the section assigned to the specific instructor (see campus schedule). Use section 001 if instructor does not have own section (must be done through EPID registrar's office)
992	001 and others	MASTER'S PAPER (3 credits)	**DO NOT ENROLL WITHOUT YOUR ADVISOR'S APPROVAL.**	Permission of instructor required, but you can register yourself.	Various faculty	TBA	TBA	
994	001 and others	DOCTORAL DISSERTATION (3 credits)	**DO NOT ENROLL WITHOUT YOUR ADVISOR'S APPROVAL.**	Permission of instructor required, but you can register yourself.	Various faculty	TBA	TBA	