The College of Public Health at Kent State University has been accredited by the Council on Education for Public Health (CEPH) as a school of public health. Being an accredited institution adds great value to degrees conferred and ensures a comprehensive student experience. A continual self-evaluation program is required by CEPH for accreditation. At the core of this program, it is required that the college solicit and respond to feedback from our students. Accordingly, it is an expectation of the college that students earnestly participate in providing accurate and timely feedback to the college in the form of Student Surveys of Instruction (SSI) as well as annual exit and alumni satisfaction surveys. Participation in the feedback process will assist in the College's accreditation process and will allow the administration and faculty to quickly identify and address any problems as they arise, thus enhancing the quality of the academic experience in the college.

Students who fail to complete the required surveys may be prevented from future term registration.

### College of Public Health Faculty

- Alemagno, Sonia (2009), Professor and College Dean, Ph.D., Case Western Reserve University, 1990
- Beaird, Heather (2011), Associate Professor, Ph.D., Case Western Reserve University, 2005
- Bhargava, Tina D. (2012), Associate Professor, Ph.D., University of Pittsburgh, 2012
- Bhatta, Madhav P. (2009), Associate Professor, Ph.D., University of Alabama-Birmingham, 2007
- Chatfield, Sheryl L. (2015), Assistant Professor, Ph.D., University of Mississippi, 2014
- Cheruvu, Vinay K. (2010), Associate Professor, Ph.D., Case Western Reserve University, 2012
- Eng, Abbey L. (2006), Associate Professor, Ph.D., Bowling Green State University, 2007
- Hallam, Jeffrey S. (2013), Professor and Department Chair, Ph.D., The Ohio State University, 1995
- Hoornbeek, John A. (2006), Associate Professor, Ph.D., University of Pittsburgh, 2004
- James, Mark A. (2010), Professor and Associate Dean, Ph.D., University of Illinois-Urbana-Champaign, 1979
- Jefferis, Eric S. (2002), Professor, Ph.D., University of Cincinnati, 2004
- Kenne, Deric (2011), Associate Professor, Ph.D., University of Akron, 2010
- Knight, Kristina N. (2015), Assistant Professor, Ph.D., Kent State University, 2014
- Lanese, Bethany (2015), Assistant Professor, Ph.D., Wayne State University, 2004
- Leahy, Peter (2016), Professor, Ph.D., Syracuse University, 1975
- Phillips, Lynette (2010), Associate Professor, Ph.D., University of North Carolina-Chapel Hill, 2007
- Shaffer-King, Elizabeth L. (2009), Lecturer, M.A., State University of New York at Albany, 1984
- Smith, Tara C. (2013), Associate Professor, Ph.D., University of Toledo, 2012
- Staley, John (2009), Assistant Professor, Ph.D., University of North Carolina-Chapel Hill, 2008
- Stedman-Smith, Maggie (2009), Assistant Professor, Ph.D., University of Minnesota-Twin Cities, 2008

### Undergraduate Programs

- Public Health - B.S.P.H.

### Minors

- Environmental Health Sciences
- Health Services Administration
- Public Health

### Graduate Programs

- Clinical Epidemiology - M.S.
- Public Health - M.P.H.
- Public Health - Ph.D.

### Undergraduate Certificates

- Public Health

### Accreditation Feedback Policy

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- Kenne, Deric (2011), Associate Professor, Ph.D., University of Akron, 2010
- Knight, Kristina N. (2015), Assistant Professor, Ph.D., Kent State University, 2014
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- Stedman-Smith, Maggie (2009), Assistant Professor, Ph.D., University of Minnesota-Twin Cities, 2008
Biostatistics (BST)

**BST 50196 **INDIVIDUAL INVESTIGATION IN BIOSTATISTICS ** 1-3 Credit Hours
( repeatable for maximum 6 credits) Individual graduate investigation or research in areas related to biostatistics.

**Prerequisite:** graduate standing and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**BST 52019 **BIOSTATISTICS IN PUBLIC HEALTH ** 4 Credit Hours
Provides students with an understanding of basic statistical methods in public health research, as well as the skills to perform and interpret basic statistical procedures. Students learn how to use statistical analysis software to analyze real data from public health-related studies. They then learn how to interpret the analysis and present the results to public health professionals and educated lay audiences. Includes lab component which enhances student awareness and informed usage of SAS for public health analysis. Students learn how to input, read, store, export, and modify data in SAS and be able to use common SAS procedures to analyze public health data and conduct independent SAS programming.

**Prerequisite:** graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BST 60195 **SPECIAL TOPICS IN BIOSTATISTICS ** 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Special topics to sample new offerings on topics in biostatistics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**BST 62020 **DATA MANAGEMENT AND LOGIC USING SAS® SOFTWARE ** 3 Credit Hours
(Slashed with BST 82020) This course introduces graduate students to SAS® software, reading external data into SAS software, use of SAS data step, basic SAS functions, logical data steps for data management, and different SAS procedures for creating summary reports, graphical displays, and conducting basic statistical analysis using the SAS software. SAS Lab sessions are designed to mimic real time challenges working with different kinds of data and learn how to meet such challenges. By the end of the course, students will achieve competency in proper and efficient use of SAS software.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BST 63012 **SURVIVAL ANALYSIS IN PUBLIC HEALTH ** 3 Credit Hours
Introduction in survival analysis for graduate students in public health. Covers survival functions, hazard rates, types of censoring and truncation. Methods of focus include life tables, Kaplan-Meier plots, log-rank tests, Cox regression models and parametric survival models. Inference for recurrent event and competing risks models are also covered.

**Prerequisite:** BST 52019 and 63014; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BST 63013 **EXPERIMENTAL DESIGNS IN PUBLIC HEALTH RESEARCH ** 3 Credit Hours
Introduces students to experimental research methods, in public health settings. First introduces a number of quasi-experimental and experimental study designs, then identifies a number of statistical methods that can be used to draw correct causal inferences from the study.

**Prerequisite:** BST 52019 and 63014; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BST 63014 **APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA ** 3 Credit Hours
(Cross-listed with BST 83014) Focuses on developing student proficiency in building and evaluating various regression models for public health studies. Topics covered include exploratory and descriptive methods, simple and multiple linear regression models, predictor selection, binary and multinomial logistic regression models, survival analysis, repeated measures and generalized linear models.

**Prerequisite:** BST 52019 and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter
BST 63015 CATEGORICAL DATA ANALYSIS OF PUBLIC HEALTH DATA
3 Credit Hours
(Cross-listed with BST 83015) Provides an applied introduction to the most important methods for analyzing categorical data in public health. Topics covered include contingency tables, logistic regression, generalized linear models, modeling matched pairs and clustered responses.
Prerequisite: BST 52019 and EPI 52017; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BST 73011 MULTIVARIATE ANALYSIS IN PUBLIC HEALTH 3 Credit Hours
Multivariate statistical methods are designed to evaluate more than one variable at a time. An application-oriented introduction to essential multivariate statistical methods used in public health. Topics covered include matrix theory, data screening and preliminary analyses, multivariate normal distributions, multivariate versions of the general linear model (MANOVA, multivariate multiple regression, MANCOVA), discriminant and classification, canonical correlation analysis, and methods of analyzing covariance and correlation structures (principal components and factor analysis). Also introduces and explores methods of handling missing data.
Prerequisite: BST 52019 and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BST 82020 DATA MANAGEMENT AND LOGIC USING SAS® SOFTWARE
3 Credit Hours
(Slashed with BST 62020) This course introduces graduate students to SAS® software, reading external data into SAS software, use of SAS data step, basic SAS functions, logical data steps for data management, and different SAS procedures for creating summary reports, graphical displays, and conducting basic statistical analysis using the SAS software. SAS Lab sessions are designed to mimic real time challenges working with different kinds of data and learn how to meet such challenges. By the end of the course, students will achieve competency in proper and efficient use of SAS software.
Prerequisite: Doctorate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BST 83012 SURVIVAL ANALYSIS IN PUBLIC HEALTH 3 Credit Hours
Covers survival functions, hazard rates, types of censoring and truncation. Methods of focus include life tables, Kaplan-Meier plots, log-rank tests, Cox regression models and parametric survival models. Inference for recurrent event and competing risks models are also covered.
Prerequisite: BST 52019; and BST 63014 or 83014; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BST 83013 EXPERIMENTAL DESIGNS IN PUBLIC HEALTH RESEARCH
3 Credit Hours
Designed to introduce students to experimental research methods, in public health settings. First introduces a number of quasi-experimental and experimental study designs, then identifies a number of statistical methods that can be used to draw correct causal inferences from the study. Students are expected to develop two research proposals, first using quasi-experimental then an experimental design and develop a statistical analysis plan for each study.
Prerequisite: BST 52019; and BST 63014 or 83014; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BST 83014 APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA
3 Credit Hours
(Cross-listed with BST 63014) Focuses on developing student proficiency in building and evaluating various regression models for public health studies. Topics covered include exploratory and descriptive methods, simple and multiple linear regression models, predictor selection, binary and multinomial logistic regression models, survival analysis, repeated measures and generalized linear models.
Prerequisite: BST 52019 and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BST 83015 CATEGORICAL DATA ANALYSIS OF PUBLIC HEALTH DATA
3 Credit Hours
(Cross-listed with BST 63015) Provides an applied introduction to the most important methods for analyzing categorical data in public health. Topics covered include contingency tables, logistic regression, generalized linear models, modeling matched pairs, mixed models for categorical data and clustered responses. Prerequisites: BST 52019 and EPI 52017; and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Environmental Health Sciences (EHS)

EHS 50060 PUBLIC HEALTH LABORATORY METHODS 3 Credit Hours
This course introduces the student to the fundamental theory and hands on use to track specimen collection and laboratory analysis. Environmental specimens will be examined for their public health importance using classical and modern techniques. The student will spend time learning classical laboratory methods and their modern use in the laboratory environment. Examples include culture and microscopic identification of microorganisms, identification of disease vectors, detection of newborn disease and detection of terrorism agents.
Prerequisites: PH 30006 or CHEM 10062 or CHEM 10971 or BSCI 30140 or instructor approval
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 1 lab
Grade Mode: Standard Letter
EHS 50109 LABORATORY SAFETY AND HYGIENE 3 Credit Hours
(Crosslisted with EHS 40109) Basic introduction to laboratory safety, chemical hygiene, and biosafety. Includes the research compliance programs of institutions (IBC, IACUC, IRB, RSC) and the OSHA Chemical Hygiene Standard requirements and program responsibilities. General lab safety concepts are reviewed, along with chemical handling and storage, fumehoods and ventilation, hazardous waste disposal, radiation safety, and lab design. Basic principles of biosafety are covered, BSL 1-4 levels, biosafety cabinets, select agents, bloodborne pathogens, NIH Guidelines, biosecurity and animal use.
Prerequisite: Graduate standing.
Schedule Type: Field Experience, Lecture
Contact Hours: 2.67 lecture, .33 other
Grade Mode: Standard Letter

EHS 50196 INDIVIDUAL INVESTIGATION IN ENVIRONMENTAL HEALTH SCIENCES 1-3 Credit Hours
(repeatable for maximum 6 credits) Individual graduate investigation or research in areas related to environmental health sciences.
Prerequisite: graduate standing and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

EHS 52018 ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH 3 Credit Hours
Provides a comprehensive overview of the core topics in environmental health as related to public health.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHS 53009 EMERGING ENVIRONMENTAL HEALTH ISSUES AND RESPONSE 3 Credit Hours
Provides an overview of emerging environmental health issues that will impact the public's health.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHS 53012 OCCUPATIONAL SAFETY AND HEALTH 3 Credit Hours
Survey of major concepts and issues relating health and safety in the workplace. Emphasis is on the application of public health principles and decision-making practices used by various worker populations for the prevention of injury and disease on the job. This course will cover protective equipment, hazardous conditions, environmental toxins, risk assessment, prevention science approaches and workplace health promotion.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHS 53014 BUILT ENVIRONMENT AND PUBLIC HEALTH 3 Credit Hours
The focus of this course is on preventing disease and injury while improving the health of populations by looking “upstream” at the built environment or those settings designed, created, and maintained by human efforts. Public health effects of community design will be explored, including transportation, land use, parks and green space in the context of physical activity, food environments, air and water quality, injury prevention, social capital and health disparities. Components of healthy communities will be explored in the home, workplace, schools, and health care facilities. Students will examine strategies for creating sustainable health places consistent with the ecological model, through multidisciplinary collaboration, research, and policy to promote the health of populations.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EHS 60191 VARIABLE CONTENT SEMINAR IN ENVIRONMENTAL HEALTH SCIENCES 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Seminar on current and important topics in environmental health sciences. Subject matter varies depending on the topic.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

EHS 60192 PRACTICUM EXPERIENCE IN ENVIRONMENTAL HEALTH SCIENCES 1-6 Credit Hours
Observational and participation in public health activities of a public health agency, hospital or other approved organization. The student completes the field experience with joint supervision from the university and approved organization or agency.
Prerequisite: graduate standing and special approval.
Schedule Type: Practicum or Internship
Contact Hours: 20 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EHS 60195 SPECIAL TOPICS IN ENVIRONMENTAL HEALTH SCIENCES 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Special topics to sample new offerings on topics in environmental health sciences.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EHS 63010 APPLIED RISK ASSESSMENT 3 Credit Hours
Introduces the student to environmental and occupational hazards, assessing the risks associated with hazard exposure. Standard principles of risk assessment are emphasized including methods of hazard identification and regulation, quantitative exposure measurement, dose and toxicity relationships and risk management. Analysis of public policy regulatory guidance and health advisory watchdog recommendations are evaluated.
Prerequisite: EPI 52017 and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Epidemiology (EPI)

EPI 50013  CLINICAL EPIDEMIOLOGY BASICS  3 Credit Hours
(Slashed with PH 40013) The purpose of this course is to develop an understanding of clinical research, Good Clinical Practices, research environments, and methods used in clinical research. The student will gain an understanding of the use of clinical investigation from the product development stage to the application of investigations in contract research organization. Ethical implications and regulatory issues will be examined.
Prerequisite: BST 52019 and EPI 52017; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 50014  CLINICAL TRIALS MANAGEMENT  3 Credit Hours
(Slashed with PH 40014) This course will further examination of the Good Clinical Practices guidelines. Students will learn how to conduct and manage clinical trials, understand clinical trials data, develop instruments and protocols, recognize quality control and data issues, know approaches to recruitment, retention, and participant assessment, identify adverse events and measurement of response variables, and acquire skill in study close-out procedures.
Prerequisite: BST 52019, EPI 52017 and EPI 63019; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 50015  SCIENTIFIC WRITING FOR CLINICAL RESEARCH  3 Credit Hours
(Slashed with PH 40015) Clinical researchers must be able to demonstrate skill in scientific writing to communicate findings to the science community and the general population. This course will allow students to develop proficiency in scientific reading, conducting presentations, and writing. It will include examination of the science literature in clinical trials research.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 5017  PHARMACOEPIDEMIOLOGY  3 Credit Hours
(Slashed with PH 40017) This course is an introduction to the field of pharmacoepidemiology. Pharmacoepidemiology uses epidemiology methods to understand medication use and distribution at the population level. The class will examine risk-benefit and epidemiology approaches to examining medication use and therapeutic trials. Drug and device manufacturing to market will be explored.
Prerequisite: BST 52019 and EPI 52017; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 50018  REGULATORY AFFAIRS IN CLINICAL RESEARCH  3 Credit Hours
(Slashed with PH 40018) Students will develop an understanding of the researcher and organization responsibility in research and development of clinical trials products. Students will understand regulations from the government and industry, privacy concerns, liability, and ethical issues related to clinical trials research. Examples from the field will be explored in detail.
Prerequisite: EPI 52017.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 50017  PHARMACOEPIDEMIOLOGY  3 Credit Hours
(Slashed with PH 40017) This course is an introduction to the field of pharmacoepidemiology. Pharmacoepidemiology uses epidemiology methods to understand medication use and distribution at the population level. The class will examine risk-benefit and epidemiology approaches to examining medication use and therapeutic trials. Drug and device manufacturing to market will be explored.
Prerequisite: BST 52019 and EPI 52017; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
EPI 60191 VARIABLE CONTENT SEMINAR IN EPIDEMIOLOGY 1-3 Credit Hours
(Repeatable for credit) (Cross-listed with EPI 80191) Seminar on current and important topics in epidemiology. Subject matter varies depending on the topic.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EPI 60192 PRACTICUM EXPERIENCE IN EPIDEMIOLOGY 1-6 Credit Hours
Observational and participation in public health activities of a public health agency, hospital or other approved organization. The student completes the field experience with joint supervision from the university and approved organization or agency.
Prerequisite: Graduate standing and special approval.
Schedule Type: Practicum or Internship
Contact Hours: 20 other
Grade Mode: Satisfactory/Unsatisfactory/IP

EPI 60195 SPECIAL TOPICS IN EPIDEMIOLOGY 1-3 Credit Hours
(Repeatable for a maximum 6 credit hours) (Cross-listed with EPI 80195) Special topics to sample new offerings on topics in epidemiology.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EPI 63014 EPIDEMIOLOGY OF CHRONIC DISEASES 3 Credit Hours
(Slashed with EPI 83014) With a life course approach to chronic disease epidemiology, this course focuses on cardiovascular, respiratory, cerebrovascular diseases and cancer. Health and disease are addressed from a multicausal perspective which includes individual behaviors, psychosocial issues, and sociodemographic, biological, and physiological factors. Time points for prevention and intervention are identified.
Prerequisite: EPI 52017 and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 63015 EPIDEMIOLOGY OF INFECTIOUS DISEASES 3 Credit Hours
(Slashed with EPI 83015) Surveys the history, principles, methods and practice of infectious disease epidemiology, by (1) defining and understanding infectious disease epidemiology surveys, (2) collecting and measuring surveillance data, (3) interpreting epidemiology data and (4) predicting evidence-based outcomes. Primarily a course in epidemiology. Students learn some infectious disease microbiology as well.
Prerequisite: EPI 52017 and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 63016 PRINCIPLES OF EPIDEMIOLOGIC RESEARCH 3 Credit Hours
(Slashed with EPI 83016) Builds on the fundamental epidemiology course to explore deeper the concepts and methods in epidemiologic research. Reviews the measures of disease frequency, association and impact, and epidemiologic reasoning and causal inference, and covers methods and techniques for designing, implementing, analyzing, and interpreting various epidemiologic study designs. Discusses advantages and limitations of various study designs and explores threats to validity, precision, and generalizability of epidemiologic studies.
Prerequisite: BST 52019 and EPI 52017; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 63017 EPIDEMIOLOGICAL ANALYSIS 3 Credit Hours
(Cross-listed with EPI 83017) Provides practical instruction in the analysis and interpretation of data from various epidemiologic study designs including cross-sectional, case-control and cohort studies. Reviews statistical concepts and epidemiologic studies designs, outlines a strategy for data analysis and reviews relevant methodologic issues and applies stratified analysis methods and multivariable regression models to the studies. Develops an understanding of the underlying principles and assumptions, practical application, and correct interpretation of the epidemiologic results. Provides hands on experience on the application of epidemiologic analysis methods and presentation of the results.Prerequisites: BST 52019 and BST 63014; and EPI 52017 and 63016; and graduate standing
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 63018 OBSERVATIONAL DESIGNS FOR CLINICAL RESEARCH 3 Credit Hours
(Slashed with EPI 83018) This class provides students the skill to design, conduct, and perform clinical epidemiology studies using an observational design. Students will understand major concepts of clinical research, develop clinical research questions, and solve clinical research problems. Topics will include: Study design, risk, causation, exposures, bias, measurement and validity, and disease prognosis.
Prerequisite: EPI 52017 and BST 52019 and Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 63019 EXPERIMENTAL DESIGNS FOR CLINICAL RESEARCH 3 Credit Hours
(Slashed with EPI 83019) Principles of experimental designs as they apply to clinical research and clinical trials will be presented at an intermediate level. Students will understand randomized control trial designs and alternative designs. Study methodology including randomization and blinding techniques will be covered. Topics will include: Evidence-based medicine, risk prediction and risk scores, instruments and measurement, data issues, and recruitment, retention, and adherence.
Prerequisite: EPI 63018 and Graduate standings.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
EPI 63020 ADVANCED EPIDEMIOLOGY AND CLINICAL RESEARCH METHODS 3 Credit Hours
(Slashed with EPI 83020) This advanced class will focus on why particular methods, study designs, or approaches are used in particular investigative scenarios in clinical research. Students will develop and advanced understanding and application of epidemiology methods in clinical research.
Prerequisite: EPI 63018 and EPI 63019 and Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 63021 ETHICAL ISSUES IN PUBLIC HEALTH AND CLINICAL RESEARCH 3 Credit Hours
(Slashed with EPI 83021) Introduces students to historical and contemporary ethical issues that arise during public health and clinical or biomedical research studies. Broadly covers human subjects research, the responsible conduct of research, and the Good Clinical Practice Guidelines.
Prerequisite: EPI 52017 and Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 63034 LONGITUDINAL DATA ANALYSIS 3 Credit Hours
(Cross-listed with EPI 73034) Statistical techniques for analyzing longitudinal, or repeated measures, data. Focuses primarily on application of the various statistical models covered, with direct application illustrated using standard statistical software. Topics covered include univariate and multivariate analysis of variance for repeated measures, mixed-effects models (HLM or multilevel models), covariance pattern models, generalized estimating equations (GEE), mixed-effects logistic regression models and missing data in longitudinal studies.
Prerequisite: BST 52019 and 63014; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 63192 RESEARCH PRACTICUM IN CLINICAL EPIDEMIOLOGY 1-6 Credit Hours
Research practicum allows students to gain hands on experience conducting research in a clinical setting such as a hospital or other approved organization. The student completes the experience under the supervision of a field preceptor and faculty member.
Prerequisite: EPI 63018 and EPI 63019 and Graduate standing.
Schedule Type: Practicum or Internship
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPI 63199 THESIS I 2-6 Credit Hours
Student must register for a total of 6 credit hours in the program. Student may register for 2 to 6 hours in a single semester
Prerequisite: Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPI 63299 THESIS II 2 Credit Hours
Thesis students must continue registration in Thesis II each semester until all degree requirements are met.
Prerequisite: EPI 63199 and Graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Standard Letter-S/U-IP

EPI 72017 FUNDAMENTALS OF PUBLIC HEALTH EPIDEMIOLOGY 3 Credit Hours
(Slashed with EPI 52017) Introduces principles, methods, and application of epidemiology. Covers the history of epidemiology, concepts of disease causation and prevention, measures of disease frequency and excessive risk, epidemiologic study designs, causal inference, outbreak investigation and screening. Provides experience with calculation of rate standardization, measures of disease frequency, association, and impact, and sensitivity and specificity of screening tests. Highlights applications of epidemiology to understanding of disease etiology, transmission, pathogenesis, and prevention, evaluation and public policy development.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 72028 METHODS OF EVIDENCE BASED PUBLIC HEALTH 3 Credit Hours
(Slashed with EPI 52058) Explores tools and techniques used to quantitatively determine the effectiveness of public health interventions in the social sciences.
Prerequisite: doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 73025 EMERGING ISSUES IN INFECTIONOUS DISEASE EPIDEMIOLOGY 3 Credit Hours
Investigates global emerging and reemerging infectious diseases. Students evaluate root causes of infectious disease emergence and predict outcomes. Data from primary literature is used to predict alternate outcomes. Specific disease models are used to evaluate and compare prevention, treatment and eradication strategies.
Prerequisite: doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 73026 DESIGN AND IMPLEMENTATION OF HEALTH SURVEYS 3 Credit Hours
Covers survey design, variable construction, survey administration and data collection methods, variable coding and manipulation, and data analysis. Students will understand sampling methods, and sample size. Large health surveys are discussed. Students gain practical experience through design and implementation of a health survey which can be used to facilitate dissertation research or a publication.
Prerequisite: doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
EPI 73027 BIOLOGICAL BASIS OF PUBLIC HEALTH 3 Credit Hours
Integrates the sciences of biology and molecular biology into the principles and practice of public health. Implicit in this course are learning objectives that establish the ecology of infectious disease, the impact of vaccines in disease prevention, and the role of environmental toxins on human health and disease. Additionally, students propose policy, regulations and legislation designed to protect human health within the realm of personalized medicine.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 73029 PUBLIC HEALTH SURVEILLANCE SYSTEMS 3 Credit Hours
Introduces students to surveillance systems of both infectious and non-infectious diseases as well as intentional and non-intentional injury. Students are exposed to the theory and practice of surveillance illustrated with examples existing systems from around the world. Culminates in a project where the student creates and evaluates a surveillance system of their own design.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 73033 ENVIRONMENTAL EPIDEMIOLOGY 3 Credit Hours
Comprehensive course on concepts in environmental epidemiology and statistical methods in environmental epidemiology including causal inference models.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 73034 LONGITUDINAL DATA ANALYSIS 3 Credit Hours
(Cross-listed with EPI 63034) Statistical techniques for analyzing longitudinal, or repeated measures, data. Focuses primarily on application of the various statistical models covered, with direct application illustrated using standard statistical software. Topics covered include univariate and multivariate analysis of variance for repeated measures, mixed-effects models (HLM or multilevel models), covariance pattern models, generalized estimating equations (GEE), mixed-effects logistic regression models and missing data in longitudinal studies.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 80195 SPECIAL TOPICS IN EPIDEMIOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Cross-listed with EPI 60195) Special topics to sample new offerings on topics in epidemiology.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EPI 80196 INDIVIDUAL INVESTIGATION IN EPIDEMIOLOGY 1-3 Credit Hours
Individual graduate investigation or research in areas related to epidemiology.
Prerequisite: Doctoral Standing and special approval.
Schedule Type: Individual Investigation
Grade Mode: Standard Letter-IP

EPI 80198 DIRECTED RESEARCH IN EPIDEMIOLOGY 1-15 Credit Hours
(Repeatable for credit) Directed research or individual investigation for doctoral students in Epidemiology concentration. Satisfactory/unsatisfactory (S/U) graded; in-progress (IP) mark permissible.
Prerequisite: Doctoral standing and special approval from department.
Schedule Type: Individual Investigation, Research
Contact Hours: 1-15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPI 80199 DISSERTATION I 15 Credit Hours
(Repeatable for credit) Registration for two semesters required, first semester dissertation work begins and continues until completion of Dissertation II and 30 hours of total dissertation work.
Prerequisite: Doctoral standing and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPI 80299 DISSERTATION II 15 Credit Hours
(Repeatable for credit) Second course of dissertation sequence completing requirement of with 30 total hours of dissertation work.
Prerequisite: EPI 80199; and doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

EPI 83014 EPIDEMIOLOGY OF CHRONIC DISEASES 3 Credit Hours
(Slashed with EPI 63014) With a life course approach to chronic disease epidemiology, this course focuses on cardiovascular, respiratory, cerebrovascular diseases and cancer. Health and disease are addressed from a multicausal perspective which includes individual behaviors, psychosocial issues, and sociodemographic, biological, and physiological factors. Time points for prevention and intervention are identified.
Prerequisite: EPI 52017 and Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
EPI 83015  EPIDEMIOLOGY OF INFECTIOUS DISEASES  3 Credit Hours
(Slashed with EPI 63015) Surveys the history, principles, methods and practice of infectious disease epidemiology, by (1) defining and understanding infectious disease epidemiology surveys, (2) collecting and measuring surveillance data, (3) interpreting epidemiology data and (4) predicting evidence-based outcomes. Primarily a course in epidemiology. Students learn some infectious disease microbiology as well.
Prerequisite: EPI 52017 and Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 83016  PRINCIPLES OF EPIDEMIOLOGIC RESEARCH  3 Credit Hours
(Slashed with EPI 63016) Builds on the fundamental epidemiology course to explore deeper the concepts and methods in epidemiologic research. Reviews the measures of disease frequency, association and impact, and epidemiologic reasoning and causal inference, and covers methods and techniques for designing, implementing, analyzing, and interpreting various epidemiologic study designs. Discusses advantages and limitations of various study designs and explores threats to validity, precision, and generalizability of epidemiologic studies.
Prerequisite: BST 52019 and EPI 52017; and Doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 83017  EPIDEMIOLOGICAL ANALYSIS  3 Credit Hours
(Cross-listed with EPI 63017) Provides practical instruction in the analysis and interpretation of data from various epidemiologic study designs including cross-sectional, case-control and cohort studies. Reviews statistical concepts and epidemiologic studies designs, outlines a strategy for data analysis and reviews relevant methodologic issues and applies stratified analysis methods and multivariable regression models to the studies. Develops an understanding of the underlying principles and assumptions, practical application, and correct interpretation of the epidemiologic results. Provides hands-on experience on the application of epidemiologic analysis methods and presentation of the results.
Prerequisite: EPI 63016; BST 83014 and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 83018  OBSERVATIONAL DESIGNS FOR CLINICAL RESEARCH  3 Credit Hours
(Slashed with EPI 63018) This class provides students the skill to design, conduct, and perform clinical epidemiology studies using an observational design. Students will understand major concepts of clinical research, develop clinical research questions, and solve clinical research problems. Topics will include: Study design, risk, causation, exposures, bias, measurement and validity, and disease prognosis.
Prerequisite: EPI 52017 and BST 52019; Doctoral standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 83019  EXPERIMENTAL DESIGNS FOR CLINICAL RESEARCH  3 Credit Hours
(Slashed with EPI 63019) Principles of experimental designs as they apply to clinical research and clinical trials will be presented at an intermediate level. Students will understand randomized control trial designs and alternative designs. Study methodology including randomization and blinding techniques will be covered. Topics will include: Evidence-based medicine, risk prediction and risk scores, instruments and measurement, data issues, and recruitment, retention, and adherence.
Prerequisite: EPI 52017 and BST 52019; Doctoral standings and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 83020  ADVANCED EPIDEMIOLOGY AND CLINICAL RESEARCH METHODS  3 Credit Hours
(Slashed with EPI 63020) This advanced class will focus on why particular methods, study designs, or approaches are used in particular investigative scenarios in clinical research. Students will develop and advanced understanding and application of epidemiology methods in clinical research.
Prerequisite: EPI 83018 and EPI 83019; Doctoral standing and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EPI 83021  ETHICAL ISSUES IN PUBLIC HEALTH AND CLINICAL RESEARCH  3 Credit Hours
(Slashed with EPI 63021) Introduces students to historical and contemporary ethical issues that arise during public health and clinical or biomedical research studies. Broadly covers human subjects research, the responsible conduct of research, and the Good Clinical Practice Guidelines.
Prerequisite: EPI 52017 andDoctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

Health Policy and Management (HPM)

HPM 50196  INDIVIDUAL INVESTIGATION IN HEALTH POLICY AND MANAGEMENT  1-3 Credit Hours
(repeatable for maximum 6 credits) Individual graduate investigation or research in areas related to health policy and management.
Prerequisite: graduate standing and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

HPM 52015  EMERGING ISSUES IN PUBLIC HEALTH POLICY AND MANAGEMENT  3 Credit Hours
An overview of emerging issues in the field of public health.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
HPM 52016  PUBLIC HEALTH ADMINISTRATION  3 Credit Hours
Public health administration comprises efforts to improve the health of communities. Provides an overview for public health administration and practice, including organization, law, legislative relations, financing, workforce issues, leadership and surveillance.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 52017  HEALTHCARE LAW AND REGULATION  3 Credit Hours
Healthcare is one of the most heavily regulated industries in the United States. In order to contain spiraling costs, the federal and state governments are focussing on individual provider conduct in the context of fraud, waste, and abuse scrutiny. This course covers the underlying theories behind healthcare law and regulation as well as specific provisions affecting the organization, delivery, and payment of primary health services. Administrators and clinicians will gain a basic understanding of the regulatory environment and provisions impacting their practice.
Prerequisite: HPM 52016 and Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 53006  COST BENEFIT ANALYSIS IN PUBLIC HEALTH PROGRAMS  3 Credit Hours
Provides an overview of cost-benefit analysis as applied to the evaluation of public health programs. Students apply principles of cost benefit analysis and related cost utility analysis to case studies in the public health sector.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 53007  PUBLIC HEALTH PROGRAMS: PLANNING, IMPLEMENTATION AND EVALUATION  3 Credit Hours
Overview of developing, implementing and evaluating public health programs. Examines how public health programs can target different levels within a population, different determinants of health and strategies and interventions.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 52016  PUBLIC HEALTH ADMINISTRATION  3 Credit Hours
Public health administration comprises efforts to improve the health of communities. Provides an overview for public health administration and practice, including organization, law, legislative relations, financing, workforce issues, leadership and surveillance.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 53003  HEALTH CARE SYSTEMS  3 Credit Hours
Provides a systems approach to delivering health care and public health services in the US. Includes an overview of public health, outpatient, inpatient, managed care, long term care and health services for special populations.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 52017  HEALTHCARE LAW AND REGULATION  3 Credit Hours
Healthcare is one of the most heavily regulated industries in the United States. In order to contain spiraling costs, the federal and state governments are focussing on individual provider conduct in the context of fraud, waste, and abuse scrutiny. This course covers the underlying theories behind healthcare law and regulation as well as specific provisions affecting the organization, delivery, and payment of primary health services. Administrators and clinicians will gain a basic understanding of the regulatory environment and provisions impacting their practice.
Prerequisite: HPM 52016 and Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 53004  PUBLIC HEALTH POLICY, LAW AND ETHICS  3 Credit Hours
Provides a comprehensive review of health policymaking, public health law and ethical principles as applied to public health decision making.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 53005  FINANCIAL MANAGEMENT FOR PUBLIC HEALTH ORGANIZATIONS  3 Credit Hours
Provides an overview of financial management of public health organizations. Topics include planning for public health program budgeting, understanding costs and short and long term financing, accountability and control, reporting results and financial statement and financial conditions analysis.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 53008  FOUNDATIONS FOR EFFECTIVE PUBLIC HEALTH LEADERSHIP  3 Credit Hours
Intended to provide students with an initial exploration of the leadership practices of public health leaders with an understanding of the basic skill set necessary for successful leadership on a continuing basis.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 53009  WHOLE SYSTEMS APPROACHES TO LEADING ORGANIZATIONAL CHANGE IN PUBLIC HEALTH  3 Credit Hours
Intended to provide students with an initial exploration of and overview of whole systems approaches to organizational change in public health settings, a more detailed working knowledge of key whole systems methodologies, and a detailed working knowledge and practical experience with one of the most frequently used and favored whole systems approaches. Pre or corequisite: HPM 53008.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 53010  COMMUNITY HEALTH NEEDS ASSESSMENT  3 Credit Hours
This course covers concepts and methods relevant to community health needs assessment, such as systems thinking, the use of quantitative and qualitative methods, primary and secondary data, and the role of community assessment in current national policy, including the Affordable Care Act and on community health improvement. Students will draw from multiple disciplines to assess health status and its determinants (social, behavioral, and environmental), needs for health services, and the capacity and resources of the local community. Students will also learn to facilitate and evaluate the use of data for decision-making by partnerships, organizations and policy makers.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
HPM 53011  PUBLIC HEALTH EVALUATION METHODS  3 Credit Hours
This course provides an in-depth review of major concepts, methods, and issues involved in evaluating public health programs and policy interventions. Students learn skills needed to conduct and use evaluations, with an emphasis on conceptual, methodological, organizational, political, and ethical aspects associated with public health evaluation. Topics will include development of evaluation questions, types of program evaluation (process, formative, impact, outcome), evaluation design (experimental, quasiexperimental, and nonexperimental designs), collection of evaluation data, and dissemination of evaluation results. Students gain practical experience through a series of exercises. Examples of effective methods and approaches will be elaborated for multiple public health contexts.
Prerequisite: Graduate Standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 53012  OBAMACARE AND NATIONAL HEALTH REFORM  3 Credit Hours
This course provides an overview of health reform in the United States, starting with the history of health reform, the passage of the ACA, and the future of health reform. It includes political and policy discourse leading up to the Patient Protection and Affordable Care Act (ACA) its passage, analysis of the law's impact, Supreme Court rulings and other legal challenges affecting the legislation, and the future of public health and health care in the context of health reform. The impact of health reform on health care financing, quality, and public health will also be covered. Students will draw upon and apply an interdisciplinary literature base to analyze health reform.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 53013  SEX: A WICKED PUBLIC HEALTH PROBLEM  3 Credit Hours
Wicked problems is a term developed in the 1970s by systems thinkers and planners, Horst Rittel and Melvin Webber (1973), to describe complex social problems that are resistant to solution. The term has recently been applied to public health issues that have proven to be difficult to address and resistant to mitigation. Sexual and reproductive health behaviors, attitudes, and cultural norms often produce problems at the individual and population levels that meet the criteria for designation as wicked problems. Effectively addressing these kinds of problems requires a correct understanding and application of public health principles and practices.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 60191  VARIABLE CONTENT SEMINAR IN HEALTH POLICY AND MANAGEMENT  1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Cross-listed with HPM 80191) Seminar on current and important topics in health policy and management. Subject matter varies depending on the topic.
Prerequisites: Graduate standing
Schedule Type: Seminar
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HPM 60192  PRACTICUM EXPERIENCE IN HEALTH POLICY AND MANAGEMENT  1-6 Credit Hours
Observational and participation in public health activities of a public health agency, hospital or other approved organization. The student completes the field experience with joint supervision from the university and approved organization or agency.
Prerequisite: graduate standing and special approval.
Schedule Type: Practicum or Internship
Contact Hours: 20 other
Grade Mode: Satisfactory/ Unsatisfactory-IP

HPM 60195  SPECIAL TOPICS IN HEALTH POLICY AND MANAGEMENT  1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Cross-listed with HPM 80195) Special topics to sample new offerings on topics in health policy and management.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HPM 64002  GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND  3 Credit Hours
(Slashed with HPM 52015) Participants explore a number of health concerns, policies and challenges with global importance and implications. Students investigate current global health policies and themes, and become familiar with the major players in global health including governmental and nongovernmental organizations and multinational agencies. Presentations are given by experts currently working in various regions of the world to solve such pressing global problems as HIV/AIDS, postwar trauma, tuberculosis, refugee health, non-communicable disease prevention and environmental contamination.
Prerequisite: graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 72015  EMERGING ISSUES IN PUBLIC HEALTH POLICY AND MANAGEMENT  3 Credit Hours
(Cross-listed with HPM 52015) An overview of emerging challenges in public health policy and management. Examples include pandemic H1N1 response, bio preparedness, national health care reform, public health financing challenges, global tuberculosis drug resistance.
Prerequisite: doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
HPM 72030  GRANT WRITING IN PUBLIC HEALTH  3 Credit Hours
Doctoral students should take this course at the end of the program of study. Students in this doctoral level course for Public Health learn the basics of grant writing for federal (NIH) and non-federal funding agencies with a particular emphasis on the components required of most grant proposal submitted for funding. This includes rationale for seeking funds, collaborations with community organizations, and working with consultants and subcontractors. Participants also learn about the basic sections of grant writing such as specific aims and hypotheses, developing your literature review, background and significance, research design and methodology, developing a budget, and conducting research with human subjects. Participants have the opportunity to write sample grant proposals, learn about the review and scoring process and post-award grant management.
Prerequisite: doctoral standing and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 73021  HEALTH CARE FINANCE  3 Credit Hours
Covers the financial environment of health services in the US, including accounting principles, financial statement analysis, delivery models, management control processes of budgeting and capital project analysis, managerial accounting, program development and financial plan.
Prerequisite: doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 73022  STRATEGIC MANAGEMENT OF PUBLIC HEALTH ORGANIZATIONS  3 Credit Hours
Covers basic and advanced principles of strategic management of public health organizations including service area analysis, internal environment analysis, developing and evaluating strategic alternatives and quality indicators.
Prerequisite: doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 73023  OPERATIONS MANAGEMENT IN PUBLIC HEALTH  3 Credit Hours
Provides a framework for health care operations management including the history of performance management and tools for applying operations management to public health care delivery systems.
Prerequisite: doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 73031  PUBLIC HEALTH POLICY ANALYSIS  3 Credit Hours
Provides a framework for conducting public health policy analysis. Applies concepts to case studies of health policies at the local, state and Federal levels.
Prerequisite: doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HPM 80191  VARIABLE CONTENT SEMINAR IN HEALTH POLICY AND MANAGEMENT  1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Cross-listed with HPM 60191) Seminar on current and important topics in health policy and management. Subject matter varies depending on the topic.
Prerequisite: Doctoral standing.
Schedule Type: Seminar
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HPM 80195  SPECIAL TOPICS IN HEALTH POLICY AND MANAGEMENT  1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) (Cross-listed with HPM 60191) Special topics to sample new offerings on topics in health policy and management.
Prerequisite: Doctoral standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HPM 80199; and doctoral standing; and special approval.

HPM 80198  DIRECTED RESEARCH IN HEALTH POLICY AND MANAGEMENT  1-3 Credit Hours
(Repeatable for credit) Directed research or individual investigation for doctoral students in the Health Policy and Management concentration.
Prerequisite: doctoral standing and special approval.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-S/U-IP

HPM 80191  DISSERTATION I  15 Credit Hours
(Repeatable for credit) Registration for two semesters required, first semester dissertation work begins and continues until completion of Dissertation II and 30 hours of total dissertation work.
Prerequisite: doctoral standing and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

HPM 80299  DISSERTATION II  15 Credit Hours
(Repeatable for credit) Registration for two semesters required, first semester dissertation work begins and continues until completion of 30 hours.
Prerequisite: HPM 80199; and doctoral standing; and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP
PHM 81000  PUBLIC HEALTH LAW AND REGULATION  3 Credit Hours
Enables participants to describe, apply, and explain key aspects and principles of law, regulation, and policy relating to public health issues and topics. Requires students to master the content material for the course, and apply it to particular (a) topics or issues relating public health. Students also are required to design and conduct a research project and explain their hypotheses, methods, findings and conclusions.
Prerequisite: HPM 52016 and doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PHM 84002  GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND  3 Credit Hours
(Slashed with HPM 64002) Participants explore a number of health concerns, policies and challenges with global importance and implications. Students investigate current global health policies and themes, and become familiar with the major players in global health including governmental and nongovernmental organizations and multinational agencies. Presentations are given by experts currently working in various regions of the world to solve such pressing global problems as HIV/AIDS, postwar trauma, tuberculosis, refugee health, noncommunicable disease prevention and environmental contamination.
Prerequisite: graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Public Health (PH)

PH 10000  EXPLORING CAREERS IN PUBLIC HEALTH  1 Credit Hour
Provides an overview of the diverse career opportunities available in the field. Explores various public health issues from the perspectives of public health professionals from the core disciplines in public health: social behavioral sciences, environmental health, health policy and management, epidemiology and biostatistics. Students learn about how public health professionals approach issues and the types of professional roles and activities they bring to addressing each issue.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PH 10001  INTRODUCTION TO PUBLIC HEALTH  3 Credit Hours
An overview of the evolution and practices of the dynamic field of public health in the United States and globally. Students are introduced to the structure and functions of public health organizations and public health practice.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 10002  INTRODUCTION TO GLOBAL HEALTH (DIVG)  3 Credit Hours
An overview of the biological, social and environmental contributors to health and diseases in populations around the world, including case studies of selected infectious diseases, nutritional deficiencies and health effects of environmental change.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Global

PH 10195  SPECIAL TOPICS IN PUBLIC HEALTH  1-3 Credit Hours
(Repeatable for credit) Subject varies depending on the emerging issue.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PH 20000  PUBLIC HEALTH PROFESSIONAL PRACTICE I  1 Credit Hour
Professional development course designed to expose future public health leaders to the diverse field of public health and develop attainable career goals. Student will begin the development of personal goals and a portfolio of work that will build during the entire program. The understanding of public health as a profession will be fostered.
Prerequisite: sophomore standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PH 20001  ESSENTIALS OF EPIDEMIOLOGY  3 Credit Hours
Students are introduced to the strategies adopted by public health professionals to study distribution and identification of important biologic, social and environmental determinants of diseases and health-related states in specific populations.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 20010  INTRODUCTION TO PUBLIC HEALTH INFORMATICS  3 Credit Hours
Provides an overview of informatics principles applied in public health. Topics addressed include definitions, approaches, competencies, applications and the national health information network. Topical areas are digital literacy, electronic communication, system development, information use, project management, procurement, accountability, research, data standards, databases, human resource management, and confidentiality and security.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 20015  ZOMBIE OUTBREAK  3 Credit Hours
Teaches the basic survival skills necessary to protect you, your family, and the public from a variety of natural and manmade “apocalypses”. Students apply the basics of emergency Public Health management to a zombie outbreak.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
PH 20195 SPECIAL TOPICS IN PUBLIC HEALTH 1-3 Credit Hours
(Repeatable for credit) Subject varies depending on the emerging issue.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PH 22001 PLAGUES AND PANDEMICS: HOW INFECTION SHAPED CULTURE AND HISTORY 3 Credit Hours
Infectious diseases continue to affect us all in the present, and plagues have shaped the course of history. From the Justinian plague in the 6th Century to the decimation of Native populations in the US by smallpox to the 1918 influenza pandemic, human history has been influenced by microbes—and our culture, in turn, can affect the generation of new plagues. This course is appropriate both for humanities majors looking for an introduction to infectious diseases as well as science majors looking to better understand infectious diseases in their historical and cultural context, and the way these diseases have (and continue to) shape history. Ultimately, students should be able to understand the basics of infectious disease epidemiology and disease control within a wide cultural and historical context. The course will encompass various topics in microbiology and infectious disease, using primarily popular non-fiction books on these subjects as sources. Prerequisites: None
Schedule Type: Lecture, Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30000 PUBLIC HEALTH PROFESSIONAL PRACTICE II 1 Credit Hour
Professional development course designed to further prepare future public health leaders to the diverse field of public health. The career portfolio will be further developed. Career goals will be re-evaluated and the strategies for goal attainment reassessed. The understanding of public health as a profession will be further developed. Graduate or professional education as an option will be discussed in greater detail. Prerequisite: PH 20000; and junior standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PH 30002 INTRODUCTORY BIOSTATISTICS 3 Credit Hours
An introduction to statistical methodology in the field of public health. Students learn the statistical skills to read scientific articles, understand the statistical methods used and interpret the results on their own. Prerequisite: any Kent Core Mathematics and Critical Reasoning course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30004 PUBLIC HEALTH RESEARCH 3 Credit Hours
Approaches involved in defining public health problems and steps involved in conducting research about these problems. Students are introduced to how to evaluate published public health research. Prerequisite: PH 30002; and ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30005 SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH 3 Credit Hours
An overview of the contributions of the social and behavioral sciences to human health behavior, including application of studies in the area of health promotion, health protection and disease prevention in public health. Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30006 INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY 3 Credit Hours
Introduction: the environment at risk; environmental epidemiology, environmental toxicology, environmental policy and regulation, watershed management, safe drinking water, wastewater management, vector-born and zoonotic disease, air quality, solid and hazardous waste, food protection, radiation safety and injury prevention, occupational health and safety, total worker health, the built environment. Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30007 PREVENTION AND CONTROL OF DISEASES 3 Credit Hours
Provides an overview of concepts involved in biological mechanisms of disease at cell, individual and community levels, provides insight into strategies used in preventing and controlling diseases at the population and/or community level within this framework. Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30009 ENVIRONMENTAL HEALTH AND SAFETY REGULATIONS AND POLICY 3 Credit Hours
Develops a framework for understanding the regulatory structure of environmental and occupational health and safety regulations and policy in the U.S. Federal, state, and local levels of government are reviewed as well as major agencies and regulations. Prerequisite: PH 30006.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30012 COMMUNICABLE DISEASES 3 Credit Hours
A survey of communicable diseases of global public health significance, including the epidemiology and forensics associated with disease transmission, vaccination strategies and practices, and human responses to infectious disease. Students are introduced to infectious disease pathogens and the practices and procedures for their surveillance, handling and control. Prerequisite: PH 20001 and 30007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
PH 30014  STRATEGIES FOR PREVENTION IN PUBLIC HEALTH  3 Credit Hours
Provides a review of population strategies for health promotion and disease prevention from a social-ecological perspective, highlighting the importance of evidence-based, equitable, and ethical approaches. Prerequisite: PH 30007
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30015  UNITED STATES HEALTH CARE SYSTEM  3 Credit Hours
Provides an overview of the U.S. healthcare delivery system, including operations, stakeholders and the role of government with a particular emphasis on public health's role in health care. Students gain an understanding of inpatient and outpatient services, the various roles of healthcare professionals, private and public financing and the impact of managed care. The primary focus is the public health system. Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30016  UNITED STATES HEALTH CARE SYSTEM  3 Credit Hours
Provides an overview of the U.S. healthcare delivery system, including operations, stakeholders and the role of government with a particular emphasis on public health's role in health care. Students gain an understanding of inpatient and outpatient services, the various roles of healthcare professionals, private and public financing and the impact of managed care. The primary focus is the public health system. Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30020  FUNDAMENTALS OF HEALTH PRIVACY  1 Credit Hour
This course will provide an overview of compliance in healthcare privacy and security within the context of the Health Insurance Portability and Accountability Act (HIPAA). Current topics such as electronic health records and the challenges posed by social media will be explored. Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PH 30025  FUNDAMENTALS OF HEALTHCARE COMPLIANCE  1 Credit Hour
This course will provide an overview of fraud, waste, and abuse compliance in the healthcare industry. The practical and legal basis for compliance programs will be explored as well as their creation, implementation, and maintenance. Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PH 30033  PUBLIC HEALTH POLICY AND DECISION-MAKING  3 Credit Hours
An introductory survey of the formulation to implementation of public health policies for various public health issues, and the use of practical administrative tools such as strategic planning, use of economic evaluation tools and decision analysis. Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 30040  PUBLIC HEALTH LABORATORY SAFETY, SECURITY AND EMERGENCY PREPAREDNESS  3 Credit Hours
Safe operations within the public health laboratory require specific knowledge and skills sets. Upon completion of this course, the student will (1) understand the public health laboratory infrastructure; (2) work safely and responsibly with equipment and reagents to investigate laboratory-based public health problems; (3) define the laws, policies and guidance documents related to public health laboratory activities; and (4) respond to simulated laboratory safety and security emergencies. Prerequisite: PH 30006 and 30012.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

PH 30041  SOLID AND HAZARDOUS WASTE MANAGEMENT  3 Credit Hours
Solid waste and hazardous materials programs and practices are explored. Solid waste and hazardous waste programs and their environmental impact are examined. Solid waste and hazardous waste programs and their environmental impact are examined. Prerequisite: PH 30006.
Schedule Type: Field Experience, Lecture
Contact Hours: 2.67 lecture, .33 other
Grade Mode: Standard Letter

PH 30042  AIR QUALITY AND POLLUTION CONTROL  3 Credit Hours
Basic survey of air pollution and its control. The respiratory system and the body's response to air pollutants of different types is reviewed and related illnesses such as asthma are studied. The Clean Air Act, NESHAPS and related regulations are surveyed. Ambient air quality standards, the effect of climate and other air pollution concepts are reviewed. Measurement and control methods for both particulate and gaseous contaminants are surveyed. Prerequisite: PH 30006.
Schedule Type: Field Experience, Lecture
Contact Hours: 2.67 lecture, .33 other
Grade Mode: Standard Letter

PH 30043  FOOD PROTECTION  3 Credit Hours
Topics in foodborne disease prevention and food sanitation relative to quality control, food service and processing systems are introduced. Foodborne disease agents, microbiology, epidemiology and outbreak investigation techniques are explored. The regulatory process and agencies at the wholesale, retail and food service levels are introduced. Ohio food regulations are covered, including the Ohio Uniform Food Code. Basic preparation of students to conduct food serve inspections and foodborne disease investigations as part of agency regulatory programs. The opportunity to earn the National Restaurant Association, ServSafe Manager Certification is also provided. Prerequisite: PH 30006.
Schedule Type: Field Experience, Lecture
Contact Hours: 2.67 lecture, .33 other
Grade Mode: Standard Letter
PH 30105  WATER AND WASTEWATER MANAGEMENT  3 Credit Hours
Explores the issues surrounding water pollution and human health, and the environmental treatment systems developed to provide safe water and sewage disposal. Private water and sewage systems and public water and sewage systems are studied. Federal and State regulations, including the Safe Drinking Water Act and Clean Water Act are reviewed. Field experiences are included.
Prerequisite: 30006.
Schedule Type: Field Experience, Lecture
Contact Hours: 2.67 lecture, .33 other
Grade Mode: Standard Letter

PH 30106  ENVIRONMENTAL TOXICOLOGY  3 Credit Hours
Basic toxicological principles applied to studies of environmental health are surveyed. Basic concepts of toxicological testing, dose response, animal and other models, dose curves, LD50's, risk assessment, threshold theories, classifications of harmful effects, environmental pathways, metabolism and elimination are reviewed. Biological effects and the effect of select toxins on body systems are reviewed. Major groups of toxins and their effects are reviewed. Toxic behavior in air, water, wastewater, soil and environmental media are studied.
Prerequisite: PH 30006.
Schedule Type: Laboratory, Lecture
Contact Hours: 2.8 lecture, .2 lab
Grade Mode: Standard Letter

PH 30110  HAZARDOUS MATERIALS MANAGEMENT  3 Credit Hours
Covers the use of hazardous materials. Emphasis is on the safe management of hazardous materials in the workplace and community, their procurement, storage, regulation, pollution problems, use, release, clean up, disposal, and their control, to prevent workplace and community health and safety problems.
Prerequisite: PH 30006.
Schedule Type: Field Experience, Lecture
Contact Hours: 2.67 lecture, .33 lab
Grade Mode: Standard Letter

PH 30195  SPECIAL TOPICS IN PUBLIC HEALTH  1-3 Credit Hours
(Repeatable for credit) Subject varies depending on the emerging issue.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

PH 31005  SOCIAL DETERMINANTS OF HEALTH AND HEALTH BEHAVIOR  3 Credit Hours
Provides students with an overview of the social determinants of health behaviors and health outcomes. Students examine the relationships among the root causes of health disparities (education, income, inequality, race-ethnicity, social status-class, and gender) and more proximal causes of these disparities (e.g., access to and quality of medical care, work conditions, lifestyles, living conditions, social capital). These relationships are examined within ecological and multi-level theoretical frameworks.
Prerequisite: PH 30005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 32005  EMERGING ISSUES IN COMMUNITY HEALTH  3 Credit Hours
Provides students with exposure to touchstone issues in public health programming that have social and behavioral science implications. Topics reflect emergent priority areas and are expected to vary from semester to semester. Examples of current, emerging issues that may be covered include the Healthy People 2020 initiative, leading health indicators, role of CDC, state and local health departments and NGOs in promoting health behaviors, program recruitment, retention, evaluation and generalization challenges, ethical issues including informed consent and voluntary change, funding challenges for prevention programs, grant writing exposure, role of politics in public health programming, evidenced-based practices and practice-based evidence.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 34001  PUBLIC HEALTH INTERVENTIONS I  3 Credit Hours
Provides an overview of the planning and development of public health interventions including environmental, social, and behavioral public health issues from a social-ecological perspective, with attention to evidence-based, theoretical, and ethical approaches.
Prerequisite: PH 30005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 34002  PUBLIC HEALTH INTERVENTIONS II  3 Credit Hours
Provides an overview of public health intervention implementation, evaluation, and sustainability, with examples of public health interventions in practice and exploration into the future of public health interventions.
Prerequisite: PH 34001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 35001  COMMUNITY-BASED PUBLIC HEALTH PRACTICE  3 Credit Hours
Course focuses on the fundamentals of applying community engagement, organization, and development principles to create successful community public health interventions. Addresses work in at-risk and diverse communities using methods optimal for public health practice, including public health ethics, faith-based initiatives in community health, community health assessment and measurement methods, coalition building, and frameworks for developing health policy. Will also review the basic principles of health-related non-profit organization management and support.
Prerequisite: PH 30005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
PH 35005 ADVOCACY AND ACTIVISM IN PUBLIC HEALTH  3 Credit Hours
Public health advocacy and activism are areas of increasing importance for those in public health at both national and international levels because they offer more direct approaches to achieve lasting social and political change. This course provides a foundation to the theory, evidence-base and strategies that can be harnessed to bring about change to improve the lives and health of populations, and explains how activism has an essential role in public health policy and practice.
Prerequisite: Junior or Senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 40000 PUBLIC HEALTH PROFESSIONAL PRACTICE III  1 Credit Hour
Professional development course designed to launch graduates into the workplace or graduate school. The career portfolio, resume, and cover letters will be finalized. Interviewing and application skills will be developed. Working with a College of Public Health career counselor students will develop job search strategies and begin the application process. Students continuing their education in a graduate program will work on application materials.
Prerequisite: PH 30000; and senior standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

PH 40013 CLINICAL EPIDEMIOLOGY BASICS  3 Credit Hours
(Slashed with EPI 50013) The purpose of this course is to develop an understanding of clinical research, Good Clinical Practices, research environments, and methods used in clinical research. The student will gain an understanding of the use of clinical investigation from the product development stage to the application of investigations in contract research organization. Ethical implications and regulatory issues will be examined.
Prerequisite: PH 20001 and PH 30002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 40014 CLINICAL TRIALS MANAGEMENT  3 Credit Hours
(Slashed with EPI 50014) This course will further examination of the Good Clinical Practices guidelines. Students will learn how to conduct and manage clinical trials, understand clinical trials data, develop instruments and protocols, recognize quality control and data issues, know approaches to recruitment, retention, and participant assessment, identify adverse events and measurement of response variables, and acquire skill in study close-out procedures. Prerequisite: PH 40013.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 40015 SCIENTIFIC WRITING FOR CLINICAL RESEARCH  3 Credit Hours
(Slashed with EPI 50015) Clinical researchers must be able to demonstrate skill in scientific writing to communicate findings to the science community and the general population. This course will allow students to develop proficiency in scientific reading, conducting presentations, and writing. It will include examination of the science literature in clinical trials research.
Prerequisite: ENG 21011 or HONR 10297.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 40017 PHARMACOEPIDEMIOLOGY  3 Credit Hours
(Slashed with EPI 50017) This course is an introduction to the field of pharmacoepidemiology. Pharmacoepidemiology uses epidemiology methods to understand medication use and distribution at the population level. The class will examine risk-benefit and epidemiology approaches to examining medication use and therapeutic drugs. Drug and device manufacturing to market will be explored.
Prerequisite: PH 40013 and PH 40014.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 40018 REGULATORY AFFAIRS IN CLINICAL RESEARCH  3 Credit Hours
(Slashed with EPI 50018) Students will develop an understanding of the researcher and organization responsibility in research and development of clinical trials products. Students will understand regulations from the government and industry, privacy concerns, liability, and ethical issues related to clinical trials research. Examples from the field will be explored in detail.
Prerequisite: PH 40013 and PH 40014.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 40020 DISASTER PREPAREDNESS  3 Credit Hours
College-level version of the FEMA “Are You Ready?” training designed to prepare average citizens to respond to emergency situations. Students learn how to appropriately prepare for and respond to natural and contrived emergencies, such as floods, tornados, fires, terrorism, etc. Students prepare an emergency response kit for home use, using materials from home or store, and learn how to shelter-in-place.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 40040 FORENSIC EPIDEMIOLOGY  3 Credit Hours
Introduction to the principles and practices of investigative epidemiology. Inherent to the course is the understanding of how public health law impacts data collection and representation. Students learn the roles and responsibilities of the criminal justice, public health, and first responder communities as they relate to the investigation of public health crimes. Additionally, students use real case studies to apply knowledge in the investigation of mock public health crimes.
Prerequisite: special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
PH 40050 PUBLIC HEALTH AND FIRST RESPONDER LINKAGES 3 Credit Hours
Capstone experience meant to unite students of public health with their professional partners. Students interact in the classroom and at the partners’ place of business to link theory and practice, gain real-world knowledge and cement partnerships.
Prerequisite: PH 40040 and special approval.
Schedule Type: Field Experience, Lecture
Contact Hours: 1 lecture, 2 other
Grade Mode: Standard Letter

PH 40060 PUBLIC HEALTH LABORATORY METHODS 3 Credit Hours
This course introduces the student to the fundamental theory and hands on use to track specimen collection and laboratory analysis. Environmental specimens will be examined for their public health importance using classical and modern techniques. The student will spend time learning classical laboratory methods and their modern use in the laboratory environment. Examples include culture and microscopic identification of microorganisms, identification of disease vectors, detection of newborn disease and detection of terrorism agents. Prerequisites: PH 30006 or CHEM 10062 or CHEM 10971 or BSCI 30140 or instructor approval
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture
Grade Mode: Standard Letter

PH 40092 INTERNATIONAL HEALTH PRACTICUM (ELR) 3-6 Credit Hours
(Repeatable for credit) A supervised internship in global/international health.
Prerequisite: PH 10002; and junior or senior standing.
Schedule Type: Practicum or Internship
Contact Hours: 10-20 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

PH 40100 VECTOR-BORNE AND ZOONOTIC DISEASES 3 Credit Hours
Presents a broad overview of major considerations related to human health and the vector-borne diseases transmitted by rodents and arthropods (insects and arachnids). Control measures, including rodent control, local mosquito control programs, and integrated pest management (IPM) concepts with safe pesticide use are reviewed. Application of FIFRA regulations are presented. An overview of issues associated with zoonotic diseases transmitted by animals, such as rabies, and their control are also included. Vector and reservoir relationships are explored.
Prerequisite: PH 30006.
Schedule Type: Field Experience, Lecture
Contact Hours: 2.67 lecture, .33 other
Grade Mode: Standard Letter

PH 40101 OCCUPATIONAL HEALTH AND SAFETY 3 Credit Hours
Introduction to workplace safety and industrial hygiene. The OSHA regulations and procedures are reviewed and workplace safety and health principles studied. Students learn how to anticipate, recognize, evaluate and control workplace hazards. Safety issues are surveyed; such as confined space, electrical LOTO, trenching, fall protection, walking and working surfaces. Industrial hygiene issues are surveyed; such as air contaminants, hazard communication, respiratory protection, ergonomics, noise control and bloodborne pathogens. Control measures for workplace hazards are discussed.
Prerequisite: PH 30006.
Schedule Type: Field Experience, Lecture
Contact Hours: 2.67 lecture, .33 other
Grade Mode: Standard Letter

PH 40109 LABORATORY SAFETY AND HYGIENE 3 Credit Hours
(Crosslisted with EHS 50109) Basic introduction to laboratory safety, chemical hygiene, and biosafety. Includes the research compliance programs of institution (IBC, IACUC, IRB, RSC) and the OSHA Chemical Hygiene Standard requirements and program responsibilities. General lab safety concepts are reviewed, along with chemical handling and storage, fumehoods and ventilation, hazardous waste disposal, radiation safety, and lab design. Basic principles of biosafety are covered, BSL 1-4 levels, biosafety cabinets, select agents, bloodborne pathogens, NIH Guidelines, biosecurity and animal use.
Prerequisite: PH 30006.
Schedule Type: Field Experience, Lecture
Contact Hours: 2.67 lecture, .33 other
Grade Mode: Standard Letter

PH 40112 INSTITUTIONAL AND RECREATIONAL ENVIRONMENTAL, OCCUPATIONAL HEALTH AND SAFETY 3 Credit Hours
Introduces the environmental and occupational health and safety issues unique to institutional settings and licensed facilities; such as, hospitals, nursing homes, K-12 schools, universities, R&D, correctional facilities, and childcare facilities; and in various recreational environments, such as swimming pools, spas, bathing beaches, marinas, campgrounds, playgrounds and natural areas.
Prerequisite: PH 30006.
Schedule Type: Field Experience, Lecture
Contact Hours: 2.67 lecture, .33 other
Grade Mode: Standard Letter

PH 40191 SEMINAR IN PUBLIC HEALTH 1-3 Credit Hours
(Repeatable for credit) Seminar on current and important topics in public health. Subject matter varies depending on topic.
Prerequisite: none.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

PH 40195 SPECIAL TOPICS IN PUBLIC HEALTH 1-3 Credit Hours
(Repeatable for credit) Subject varies depending on the emerging issue.
Prerequisite: junior or senior standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter
PH 40196  INDIVIDUAL INVESTIGATION IN PUBLIC HEALTH  1-3 Credit Hours
(Repeatable for maximum 6 credits) Individual undergraduate investigation or research on specific public health issues.
Prerequisite: junior or senior standing and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

PH 40200  THE BUILT ENVIRONMENT  3 Credit Hours
Provides a basic understanding of the relationships between poor housing and environmental health and safety problems. It explores the physiological and psychological aspects of shelter. Students gain a basic understanding of housing codes, fire codes, zoning, and related regulatory issues. Students explore housing related health problems; such as, indoor air quality, mold, asbestos, lead paint, and radon. Manufactured housing parks and agricultural labor camp regulations are also reviewed. The role of EH in community planning is explored. Health issues with urban sprawl and community design problems, utility problems such as urban run-off and pest problems, and other issues are reviewed. Elements of healthy community, community planning and environmental protection are introduced, such as new urbanism, walkable communities programs, environmental building design, green communities, urban gardening and LEED’s.
Prerequisite: PH 30006.
Schedule Type: Field Experience, Lecture
Contact Hours: 2.67 lecture, .33 other
Grade Mode: Standard Letter

PH 41000  ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT  3 Credit Hours
Entails leadership and management principles in environmental and occupational health and safety (EOHS), and helps students develop skills needed to become an effective supervisor. Issues such as regulatory structure, program and community planning, policy development, budgeting, staffing and staff development, strategic planning, training, professionalism and assessment are reviewed. Board development, dealing with difficult people and situations, legal, social, political, and economic effects on EOHS programs are dealt with. Related issues such as ethics, human resources, workers comp, court appearances, media relations and communications are reviewed.
Prerequisite: PH 30006 and 30102 and 30105 and 30106; and senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 41092  FIELD EXPERIENCE IN MEETING THE BASIC HEALTH AND HUMAN NEEDS (ELR)  3 Credit Hours
(Repeatable for credit)Provides practical skills in simple, affordable appropriate technologies that can offer solutions for meeting basic health and human needs in the developing world at the household and community levels. Technologies are organized into five modules: 1) food, agriculture, and nutrition; 2) water and sanitation; 3) alternative household energy; 4) primary health care; and 5) community development needs and resource assessment. All five modules cover appropriate technologies that while meeting the basic needs have significant impact on health of the individuals and communities. Principles of participatory community development and sensitivity to cross-cultural, gender, and ecological issues are emphasized throughout the training.
Prerequisite: special approval.
Schedule Type: Field Experience
Contact Hours: 8 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

PH 42092  ENVIRONMENTAL, OCCUPATIONAL, HEALTH AND SAFETY INTERNSHIP (ELR)  4-6 Credit Hours
The purpose of the environmental and occupational health and safety internship is to supplement the student in-class learning experiences with practical hand-on skills and work practice experiences that helps them develop the environmental competencies required for success in the field.
Prerequisite: junior or senior standing; and special approval.
Schedule Type: Practicum or Internship
Contact Hours: 13.33-20 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

PH 43014  PUBLIC HEALTH AND MASS INCARCERATION  3 Credit Hours
This course will examine incarceration using a public health lens. Students will examine the epidemiology of mass incarceration in the U.S., infectious and chronic diseases of those incarcerated, incarceration as a self-sustaining epidemic with generations of imprisonment, access to health care of those behind bars and on release, and the contagion of punishment including collateral damage to children, families and neighborhoods. The course will conclude with a public health model for ending mass incarceration.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 44000  HEALTH DISPARITIES (DVVD) (WIC)  3 Credit Hours
Understanding the factors involved in health disparities at the national and global level, and the impact of health disparities on public health.
Prerequisite: ENG 21011 or HONR 10297; and 21 credit hours of public health (PH) courses; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Diversity Domestic, Writing Intensive Course
PH 44002  GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND  3 Credit Hours
Participants explore a number of health concerns, policies and challenges with global importance and implications. Students investigate current global health policies and themes, and become familiar with the major players in global health including governmental and nongovernmental organizations and multinational agencies. Presentations are given by experts currently working in various regions of the world to solve such pressing global problems as HIV/AIDS, post-war trauma, tuberculosis, refugee health, non-communicable disease prevention and environmental contamination.
Prerequisite: PH 10001 and 10002; and junior or senior standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 44003  ENVIRONMENTAL HEALTH ISSUES IN LOW- AND MIDDLE-INCOME COUNTRIES  3 Credit Hours
Covers the important environmental health issues of concerns in low- and middle-income countries and appropriate intervention strategies. Topics include clean drinking water and sanitation, indoor air pollution, outdoor air pollution, environmental management, sustainability and health.
Prerequisite: public health (PH) or anthropology (ANTH) major; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 44004  GLOBAL HEALTH IMMERSION: LATIN AMERICA  3 Credit Hours
The principal objective of this summer intersession course is to immerse students into the history, culture and public health systems of Latin American countries Colombia Ecuador. Students will have the opportunity to visit major cities, i.e., Cali, Colombia, and Quito, Ecuador, rural areas, and well-known tourist destinations (Cartagena, Colombia, Otavalo, Ecuador). Students will gain an understanding of current scientific research on tropical diseases of local public health relevance, such as malaria. The course will focus on the basic biology of disease, mechanisms of transmission (epidemiology), and efforts to develop vaccines against malaria. The course is designed primarily for sophomores, juniors and seniors who are public health, nursing, or biological science majors. Master's level students will also be accepted. Knowledge of basic Spanish language is useful but not necessary.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 44005  LEGAL ASPECTS OF HEALTH SERVICES MANAGEMENT  3 Credit Hours
Provides an overview of legal and regulatory essentials in health services management. Provides a historical perspective on legal aspects of health care as well as an introduction to law, tort law, criminal aspects, contracts, civil procedure and trial practice as related to health care. Students examine how liability impacts corporate structures, health departments and health care professionals and examine issues related to patient consent, legal reporting requirements, labor relations and patient rights.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 44006  PUBLIC HEALTH PLANNING AND FINANCE  3 Credit Hours
Introduces students to business planning of health services. Students obtain skills in public health financial decision-making, including general principles of public health accounting, budgeting and financial planning.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 44020  PUBLIC HEALTH ETHICS IN PRACTICE, POLICY AND RESEARCH  3 Credit Hours
Provides an introduction to public health ethics, including the key foundations, concepts and frameworks for evaluating ethical issues in the public health setting.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 44025  PRINCIPLES OF PUBLIC HEALTH LEADERSHIP  3 Credit Hours
Designed to introduce students to skill-sets and leadership practices necessary for successful public health leadership, with an emphasis on leading positive and sustainable change in real world situations. It also familiarizes students with key aspects of partnership building and advocacy for the purposes of improving health. Particular skills include coalition/partnership development, health advocacy, team building, mentoring and leadership.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

PH 44092  INTERNSHIP IN PUBLIC HEALTH (ELR)  3-6 Credit Hours
(Repeatable for credit) Capstone internship experience in a public health setting under the supervision of a site preceptor and university supervisor. Students gain experience in public health work.
Prerequisite: senior standing and special approval.
Schedule Type: Practicum or Internship
Contact Hours: 3-6 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement
PH 45092  SERVICE LEARNING PRACTICUM IN COMMUNITY-BASED PUBLIC HEALTH (ELR) 3 Credit Hours
This course is designed to provide an opportunity for students to engage in a variety of public health settings under the supervision of faculty. The practicum experience is focused on developing skills needed to implement change to improve population health, providing a setting in which students may integrate and apply the skills and knowledge acquired through their coursework. Students will be exposed to some of the benefits and challenges encountered by public health professionals on a routine basis.
Prerequisite: Junior or Senior Standing.
Corequisite: PH 35001.
Schedule Type: Lecture, Practicum or Internship
Contact Hours: 1 lecture, 6 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PH 49000  CAPSTONE EXPERIENCE IN PUBLIC HEALTH (ELR) 3 Credit Hours
Case studies of various strategies used in addressing various public health issues are discussed within an evaluative framework.
Prerequisite: 21 credit hours of public health (PH) courses; and junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

PH 60172  PRACTICUM SEMINAR IN PUBLIC HEALTH 1 Credit Hour
(Repeatable 6 times for credit) Seminar component of the Practicum Experience; course must be taken at the same time as the Practicum Experience; students prepare a final portfolio and seminar presentation integrating theory and practice.
Prerequisite: graduate standing.
Corequisite: PH 60192.
Schedule Type: Lecture
Contact Hours: 1 other
Grade Mode: Satisfactory/ Unsatisfactory-IP

PH 60192  PRACTICUM EXPERIENCE 5 Credit Hours
(Repeatable for credit)Observational and participation in public health activities of a public health agency, hospital or other approved organization. The student completes the field experience with joint supervision from the university and approved organization or agency.
Prerequisite: graduate standing.
Corequisite: PH 60172.
Schedule Type: Practicum or Internship
Contact Hours: 20 other
Grade Mode: Satisfactory/ Unsatisfactory-IP

PH 80199  DISSERTATION I 15 Credit Hours
(Repeatable for credit) Registration for two semesters required, first semester dissertation work begin and continues until completion of 30 hours.
Prerequisite: doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/ Unsatisfactory-IP

PH 80299  DISSERTATION II 15 Credit Hours
(Repeatable for credit)Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until degree requirements are met.
Prerequisite: doctoral standing.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/ Unsatisfactory-IP

Social and Behavioral Sciences (SBS)

SBS 50002  QUANTITATIVE METHODS IN SOCIAL AND BEHAVIORAL SCIENCES 3 Credit Hours
Introduces basic quantitative methods used in social and behavioral scientific research. First we focus on the measurement of socio-behavioral phenomena and the relationship between measurement and statistics. Next, we examine the interrelated roles of scientific theory and the design of socio-behavioral research studies. Last, we focus on building appropriate multiple linear regression and/or analysis of variance statistical models to provide valid analysis of data collected in socio-behavioral research.
Prerequisite: BST 52019; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 50020  SOCIAL AND BEHAVIORAL SCIENCE THEORIES 3 Credit Hours
Examines fundamental social and behavioral science theoretical frameworks that explain health behaviors with an emphasis on application through universal prevention approaches to inform both research and program evaluation designs.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 50030  SEMINAR IN SOCIAL AND BEHAVIOR SCIENCES 3 Credit Hours
Explores case studies in the social and behavioral sciences on topics that address the leading health indicators including substance use (alcohol, tobacco and other drugs), obesity (physical activity and nutrition), HIV and STIs, mental health, injury, immunization and access to health care, and social determinants of health.
Prerequisite: graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

SBS 50196  INDIVIDUAL INVESTIGATION IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours
(Repeatable for credit) Individual graduate investigation or research in areas related to social and behavioral sciences.
Prerequisite: graduate standing and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP
SBS 54634 SOCIAL DETERMINANTS OF HEALTH BEHAVIORS 3 Credit Hours
Overviews the social determinants of health and the dynamic interplay between individual behaviors and community structures (systems orientation) including public policy, social and built environments, commercial messages, access to services, cultural norms, psychosocial hazards, and poverty both as causal effects that either provide opportunity or constraints to health. Also examines systems approaches to preventing public health threats from issues including substance use (alcohol, tobacco and other drugs), physical inactivity, poor dietary practices, unsafe sexual behaviors, violence and injury, and mental health.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 73018 THEORIES OF PREVENTION SCIENCE I 3 Credit Hours
Provides a background and theoretical review of prevention science as a multi-disciplinary field focusing on systematic inquiry on health behaviors including substance use (alcohol, tobacco and other drugs), physical activity, dietary practices, mental health, violence and injury, and sexual behaviors.
Prerequisite: doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 60195 SPECIAL TOPICS IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Special topics to sample new offerings on topics in social and behavioral sciences.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SBS 60020 PROGRAM EVALUATION II: APPLICATION IN THE REAL WORLD 3 Credit Hours
This course provides students with a more in-depth examination of program evaluation for Public Health professionals and the opportunity to apply their evaluation knowledge and skills to an existing health intervention. The content will delve deeply into formative and summative evaluation—including theoretical underpinnings, professional standards, research design and data collection and analysis. Students will be required to apply this knowledge to a selected program and produce an evaluation proposal acceptable for submission to a funding agency.
Prerequisite: HPM 53011; Graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 73010 QUALITATIVE METHODS FOR PUBLIC HEALTH RESEARCH 3 Credit Hours
In this course, students will be guided through exploration of the uses and value of qualitative approaches to research with humans through a combination of resource review and applied practice. Students will be provided with information about various methodologies that comprise qualitative inquiry, and will engage in practice efforts to gather, process, and analyze data, and to assess the quality of research reports.
Prerequisite: Doctoral standing or permission of instructor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 73011 QUALITATIVE DATA ANALYSIS 3 Credit Hours
Students will be introduced to the process and goals of qualitative data analysis relevant to research design and study purpose, and will be provided opportunities to conduct coding and other types of analysis of qualitative data using both computer assisted and manual processes. Qualitative approaches potentially considered in this course include grounded theory, phenomenology, descriptive or generic approaches, content analysis, mixed methods, and others depending on needs and interests of students in the class. Students will additionally learn about and practice quality control measures that include creation of an audit trail, “member checking” composition of analytic memos, and other forms of researcher initiated documentation.
Prerequisite: A grade of C or better in SBS 73010 Qualitative Methods for Public Health Research or in a comparable introductory qualitative methods course.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 60192 PRACTICUM EXPERIENCE IN SOCIAL AND BEHAVIORAL SCIENCES 1-6 Credit Hours
Observational and participation in public health activities of a public health agency, hospital or other approved organization. The student completes the field experience with joint supervision from the university and approved organization or agency.
Prerequisite: graduate standing and special approval.
Schedule Type: Practicum or Internship
Contact Hours: 3-18 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SBS 60191 VARIABLE CONTENT SEMINAR IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Seminar on current and important topics in social and behavioral sciences. Subject matter varies depending on the topic.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

SBS 60190 THEORIES OF PREVENTION SCIENCE II 3 Credit Hours
Provides a background and theoretical review of prevention science as a multi-disciplinary field focusing on systematic inquiry on health behaviors including substance use (alcohol, tobacco and other drugs), physical activity, dietary practices, mental health, violence and injury, and sexual behaviors.
Prerequisite: doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 53008 GRANT WRITING IN SOCIAL AND BEHAVIORAL SCIENCES 3 Credit Hours
Students learn the basics of grant writing for federal and non-federal funding agencies with a particular emphasis on the components of most proposals for funding. This includes rationale for seeking funds, collaborations with community organizations, and working with consultants and subcontractors. Participants also learn about the basic sections of grant writing such as specific aims and hypotheses, developing a literature review, background and significance, research design and methodology, developing a budget and conducting research with human subjects. Participants have an opportunity to write sample grant proposals, learn about the review and scoring process and post-award grant management.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
SBS 73019 THEORY PREVENTION SCIENCE II  3 Credit Hours
This course examines the methods used by prevention science researchers to determine the effectiveness of public health programs. Focus is on advanced formative, process, impact and outcome evaluation methods. Qualitative and quantitative analysis techniques used for assessing program process and effects are discussed in the context of research evaluation.
Prerequisite: doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 73020 ADVANCED METHODS IN PREVENTION SCIENCE  3 Credit Hours
Focuses primarily on advanced quantitative methods in the application of prevention science.
Prerequisite: doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 80020 PROGRAM EVALUATION II: APPLICATION IN THE REAL WORLD  3 Credit Hours
This course provides students with a more in-depth examination of program evaluation for Public Health professionals and the opportunity to apply their evaluation knowledge and skills to an existing health intervention. The content will delve deeply into formative and summative evaluation—including theoretical underpinnings, professional standards, measurement, research design and data collection and analysis. Students will be required to apply this knowledge to a selected program and produce an evaluation proposal acceptable for submission to a funding agency. Prerequisites: HPM 53011
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 80100 EMERGING ISSUES IN PREVENTION SCIENCE  3 Credit Hours
Survey of relevant challenges and issues facing prevention science researchers.
Prerequisite: doctoral standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

SBS 80196 INDIVIDUAL INVESTIGATION IN SOCIAL AND BEHAVIORAL SCIENCES  1-3 Credit Hours
Individual graduate investigation or research in areas related to social and behavioral sciences.
Prerequisite: Doctoral standing and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter-IP

SBS 80198 DIRECTED RESEARCH IN PREVENTION SCIENCE  1-15 Credit Hours
(Repeatable for credit) Directed research or individual investigation for doctoral students.
Prerequisite: doctoral standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-S/U-IP

SBS 80199 DISSERTATION I  15 Credit Hours
(Repeatable for credit) Registration for two semesters required, first semester dissertation work begins and continues until completion of Dissertation II and 30 hours of total dissertation work.
Prerequisite: doctoral standing and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP

SBS 80299 DISSERTATION II  15 Credit Hours
(Repeatable for credit) Second course of dissertation sequence completing requirement of with 30 total hours of dissertation work.
Prerequisite: SBS 80199 and special approval.
Schedule Type: Dissertation
Contact Hours: 15 other
Grade Mode: Satisfactory/Unsatisfactory-IP