Epidemiology Graduate Program

Lists of Electives

Please refer to the UW Course Guide for the most current information on course offerings, and to the links provided for available course descriptions.

**Specialization courses for MS and PhD in Epidemiology (9 credits for MS and 12 for PhD required)**

https://pophealth.wisc.edu/grad/courses.htm
http://www.ssc.wisc.edu/soc/courses/syllabi.php

**Environmental Epidemiology**
PHS 650 (sec 074) Special Topics in Environmental Health Epidemiology (2 cr)
PHS 789 Principles of Environmental Health (3 cr)
PHS 740 Health Impact Assessment of Global Environmental Change (3 cr)

**Infectious Diseases Epidemiology**
PHS 713 Epidemiology of HIV/AIDS (1 cr)
PHS 786 Social and Behavioral Sciences in Public Health (3 cr)
PHS 801 Epidemiology of Infectious Disease (3 cr)
PHS 904 Section 04, Global Health Epidemiology (2 cr)

**Chronic Diseases, Perinatal and Genetic Epidemiology**
BMI541 Clinical Trials (3cr)
PHS 621 Introduction to Nutritional Epidemiology (2-3 cr)
PHS 750 Cancer Epidemiology (2-3 cr)
PHS 791 Physical Activity Epidemiology (3 cr)
PHS 807 Reproductive and Perinatal Epidemiology (2 cr)
PHS 847 Cardiovascular Epidemiology (1 cr)
PHS 849 Genetic Epidemiology (3 cr)
PHS 888 Public Health Genomics (1 cr)
PHS 955 Seminar in Physical Activity Epidemiology (1 cr)
PHS 904 Section 03, Analytic Methods in Genetic Epidemiology (2 cr)

**Or combinations of these, with permission from the adviser**

**Courses that will satisfy the 4th Semester Biostats Requirement (for Epi):**

http://www.stat.wisc.edu/courses/course-listing
https://www.biostat.wisc.edu/department-courses
https://pophealth.wisc.edu/grad/courses.htm
http://www.ssc.wisc.edu/soc/courses/syllabi.php
BMI/PHS 652 Topics in Biostatistics for Epidemiology (1-3 cr)
STAT 349 Introduction to Time Series (3 cr)
STAT 351 Introductory Nonparametric Statistics (3 cr)
STAT 411 Introduction to Sample Survey Theory & Methods (3 cr)
STAT 456 Applied Multivariate Analysis (3 cr)
STAT 471 Statistical Computing (3 cr)
STAT 575 Statistical Methods for Spatial Data (3 cr)
STAT 641 Statistical Methods for Clinical Trials (3 cr)
STAT 642 Statistical Methods for Epidemiology (3 cr)
STAT 741 Survival Analysis Theory & Methods (3 cr)
STAT 761 Decision Trees for Multivariate Analysis (3 cr)
SOC 952 Causality: Mathematical and Statistical Applications in Sociology (3 cr)
SOC 952 Event History Analysis (3 cr)
SOC 952 Path Analysis and Structural Equation Models (3 cr)
SOC 952 Graphical Models for Causal Inference 3 cr
ED PSYCH 711 Topics Course (Current topics are Bayesian Methods, Missing Data, Longitudinal Data, Causal Inference) (3 cr)
ED PSYCH 773 Factor Analysis, Multidimensional Scaling and Cluster Analysis (3 cr)
ED PSYCH 861 Nonparametric Statistics (3 cr)
ED PSYCH 862 Multivariate Analysis (3 cr)
ED PSYCH 871 Item Response Theory (3 cr)
ED PSYCH 960 Structural Equation Modeling (3 cr)
ED PSYCH 964 Hierarchical Linear Modeling (3 cr)

Ethics Electives (At least 1 credit is required):

https://pophealth.wisc.edu/grad/courses.htm
https://histsci.wisc.edu/courses/courses.php

HST SCI 515 Public Health Ethics (3 cr)
HST SCI 545 Ethical and Regulatory Issues in Clinical Investigation (1 cr)
HST SCI 558 Ethical Problems in Biomedical Technology (3 cr)
HST SCI 559 Topics in Ethics and History of Medicine (3 cr)
HST SCI 565 Ethics of Modern Biotechnology (3 cr)
HST SCI 610 Regenerative Medicine Ethics and Society (1 cr)
HST SCI 728 Biomedical Ethics and Society (1-3 cr)
HST SCI 730 Ethical Issues in Medicine (1 cr)
HST SCI 734 Graduate Studies in Medical Ethics (1-3 cr)
NUR 802 Ethics and the Responsible Conduct of Research (1 cr)

Suggested elective courses additional to above lists: (Also refer to Population Health Elective lists.)

https://www.biostat.wisc.edu/department-courses
https://pophealth.wisc.edu/grad/courses.htm
BMI 544 Introduction to Clinical Trials II (3 cr)
PHS 780 Public Health: Principle and Practice (3 cr)
PHS 803 Monitoring Population Health
PHS 810 Conspiracies in Public Health (2 cr)
PHS 875 Assessment of Medical Technologies (2-3 cr)
HDFS 725 Theory and Issues in Human Development (3 cr)
HDFS 872 Bridging the Gap between Research and Action (3 cr)
NUR 713 Family Process, Health & Illness (3 cr)
NUR 817 Research in Communities, Populations, and Systems (3 cr)
SOC 663 Population and Society (3cr)
SOC 726 Population and Development (3 cr.)
SOC 751 Methods of Survey Research: Design & Measurement (3 cr)
SOC 752 Methods of Survey Research: Applications (3 cr)
SOC 901 Biodemography (3 cr.)
SOC 971 Mortality and Health (3 cr.) (No other versions will apply.)