

University of Iowa
Spring 2021 – online courses

Course Number	Course Title	Description
BIOS:4120:0EXW	Introduction to Biostatistics	Application of statistical techniques to biological data including descriptive statistics, probability and distributions, sampling distributions, nonparametric methods, hypothesis tests, confidence intervals, analysis of categorical data, and simple linear regression; designed for non-biostatistics majors and M.P.H. students.
BIOS:5120:0EXW	Regression & ANOVA in Health Sciences (This would need to be taken after BIOS:4120)	Continuation of BIOS:4120; correlation, simple and multiple linear regression, confounding, interactions, model selection, single and multiple factor ANOVA (analysis of variance) models, contrasts, multiple comparisons, nested and block designs, and an introduction to mixed models; designed for non-biostatistics majors. Offered spring semesters and summer sessions.
CBH:4105:0100	Introduction to Health Promotion & Disease Prevention	Basic concepts, strategies, and methods of health promotion and disease prevention; health promotion in the context of public health, theories and principles that underpin health promotion; overview of policy formation and health promotion planning, implementation, evaluation.
CBH:5310:0001	Qualitative Research for Public Health	Introduction to methods and theories of qualitative research that facilitate description and explanation of social phenomena related to health behavior, illness, prevention, and treatment in the public health domain. This course utilizes didactic, interactive and applied techniques to introduce students to qualitative research theories and methods. Students will gain qualitative research knowledge and skills, and will have the opportunity to apply what they have learned by conducting a small qualitative study. Students will collect data through focus groups or interviews, analyze the data, present results, and articulate public health implications of the results. The course is intended

		for MPH, MS, and PhD students interested in community and behavioral health.
CPH:3400:0AAA	Health, Work, and the Environment	Survey of environmental and occupational health hazards and the associated health risks of exposure; how public health protects society from these hazards; how public health policy can be influenced by science.
EPID:4400:0EXW	Epidemiology I: Principles	Epidemiological concepts and methods; design of descriptive and analytic studies, such as aggregate, case series, cross-sectional, case-control, cohort studies, clinical trials; application of epidemiology to public health practice; communication and dissemination of epidemiological findings.
EPID:5214:0001	Meta-Analysis of Epidemiologic Studies (Would need to have taken BIOS:5120 and EPID:4400 first)	Methods for quantitative pooling of analytic study associations (cohort and case-control) between exposure and a dichotomous outcome; literature searches, data abstraction, test of homogeneity, publication bias and consideration of adjusted risk ratios (effects of confounding). Offered spring semesters of odd years.
EPID:5550:0EXW	Diagnostic Microbiology for Epidemiology (has Microbiology pre-req requirements)	Introduction to microbiological culture, antigen detection, immunological and molecular amplification laboratory techniques for bacteria, viruses, parasites, fungi. Offered spring semesters.
EPID:5610:0001	Intermediate EPI Data Analysis SAS & R	Basic principles of data analysis and collaborative research; SAS fundamentals; data manipulation and interpretation techniques. Offered spring semesters.

Links to find out more

Biostatistics: <https://myui.uiowa.edu/my-ui/courses/dashboard.page?q.courseSubject=biostatistics&q.instructors=&q.sessionId=87&q.endTime=&q.keywords=&q.learningCenter=&q.genEd=&q.startTime=&q.sectionNumber=&q.courseNumber=&showResults=1>

Community & Behavioral Health: <https://myui.uiowa.edu/my-ui/courses/dashboard.page?q.endTime=&q.genEd=&q.startTime=&q.courseNumber=&q.courseSubject=cbh&q.instructors=&q.sessionId=87&q.keywords=&q.learningCenter=&q.sectionNumber=&showResults=1>

Epidemiology: <https://myui.uiowa.edu/my-ui/courses/dashboard.page?q.endTime=&q.genEd=&q.startTime=&q.courseNumber=&q.courseSubject=EPID&q.instructors=&q.sessionId=87&q.keywords=&q.learningCenter=&q.sectionNumber=&showResults=1>

Occupational and Environmental Health: <https://myui.uiowa.edu/my-ui/courses/dashboard.page?q.endTime=&q.genEd=&q.startTime=&q.courseNumber=&q.courseSubject=oeh&q.instructors=&q.sessionId=87&q.keywords=&q.learningCenter=&q.sectionNumber=&showResults=1>

College of Public Health (many undergrad courses restricted to majors): <https://myui.uiowa.edu/my-ui/courses/dashboard.page?q.endTime=&q.genEd=&q.startTime=&q.courseNumber=&q.courseSubject=cph&q.instructors=&q.sessionId=87&q.keywords=&q.learningCenter=&q.sectionNumber=&showResults=1>