ENV AND RADIOG HEALTH
SCI-CSU (ERHS)

ERHS 5010 - Biological Basis of Public Health (2 Credits)
Biological basis of underlying major public health problems, focusing
on risk factors, pathogenesis, and pathophysiology, plus a review of the
anatomy and physiology of selected major organ systems and associated
diseases, clinical terminology, the underlying biological mechanisms and
biological impact of disease in public health.
Grading Basis: Letter Grade
Typically Offered: Spring.
Additional Information: Colorado State University.

ERHS 5320 - Advanced Epidemiologic Methods (3 Credits)
In-depth exploration of advanced epidemiologic methods. Prereq: ERHS
Grading Basis: Letter Grade
Typically Offered: Spring.
Additional Information: Colorado State University.

ERHS 5350 - R Programming for Research (3 Credits)
In-depth instruction on data collection, data management, programming
and visualization using data examples relevant to academic research.
Grading Basis: Letter Grade
Typically Offered: Fall.
A-PUBH1 Graduate students and public health certificate students only.
Additional Information: Colorado State University.

ERHS 5600 - Health Impact Assessment (2 Credits)
Application of a Health Impact Assessment approach to systematically
judge the potential health effects of a policy or project and the
distribution of those effects within the population.
Grading Basis: Letter Grade
Typically Offered: Spring.
Additional Information: Colorado State University.

ERHS 5730 - Design and Conduct of Epidemiologic Research (2 Credits)
This course prepares students to design and implement an epidemiologic
study from the development of a research question and study design
to data analysis and dissemination. Prerequisites: Introductory
Epidemiology course or equivalent.
Grading Basis: Letter Grade
Typically Offered: Fall.
Additional Information: Colorado State University.

ERHS 5810 - Biological Basis of Public Health (2 Credits)
Biological basis of underlying major public health problems, focusing
on risk factors, pathogenesis, and pathophysiology, plus a review of the
anatomy and physiology of selected major organ systems and associated
diseases, clinical terminology, the underlying biological mechanisms and
biological impact of disease in public health.
Grading Basis: Letter Grade
Typically Offered: Spring.
Additional Information: Colorado State University.

ERHS 5950 - Independent Study - Epidemiology (1-5 Credits)
Specialized study in epidemiology under supervision of faculty.
Grading Basis: Letter Grade
Repeatable. Max Credits: 5.
A-PUBH1 Graduate students and public health certificate students only.
Additional Information: Colorado State University.
Typically Offered: Fall, Spring, Summer.

ERHS 6380 - Geospatial Analysis for Environmental Health (3 Credits)
Introduction to acquisition, organization and analysis of geospatial data
relevant to public health. Data sources covered include ground-based air
quality and weather sensors, remote sensing (satellite) products, climate
and weather model output and data on water quality, traffic and mobility,
and housing and socio-demographics.
Grading Basis: Letter Grade
Typically Offered: Fall, Spring, Summer.
Additional Information: Colorado State University.

ERHS 6580 - Environmental/Occupational Epidemiology (2 Credits)
Epidemiologic analyses of effects of exposure to environmental and
occupational health hazards. Prereq: ERHS 5320.
Grading Basis: Letter Grade
A-PUBH1 Graduate students and public health certificate students only.
Additional Information: Colorado State University.
Typically Offered: Spring.

ERHS 6930 - Research Seminar - Epidemiology (1 Credit)
Presentation of student research and discussion of publications from
Grading Basis: Letter Grade
Typically Offered: Fall.
A-PUBH1 Graduate students and public health certificate students only.
Additional Information: Colorado State University.
Typically Offered: Fall.

ERHS 7320 - Advanced Epidemiological Analysis (2 Credits)
Course will complement the student's training in epidemiological
methods and statistical regression methods, providing the opportunity to
implement their theoretical expertise through designing and conducting
advanced epidemiologic research analysis, implemented through a
statistical programming language. Prerequisite: Epidemiologic Methods,
Advanced Epidemiology, R Programming or SAS and Epidemiologic
Data Management, Design and Data Analysis or equivalent courses or
experience.
Grading Basis: Letter Grade
Typically Offered: Fall.
Additional Information: Colorado State University.

ERHS 7400 - Advanced Epidemiology Methods (3 Credits)
Understanding the theoretical basis of currently used epidemiologic
methods and also to help acquire an understanding of the process of
developing novel approaches. Topics include methods for analysis of
the causal effects of time-varying exposures, mediation, instrumental
variable analysis, natural experiments and other methods. Prerequisite:
Epidemiologic Methods, Advanced Epidemiology, Design and Data
Analysis for Researchers I and II or equivalent courses or experience.
Grading Basis: Letter Grade
Typically Offered: Fall.
Additional Information: Colorado State University.