



Graduate Certificate in Health Justice and Infectious Diseases

Students need to complete a minimum of 12 credits to earn the graduate certificate, including the 9 credits of required courses and 3 credits from the elective courses below.

Please contact certificate director Nicole Kelp-Sullivan (nicole.kelp@colostate.edu) with any questions.

Required Courses

MIP 551 Infectious Diseases and Social Equity (3 credits, Fall)

Explores the role of social and economic forces in determining increase infectious disease risks and worse outcomes through history. The course discusses how unjust relative distributions of rights, opportunities and resources within a given society determine risk of acquiring certain infections that produce premature death, disability, and injury.

MIP 552 Social Impacts of Biomedical Research (3 credits, Fall)

Focuses on the social impacts of biomedical research, including historical perspectives and inequities, changes that have promoted equity, and ongoing areas of concern. Topics include racism and colonization in biomedical research and social determinants of health.

**This course fulfills Responsible Conduct of Research requirements if taken in-person. **

MIP 553 Health Communication for Infectious Disease (3 credits, Spring)

Examines science and health communication theory, research and evaluation methods, and evidence-based practice approaches for communicating about infectious diseases. This course focuses on inclusive and community-engaged approaches for communicating about vaccines, antibiotics, microbiomes, and climate change; uncertainty and risk communication for emerging infectious diseases; addressing misinformation; and interpersonal, community, and public health communication strategies.

Elective Courses

ESS 516/NR 516 Climate Justice and Policy (2 credits, Fall odd years)

Overview on i) the unequal distribution of the benefits of natural resource use and the burdens of environmental degradation across spatiotemporal scales, and ii) the role of policy tools and approaches in creating, exacerbating, or addressing those inequalities.



**MICROBIOLOGY, IMMUNOLOGY,
AND PATHOLOGY**
COLORADO STATE UNIVERSITY

FSHN 515 Advanced Health Equity (3 credits, Fall)

Inequities in health and healthcare access, barriers to equity, and strategies for improving health equity at organizational, community, and systemic levels. *Students must register for both lecture and recitation.*

MIP 614 Medical Microbiology (3 credits, Spring)

In-depth examination of the pathogenic mechanisms of medically important bacteria, fungi, parasites and viruses.

NR 518 Climate Impacts and Risk Assessments (3 credits, Fall even years)

Develop skills and decision frameworks to understand and apply climate vulnerability assessments, adaptation planning, and risk management processes across social, ecological, and economic systems. Explore how key governmental and non-governmental entities utilize these tools, assess relative strengths and weaknesses of multiple approaches, and conduct assessment and planning activities.

PBHL 573 Exploring Social Epidemiology (3 credits, Spring)

Theories and epidemiological methods relevant to connections between social exposure and population health. Factors as socioeconomic status, discrimination, working conditions, historical and current policies, neighborhood characteristics, and other elements that influence population health through a social perspective.

PPA 530 Civic Engagement (3 credits, Spring)

Focus on public engagement directed at the tools, theories, and processes relevant to public policy and administration. Introduction to the role citizens play in democracy, decision making, public administration, and public policy. Trends of engagement are explored alongside strategies useful to manage, encourage, and facilitate public participation in public policy and administration.

PPA 543 Evidence-Based Decision Making (3 credits, Spring)

A survey of evidence-based decision making, including tools, constraints, and opportunities for public servants.

PPA 576 Social Equity in Public Service (3 credits)

Examines social equity as it applies to public organizations and public service. Investigating the historical, theoretical, and legal considerations of equity in public service. Exploring solutions to equity challenges in public administration.