Course Description
Low income communities and communities of color have challenged public health scientists to conduct research on environmental and occupational hazards that may impact their health. Such community-driven research requires environmental health scientists, epidemiologists and other researchers to modify approaches used in more traditional research conducted for stakeholders in government and industry.

This course introduces principles, concepts, and methods of community-driven environmental justice research, presents current environmental justice research and future research needs, offers practice opportunities for active involvement in problem-solving in environmental justice research, and provides students an opportunity to develop facility with analytic methods needed to conduct research into community environmental justice concerns.

Learning Objective(s):
Upon successfully completing this course, students will be able to:
1. Identify conceptual and methodological issues related to environmental justice research, including issues of race and class in environmental health and the history of environmental justice movements.
2. Identify key principles of community-based participatory research and explain and analyze how these have been integrated into environmental justice movements.
3. Synthesize and integrate information from community members about their environmental justice concerns.
4. Identify, describe, and choose environmental and occupational epidemiologic study designs and analyses that are appropriate for investigations into community environmental justice concerns.
5. Develop research questions or testable hypotheses that respond to community concerns about disproportionate impacts and environmental injustice.
6. Complete analyses and prepare reports that address community environmental justice and policy needs.

Prerequisites
- Completion of 550.600 Responsible Conduct of Research, 180.609 Principles of Environmental Health OR 180.601 Environmental Health.
- Additionally, it is highly recommended that students have completed or are enrolled in 340.751-340.753 Epidemiologic Methods 1-3 (preferred) OR 340.721-340.722 Epidemiologic Inference in Public Health I-III.
- Also highly recommended are 140.621–623 Statistical Methods in Public Health I-III OR 140.711-140.722 Advanced Data Science I-II.

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