

# URBAN ENVIRONMENTAL POLLUTION AND HEALTH (BRIDGE GRADUATE CERTIFICATE)

PHC 7650	Advanced Topics in Pharmacology	1-6
PSL 7775	Current Research Topics in Reproductive Science	3

The BGC in Urban Environmental Pollution and Health prepares students for careers requiring applied trans-disciplinary expertise suitable for addressing complex urban environmental health issues. The BGC will provide students with the foundational knowledge needed to engage in urban environmental health initiatives from the perspectives of public health, economics, and public policy.

The Bridge Graduate Certificate in Urban Environmental Pollution and Health will consist of 14 graduate credit hours that will provide students with the foundational knowledge needed to engage in urban environmental health initiatives from the perspectives of public health, economics, and public policy.

## Required Core Courses

There are three core courses (a total of eight credits) required for the BGC, which are listed below. The core courses address the built environment, environmental justice, teratology, policy, and economics, all of which include units on VOCs. The BGC is intended to be earned concurrently with a graduate degree.

Code	Title	Credits
BIO 7310	Sustainability of Urban Environmental Systems	2
CE 7995	Special Topics in Civil Engineering II (Environmental Pollutants)	3
PSL 7730	Reproductive Sciences: Teratology	3

## Elective Credits

Students are required to complete a minimum of six credits from the below list of courses. Individual course selections for these specialized elective credits will be determined by the trainee's graduate committee and outlined in their IDPs, designed to provide a foundation for an interdisciplinary education to best meet their specific career objectives.

Code	Title	Credits
<b>Specialized Civil and Environmental Engineering Electives</b>		
CE 5220	Environmental Chemistry	3
CE 5240	Air Pollution Engineering	3
CE 5410	Energy, Emissions, Environment (E3) Design	3
CE 6160	Principles of Atmospheric Chemistry and Applications	3
CE 6270	Sustainability Assessment and Management	3
CE 7160	Advanced Principles of Atmospheric Chemistry and Applications	3
CE 7240	Advanced Air Pollution Engineering	3
CE 7270	Big Data Applications in Environmental Engineering	3
<b>Other Specialized Electives</b>		
BIO 6420	Ecotoxicology and Risk Assessment	3
COM 7010	Special Topics	1-3
COM 7170	Health and Risk Communication	3
ECO 6800	Advanced Urban and Regional Economics	4
FPH 7430	Application of Public Health Principles	3