

# URBAN SUSTAINABILITY (GRADUATE CERTIFICATE)

The Graduate Certificate in Urban Sustainability equips students for careers requiring professionally-oriented, foundational, and applied interdisciplinary expertise suitable for addressing complex urban sustainability challenges that require an integrated understanding of social science, scientific, and engineering perspectives. It permits graduates to pursue sustainability careers in state, regional, and local governments; non-profit and community organizations; private associations such as chambers of commerce; industry; or private businesses and civic institutions engaged in addressing sustainability within their organizations.

Applicants must meet the admission standards of the Graduate School (<http://bulletins.wayne.edu/graduate/general-information/admission/>). In addition, applicants must submit a completed application form, evidence of a completed baccalaureate degree from an accredited college or university with a g.p.a of 3.0 or more, two letters of recommendation, and a personal statement on why the student would like to pursue the Graduate Certificate in Urban Sustainability.

The Graduate Certificate in Urban Sustainability requires a minimum of 15 credits. The certificate may be earned independently of or concurrently with a graduate degree. It must be completed within three years, a minimum grade point average of 3.0 in certificate courses must be maintained, and only nine credits of certificate course work may be applied toward a graduate degree at Wayne State.

Code	Title	Credits
<b>Core credits</b>		
UP 6470	Environmental Planning	3
UP 6700	Geographic Information Systems	4
BIO 7310	Sustainability of Urban Environmental Systems	2
<b>Elective credits</b>		
Students are required to complete two electives (minimum 6 credits) from the following:		6
<b>Career-specific electives</b>		
BIO 6420	Ecotoxicology and Risk Assessment	
BIO 7540	Landscape Ecology	
CE 5410	Energy, Emissions, Environment (E3) Design	
CE 6270	Sustainability Assessment and Management	
COM 7170	Health and Risk Communication	
UP 6260	Land Use Policy and Planning	
UP 6340	Community Development	
UP 6680	Neighborhood Decline and Revitalization	
<b>Specialized applications-based methods electives</b>		
BIO 5040	Biometry	
ESG 5650	Applied Geologic Mapping	
ESG 6160	Applied Remote Sensing	
ESG 6170	Spatial Statistics and Analyses for Environmental Applications	
UP 7130	Advanced GIS Applications	

## Other, non-coursework requirements

In addition to the coursework outlined above, students in the certificate will be required to attend six environment/sustainability related seminars during the course of their study. There are now numerous such opportunities at WSU, including those hosted by Water@Wayne, Urban Studies and Planning, Environmental Science and Geology, ad

hoc seminar series like the one organized by T-RUST and the University of Windsor, and Green Street by the Office of Campus Sustainability. Students will be required to obtain signatures on a pre-designed form either from the presenter or the organizer of the seminar confirming their attendance.

Because of the likely prevalence of online conferences in the future, students will be permitted to attend conferences virtually and use electronic forms to verify attendance.