



The certificate in **sustainable urban infrastructure** is for students and working professionals who seek an interdisciplinary curriculum in the broad field of sustainable infrastructure to address complex water, energy, built environment and transportation challenges using engineering and social science strategies.

The certificate program can be taken in conjunction with the Master of Public Administration degree program but is also open to any enrolled or non-degree student. Those wishing to obtain the certificate in sustainable urban infrastructure are required to complete four courses. Individuals with undergraduate degrees in a range of disciplines (science, engineering, finance, policy, urban planning, etc.) are eligible to take these classes and receive the certificate. Upon deciding to enroll in this certificate program, students are asked to register with the sustainable urban infrastructure program coordinator by completing a short form.

Four courses are required to receive the certificate:

Introduction to Sustainable Urban Infrastructure

This course focuses on developing uniform vocabulary on sustainable infrastructure across science and technology, architecture and planning, public policy and health and behavioral sciences. Students learn concepts, principles/pathways and evaluation techniques for promoting the diffusion of sustainable urban infrastructures.

Defining and Measuring Sustainability

This is a unique cross-disciplinary course that teaches students community engagement strategies to define sustainability goals. Life-cycle assessment and material flow analysis tools are used to measure environmental sustainability benchmarks. Public engagement techniques such as focus groups and surveys are taught. Fieldwork applies both tools to cities in Colorado.

Theories of Sustainable Infrastructure Management

This class will explore various theories and frameworks used in engineering, planning, public affairs and social sciences for understanding and implementing sustainability as it relates to urban infrastructure.

Sector Specific Elective

The fourth and final course in the certificate program is sector specific elective that must be related to the topic of sustainable infrastructure. Students should discuss the selection of this course with the IGERT program director and program coordinator. This course is meant to enhance the students' knowledge of sustainable infrastructure. Example courses would include: sustainable urban water systems, sustainable energy systems development, energy conversion, etc.

For more information or to get started, please contact:

Meghan Bernard

E-mail: Meghan.Bernard@ucdenver.edu

Phone: 303-556-6086