

Sustainable Development

Director

David M. Cwiertny (Chemical and Biochemical Engineering/
Chemistry/Civil and Environmental Engineering)

Graduate degree: MS in sustainable development

Website: <https://sdg.grad.uiowa.edu/>

Courses

Sustainability Development Goals Courses

SDG:4000 The United Nations Sustainable Development Goals: A Blueprint for a Sustainable Future 3 s.h.

Establishment of baseline competencies among students from diverse backgrounds; introduction to the United Nations sustainable development goals framework; foundational concepts for sustainable development (e.g., life-cycle analysis, systems thinking, data processing, visualization). Same as SEES:4000.

SDG:5100 Building Future Leaders in Sustainable Development 3 s.h.

Focus on competencies needed to translate training and research into action for social good; topics include ethics, cultural competency, collaboration and team science, use-inspired design, and engagement. Same as CEE:5151.

SDG:5225 Communicating Data Through Stories 3 s.h.

How to communicate science effectively and responsively with multiple audiences from peers and professors to potential employers, policymakers, and the lay public; focus on speaking about science clearly and vividly in ways that can engage varied audiences, especially those outside the student's own field; connecting and finding common ground with an audience, defining goals, identifying main points, speaking without jargon, explaining meaning and context, using storytelling techniques and multimedia elements. Same as CEE:5225, GRAD:5225.

SDG:6000 Sustainable Communities Lab I 3 s.h.

Experience working on a two-semester project involving a current planning issue, usually for a client. Requirements: urban and regional planning graduate standing. Same as URP:6209.

SDG:6210 Sustainable Communities Lab II 3 s.h.

Continuation of URP:6209. Prerequisites: URP:6209. Requirements: urban and regional planning graduate standing. Same as URP:6210.

SDG:6325 Thesis: Sustainable Development 1-5 s.h.