

Life Cycle Thinking in Sustainability

Course Title	Credits	Last Offered	Description
ABE 590 Water, Technology and Society	3	F17	Discussion course on concepts associated with wicked problems at the intersection of water, technology and society issues
AGEC 528 Global Change And The Challenge Of Sustainably Feeding A Growing Planet	3	S19	This course investigates the major drivers of global agricultural and environmental change associated with the global farm and food system. This includes demography, income growth, biofuels, climate change, environmental and ecosystem services, livestock consumption, food waste and land use change.
*CE355 Engineering Environmental Sustainability	3	S19	An introduction to the examination of global-scale resource utilization, food, energy and commodity production, population dynamics, and their ecosystem impacts.
CE 597 Global Sustainable Engineering	3	F18	Course is designed for professionals is constructed specifically for Mechanical Engineers, Industrial Engineers, Aeronautical Engineers and those involved in the Transportation or Energy sector. Anyone interested in applying Sustainability principles to product life cycles or business strategies would benefit from this course. Students completing this course will be able to identify strategic opportunities for change that are in congruence with globalization, urbanization and a future sustainable economy. Students will understand the scope and scale of human activity on global ecosystems and be able to integrate modifications to engineered systems that will reduce adverse environmental impacts, improve product quality and appeal to informed consumers.
*EEE 430 Life Cycle Analysis and Industrial Ecology	3	S19	Introduction to life cycle assessment techniques of industrial products in terms of environmental impact of both production and consumption processes

EEE 530 Life Cycle Assessment: Principles and Applications	3	F18	This course will deal with the principles of life cycle assessment (LCA) and the uses of LCA will be illustrated with industrial case studies using state-of-the-art software packages.
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*Students can have up to 6 credits of 300-400 level courses applied to their plan of study.