

Number & Title of Course:

ARCH 3010 Sustainable Design, 3 credits

Course Description:

This course presents a sustainable approach to architecture considering social and economic issues; resource conservation through design of site, building envelope, and the building systems.

Course Goals:

- The primary goal of this course is to identify and explore sustainable principles as they relate to the role of designing the built environment.
- The course will prepare students to address economic, social, political, and environmental influences as they relate to sustainable design strategies.

Course Objectives:

- At the conclusion of this course students should be able to employ principles that protect and preserve natural resource and create healthier environments for people
- At the conclusion of this course students should be able to apply principles that guide the appropriate selection of materials and employment of resources.
- At the conclusion of this course students should be able to discuss the ethical, moral and economic concerns involved with informing the public discourse and influencing building design.

Student Performance Criteria addressed:

A.7. History and Global Culture

B.10. Financial Considerations

Topical Outline:

Sustainable Principles (50%)

Influence of Culture and Climate (15%)

Theories of Sustainable Applications (30%)

Financial Considerations (5%)

Prerequisites:

Junior standing

Textbooks/Learning Resources:

Various texts on sustainable and environmental design

Offered:

Spring, Annually

Faculty assigned:

Kirk Morphew, AIA, NCARB, LEED AP BD+C Professor of Architecture (Spring 2019)

Joshua Lyons, AIA, NCARB, LEED AP BD+C, WELL AP Adjunct Asst Prof of Arch (Spring 2018)