CREDIT HOURS: 3.00

CONTACT HOURS: 45.00

COURSE DESCRIPTION:
This course will provide a broad-based introduction to sustainability that is applicable to all majors. This course examines the historical context and advancement of sustainability as a concept in society. The ethical and scientific basis for sustainable design in the built environment will be examined. Topics to be explored include: Renewable Energy, Sustainable Building and Site Design and the development of Sustainable Communities. Students will analyze how these technologies are utilized in rural, urban and industrial settings. They will also gain general knowledge on how to shape the consumer culture in applying more sustainable practices in design.

PREREQUISITES: NONE

EXPECTED COMPETENCIES:
Upon successful completion of this course, the student will:

1. Design and explain different views on sustainability
2. Illustrate an understanding of environmental conservation and some of the founders of the movement
3. Discuss the historical and socio-cultural aspects of environmental sustainability and sustainable design
4. Demonstrate an understanding of sustainable development
5. Explain the cycle of use for sustainable products, including the waste product stream as it compares to “traditional product” use.
6. Demonstrate and understanding of sustainability in the built environment and elaborate on examples of case studies of same
7. Identify and understand the environmental impacts of renewable energy sources utilized in sustainable design
8. Analyze the economical and environmental impacts of renewable energy sources and sustainable materials
9. Analyze the social issues, human perception and evolution of aesthetics in sustainable design
10. Identify products and materials utilized to create a sustainable environment.
11. Analyze and explain the role of sustainability in the following areas: urban life, commerce, consumption, and urban transportation.
12. Understand the concept of sustainable communities and how that concept can be utilized to revitalize the inner city of urban fabric
13. Discuss the impact of sustainability on the environment and the economy.

ASSESSMENT METHODS:
Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.
GRADING SCALE:
90%-100% = A
80%-89.9% = B
70%-79.9% = C
60%-69.9% = D
<60% = E