CREDIT HOURS: 3.00

CONTACT HOURS: 45.00

COURSE DESCRIPTION:
This course will assess concepts that are utilized in sustainable design to design, construct and retrofit commercial and residential building systems. During this course, the following topics will be explored: electricity, water systems, HVAC systems and connective systems for monitoring commercial and residential energy use.

PREREQUISITES: SED 100, RET 100

EXPECTED COMPETENCIES:
Upon completion of this course, the student will be familiar with:
- A theoretical discourse and practical application experience(s)/model(s) when considering construction methodology.
- A series of professionals in the fields of electricity, municipal water supply, HVAC/REHC Systems, and connective monitoring systems will be scheduled to provide input to students.
- The latter portion of the course is suggested to be group activities that result in each group conducting a power point presentation on either a new construction or retrofit project; including a full budget and equipment models.
- The sustainable environmental design concepts they are aware of to help them understand the importance of these concepts to the world today; develop an ethical basis for understanding the importance of thinking sustainably; and, teach students how these concepts can be applied to effect positive change in reducing day-to-day carbon emissions and thus their quality of LIFE.

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