ST 102  Applications of Sustainable Technologies

CREDIT HOURS:  3.00

CONTACT HOURS:  45.00

COURSE DESCRIPTION:  This course is designed for persons who are interested in researching and/or designing and implementing a specific project in sustainable business, sustainable energy, or the social/economic implications of following a set of sustainability related principles in business. Examples of projects may include: Conducting technical and economic analysis of a product or service, creating a business plan based on sustainable principles; conducting an energy analysis or creation of a management plan for a sustainable energy project at a specific project location.

PREREQUISITES:  Any SED, RET, WET, GTT or AUT 150-155 Class

EXPECTED COMPETENCIES:

Upon completion of this course, the student will be familiar with:

- Demonstrate the knowledge necessary to create a clearly written proposal identifying a research project idea with sustainability implications.
- Demonstrate a clear understanding of how to present project data in easily digestible formats.
- Prepare and present, (after approval of the instructor on the topic and approach), the sustainability project researched. Topics may include sustainability procedures and business protocol, energy efficiency and sustainability, sustainable product design, sustainable services, sustainability and the built environment, sustainable practices in transportation or other, as approved.
- Demonstrate an increased awareness of job prospects in the sustainability field and how one goes about securing employment in an emerging profession.

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