SUBJECTS AND COURSES

COURSE DESCRIPTIONS - ELECTRICAL TECHNOLOGY (ELT)

ELT 110   Wiring Methods
This course is a study of various tasks, wiring methods, materials, and associated NEC (National Electric Code) requirements that students will be required to work with in residential and commercial wiring courses.
5 Credit Hours

ELT 116   Residential Wiring
PREREQUISITE: As required by program. NOTE: There is an approved standardized plan-of-instruction for this course. This course is a study of residential wiring practices and methods, the NEC requirements and residential blueprint interpretations. Note: This course is a suitable Core substitute for ELT 114 & ELT 115.   **8 Credit Hours**

ELT 117   AC/DC Machines
This course covers the theory and operation of DC motors single and three phase AC motors and the labs will reinforce this knowledge. Emphasis is placed on the various types of single and three phase motors, wiring diagrams, starting devices, and practical application in lab. This is a CORE course.   **5 Credit Hours**

ELT 118   Commercial/Industrial Wiring I
This course focuses on principles and applications of commercial and industrial wiring. Topics include electrical safety practices, an overview of National Electric Code requirements as applied to commercial and industrial wiring, conduit bending, circuit design, pulling cables, transformers, switch gear, and generation principles.   **5 Credit Hours**

ELT 182   Special Topics: ELT Technology
PREREQUISITE: As required by program. These courses provide specialized instruction in various areas related to electrical technology. Emphasis is placed on meeting students' needs.   **4 Credit Hours**

ELT 200   Special Topics in ELT
This course provides additional time and or practice for the electrical technology major or a project which will enhance his/her abilities to perform required tasks. Emphasis is placed on the upgrading of the student?s skills and abilities. Upon completion, students should be able to perform at a higher ability within his/her chosen field of study.
9 Credit Hours