Course Prefix and Number: ETR 164 Credits: 3

Course Title: Upgrading and Maintaining PC Hardware

Course Description (including lecture hours, lab hours, total contacts)
Teaches upgrading of the system CPU, memory, drives, multimedia components, modem, and video card in a microcomputer. Covers hardware as well as software related maintenance issues. Prerequisite: MTH 2 or equivalent. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

General Course Purpose
This is a required course in the Electronics Technology Career Studies Certificate program.

Course Prerequisites/Corequisites (Entry-level competencies required for enrollment)
Prerequisite: MTH 2 or equivalent.

Course Objectives (Each item should complete the following sentence.)
Upon successful completion of the course, the student will be able to:
   a. identify microcomputer architecture, major components and terminology.
   b. identify peripherals and storage devices.
   c. demonstrate replacement and or upgrade of microcomputer system devices.
   d. understand and utilize necessary operating system interfaces with replacement devices.
   e. identify and demonstrate basic maintenance practices for microcomputer systems

Major Topics to be Included
Microcomputer Maintenance and Upgrade of the following:
   a. System CPU
   b. Memory
   c. Drives
   d. Multimedia components
   e. Modem
   f. Video cards
   g. Interface software
   h. Software maintenance.

Effective Date of Course Content Summary: May 2009