

## Computer Engineering Tech (CPET)

### **CPET 1050 Managing Computers: Hardware**

**3 Credits**

*Prerequisite: ITIS 1007; or permission of instructor.*

This course provides the fundamental knowledge necessary to install, configure, and troubleshoot computer hardware. The course covers assembly/disassembly of system units, installing and replacing motherboards, system memory, storage devices, power supplies, and input/output device. Setting up and supporting a local network and mobile devices are introduced as well as virtualization and cloud computing. This course is cross-listed as ITIS 1050. Students who have taken the course under the alternative course ID should not take this course.

(4.5 contact hours: 1.5 lecture, 3 lab)

### **CPET 1051 Managing Computers: Software**

**3 Credits**

*Prerequisites: ITIS 1050 or CPET 1050.*

This course provides the fundamental knowledge necessary to install, configure, and troubleshoot computer software. The course focuses on the basics of installing, securing, maintaining, and troubleshooting a Windows operating system and the resources it shares. Considerations unique to mobile devices, macOS, and Linux are introduced. This course is cross-listed as ITIS 1051. Students who have taken the course under the alternative course ID should not take this course.

(4.5 contact hours: 1.5 lecture, 3 lab)

### **CPET 1120 C Prog for Technicians**

**3 Credits**

This course introduces fundamental structured C programming concepts as applied to technical problem solving and hardware programming. Students will develop applications using branching, looping, disk input/output, arrays, pointers, operators, and structures. They will also develop, test, and debug hardware control and monitor applications in the laboratory. No previous programming experience is necessary. This course is cross-listed as ITCS 1120. Students who have taken this course under the alternative course ID should not take this course..

(5 contact hours: 2 lecture, 3 lab)

### **CPET 2560 Introduction to Telecommunications Principles**

**2 Credits**

*Prerequisite: ELEC 1120 or permission of instructor.*

This course covers noise, signal quality and measurement, modulation and demodulation principles, and transmission mediums as applied to over-the-air and landline telephony services.

(2 contact hours)