

## Master Syllabus

### EET 2264 - PC Troubleshooting & Repair

**Division:** Science, Mathematics and Engineering

**Department:** Electronics Engineering Technology

**Credit Hour Total:** 4.0

**Lecture Hrs:** 3.0 **Lab Hrs:** 3.0

**Prerequisite(s):** EET 1164

**Date Revised:** October 2012

---

### Course Description:

Familiarization of circuits, components, malfunctions and systematic troubleshooting of personal computers, installation of basic computer operating systems (OS), network topologies, including hands-on experience with software and hardware diagnostic tools and equipment. Three classroom, three lab hours per week.

### General Education Outcomes:

- ▣ Oral Communication Competency
- ▣ Critical Thinking/Problem Solving Competency
- ▣ Computer Literacy Competency
- ▣ Information Literacy Competency
- ▣ Values/Citizenship/Community Competency

### Course Outcomes:

#### Installation

Perform installation of operating systems and networking hardware.

**Assessment Method:** Performance appraisals

**Performance Criteria:** Score "17.5" or better on a five by five rubric

**Assessment Method:** Portfolios

**Performance Criteria:** Score "17.5" or better on a five by five rubric

#### Interfacing and networking

Demonstrate interfacing between major components and install, configure, and test basic network hardware.

**Assessment Method:** Performance appraisals

**Performance Criteria:** Score "17.5" or better on a five by five rubric

#### Troubleshooting and repair

Demonstrate techniques to troubleshoot and repair computers using diagnostic software and test equipment.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Score 70% or higher

### Outline:

Internal computer components  
Input and output devices  
Replacement components  
Hardware /software diagnostic flowcharts  
Hardware /software repair tools and methods  
Basic PC repair forms concept mapping  
Basic PC networking  
Documentation management techniques  
Operating systems and installation  
Networking hardware basics and installation