**10/29/13** DATE                                          Technology   DIVISION
___X___ **REQUIRED COURSE**                    ___X___ NEW COURSE
___X___ **ELECTIVE COURSE**                    _____ REVISION

# LAKE LAND COLLEGE
## Course Information Form

**COURSE NUMBER**  __EET 077__  **TITLE**  __PC Pro__

**SEM CR HRS** __4__  **LT HRS** __4__  **LAB HRS** __0__  **SOE HRS** _____  **ECH** _____

**COURSE PCS#** _____  (Assigned by Administration)

**Prerequisites:**  **EET060 or permission of instructor**

**Catalog Description** (40 Word Limit):

This course prepares students for the TESTOUT PC Pro exam and the Computing Technology Industry Association A+ Exams.

| List the Major Course Segments (Units) | Lt Hrs | Lab Hrs |
|---|---|---|
| Computing Overview | 4 | |
| PC Technician | 4 | |
| System Components | 4 | |
| Peripheral Devices | 4 | |
| Storage | 4 | |
| Networking | 4 | |
| Printing | 4 | |
| Mobile Devices | 4 | |
| Windows System Management | 4 | |
| System Implementation | 4 | |
| File Management | 4 | |
| Security | 4 | |
| Troubleshooting | 4 | |
| Capstone Exercise | 4 | |
| PC Pro Certification | 4 | |

**EVALUATION:**  **Quizzes** __X__  **Exams** __X__  **Oral Pres** _____  **Papers** _____
                 **Lab Work** _____  **Projects** _____  **Comp Final** __X__  **Other** _____

**Textbook:**   **Title:**     **PC PRO**
               **Author:**    **ISBN: 978-1-935080-42-8**
               **Publisher:**  **TEST OUT**
               **Copyright Date: 2012**

| Major Course Segment | Lecture Hours | Learning Outcomes The student will be able to: |
|---|---|---|
| Computing Overview | 4 | Identify, install, configure, and upgrade microcomputer modules and peripherals including IRQs, DMAs, I/O, and switches. |
| PC Technician | 4 | Identify common symptoms and problems associated with each module and understand how to troubleshoot and isolate problems. |
| System Components | 4 | Demonstrate the knowledge of components that make up a computer system. |
| Peripheral Devices | 4 | Distinguish between different CPU's, identify categories of RAM, and understand the basic principles of microcomputer systems. |
| Storage | 4 | Identify the purpose for various types of storage devices. |
| Networking | 4 | Understand basic network concepts and terminology and can identify if a computer is networked. |
| Printing | 4 | Identify the basic printer types, print concepts, and service techniques. |
| Mobile Devices | 4 | Identify components unique to portable systems. |
| Windows System Management | 4 | Understand the types of memory used by Windows, and the potential for memory conflicts. |
| System Implementation | 4 | Install, configuring, and upgrading DOS and Windows, including system boot sequence. |
| File Management | 4 | Configure NTFS permissions, change file ownership, share a file, and configure offline files |
| Security | 4 | Protect against malware and social engineering attacks. |

| | | |
|---|---|---|
| Troubleshooting | 4 | Diagnose and troubleshoot common problems relating to DOS and Windows. This including the understanding of normal operation and common symptoms. |
| Capstone Exercise | 4 | Understand the network capabilities of Windows and how to connect to networks, including basic internet access. |
| PC Pro Certification | 4 | Verify concepts utilizing simulation software of computer hardware and operating system. |

**Course Outcomes:** At the successful completion of this course, students will be able to:

- Demonstrate the knowledge of components that make up a computer system.
- Differentiate among typical LAN topologies.
- Describe the various methods used to place computer print on paper.
- Identify the most popular types of motherboards, their components, and their architecture.
- Identify and differentiate between different types of storage systems.