CS 1153: INTRODUCTION TO COMPUTER TECHNOLOGIES

SYLLABUS

Course Description: Students will learn fundamental concepts of hardware and software prior to learning tools of support technicians. Topics will include the computer architecture, the instruction execution cycle, I/O and storage. In addition, students will learn basics of digital electronics, how to perform mathematical operations and conversions on multiple numbering systems, develop fundamental problem-solving skills for troubleshooting, and investigate career opportunities within the information technology industry.

Course Competencies:
Students who successfully complete the course will be able to:
- Explain the information processing cycle.
- Identify hardware devices and their role in the information processing cycle.
- Identify and distinguish between systems and applications software.
- Discuss the fundamentals of computer networks.
- Apply industry standards for internet applications.
- Acquire skills required to develop and manage an information system.
- Justify the importance of information systems for all successful organizations.
- Discuss the impact of computers in our lives.

Course Requirements: This course includes both a lecture and hands-on computer class. Class time will be devoted to lecture and demonstration of various aspects of computer technology. Some portion of class time will be devoted to lab time. The students are expected to remain for the entire class period. It is the student's responsibility to arrange his or her schedule for completion of any assignments outside of class periods that are not completed in class.

Global Education Competency: This course addresses the global awareness competency. Global issues are infused throughout the course. Some of the examples include global computer security, global e-commerce, intellectual property rights in other countries, and global environment issues caused by using computers.

Note: This sample syllabus is being provided in order to give general knowledge of the subject and should not be considered the sole outline of the course. Class format, assignments, and due dates may vary by professor.