

SYLLABUS
PART I
EDISON STATE COMMUNITY COLLEGE
CIS 215S IT ESSENTIALS
3 CREDIT HOURS

COURSE DESCRIPTION

Exploration of computer software, hardware, components, and peripherals. Emphasis on the importance of an IT specialist's ability to recognize, install, change, and modify computer systems and components. Configuration and connection of peripheral equipment is explored, as is the installation of network hardware and cabling. Prepares students for the CompTIA A+ certification exams. Lab fee.

COURSE GOALS

The student will:

Bloom's Level		Program Outcomes
1	1. Select the appropriate computer components to build, repair, or upgrade personal computers.	4, 7, 8
3	2. Install and configure components to build, repair, or upgrade personal computers.	3, 4, 7, 8
3	3. Perform troubleshooting on personal computers.	3, 4, 5, 7, 8
2	4. Explain how computers communicate on a network.	3, 4, 5, 7, 8
3	5. Configure devices to communicate on a network.	6, 8
2	6. Explain how to troubleshoot laptops and other mobile devices.	3, 4, 5, 7, 8
3	7. Install a printer to meet requirements.	4, 7, 8
2	8. Describe virtualization and cloud computing.	4, 7, 8
3	9. Install, manage, and maintain Windows operating systems.	3, 4, 5, 7, 8
2	10. Explain how to configure, secure, and troubleshoot mobile, Mac, and Linux operating systems.	3, 4, 5, 7, 8
3	11. Implement basic host, data, and network security.	3, 5, 6, 7, 8
2	12. Explain the roles and responsibilities of the IT professional.	1, 3, 4, 5, 6, 7, 8

CORE VALUES

The Core Values are a set of principles that guide Edison State Community College in creating its educational programs and environment. They will be reflected in every aspect of the College. Students' educational experiences will incorporate the Core Values at all levels, so that a student who completes a degree program at Edison State Community College will not only have been introduced to each value, but will have had them reinforced and refined at every opportunity.

TOPIC OUTLINE

1. Introduction to Personal Computer Hardware
2. PC Assembly
3. Advanced Computer Hardware
4. Preventive Maintenance and Troubleshooting
5. Networking Concepts
6. Applied Networking
7. Laptops and other Mobile Devices
8. Printers
9. Virtualization and Cloud Computing
10. Windows Installation
11. Windows Configuration
12. Mobile, Linux, and OS X Operating Systems
13. Security
14. The IT Professional