

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: ITN 106

Credits: 3

Course Title: Microcomputer Operating Systems

Course Description: Teaches use of operating system utilities and multiple-level directory structures, creation of batch files, and configuration of microcomputer environments. May include a study of graphical user interfaces. Lecture 3 hours per week.

General Course Purpose: This course introduces PC, laptop, and mobile device operating systems and troubleshooting.

Course Prerequisites and Co-requisites:
None

Student Learning Outcomes:

Upon completing the course, the student will be able to

- a. Compare, contrast and use the appropriate features of various Microsoft Operating Systems, Android phones, iPhone, and Linux based systems;
- b. Identify and use common security measures necessary to protect computers, networks, tablets, and mobile devices;
- c. Establish basic network connectivity and configure email;
- d. Execute and configure mobile device synchronization; and
- e. Given a scenario, troubleshoot, identify, and remedy common problems related to personal computers, laptops, mobile devices using appropriate software tools.

Major Topics to Be Included:

- a. Windows Operating Systems including
 - o Installing windows
 - o Maintaining windows OS
 - o Troubleshooting Windows and Applications
- b. Linux based systems
- c. Apple OS systems
- d. Connecting to and Setting up a Network
- e. Security Strategies
- f. Mobile Devices and Client-Side Virtualization

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