

ITMO 450 SYLLABUS**ITMO 450 Enterprise End-User System Administration**

Hours: 3 credit hours / 45 contact hours

Instructor: Vasilios "Billy" Pappademetriou

Text book, title, author, and year: *Exam Ref 70-698
Installing and Configuring Windows 10 (2nd Edition)*
by Andrew Bettany and Andrew Warren, 2018

Specific course information

- a. **Catalog description:** Students learn to set up, configure, and maintain end-user desktop and portable computers and devices in an enterprise environment using a contemporary proprietary operating system, including the actual installation of the operating system in a networked client-server environment. User account management, security, printing, disk configuration, and backup procedures are addressed with particular attention to coverage of networked applications. System installation, configuration, and administration issues as well as network file systems, network access, and compatibility with other operating systems are also addressed. Administration of central server resources associated with management and provisioning of end-user systems in workgroups, domains, or forests is also addressed.
- b. **Prerequisites:** ITM 301
- c. **Selected Elective.**

Specific goals for the course

- a. **Course Outcomes:**
Upon successful completion of the course the student will gain basic abilities to:
 - Administer End-User Enterprise Servers as a System Administrator
 - Configure server, network, and software applications setup environment
 - Set up a Client Server Environment
 - Demonstrate skills and knowledge of server administrator's responsibilities and support of enterprise applications
 - Provide support planning, development, integration, testing and management of IT services
 - Provision of end-user systems in workgroups, domains
 - Analyze server recurring issues and work on sustainable solutions.
- b. **Course student outcomes:**
At the conclusion of this course, each student should be able to:
 - Install and manage End-User Enterprise Servers
 - Implement Windows in an Enterprise Environment

- Manage server, client computers, users, and active directory
- Apply server security, software distribution and updates
- Perform scheduled vulnerability-assessment scans and monitoring server performance
- Design Infrastructure requirements and manage compatibility issues
- Set up and manage server system networking
- Manage storage, file structure, and directory services
- Monitor logs for firewalls and intrusion detection systems

Topics to be covered

- a. Introduction. IIT Banner, Class basics
- b. Preparing for Installation Requirements
- c. Configuring Devices and Device Drivers
- d. Performing Post-Installation Configuration
- e. Implementing Windows in an Enterprise Environment
- f. Configuring Networking
- g. Midterm Presentations / Midterm Exam
- h. Configuring Data Access and Usage
- i. Implementing Apps
- j. Configuring Remote Management
- k. Monitoring Windows
- l. Configuring System and Data Recovery
- m. Configuration Advanced Management Tools