

Course Syllabus

Southeast Missouri State University

Department: Industrial and Engineering Technology

Course No.: ET-395

Title of Course: Server Maintenance & Troubleshooting
Course Web URL (<http://cstl-pti.semo.edu/wu/et395>)

Revision: New

Instructor: Dr. Shuju Wu

Office: PB 213L

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I. Catalog Description and Credit Hours of Course:

Installation and configuration of network operating systems with focus on network communications, server setup, maintenance, troubleshooting, and administration using UNIX, Linux, Windows 2000, NT, and XP network operating systems. 3 Credit Hours (2 hours lecture and 2 hours lab)

II. Prerequisite: ET375

III. Objectives of the Course:

Hands-on curriculum, teaching Internet Network Operating Systems and specific skills:

1. Understand administrative tasks and network services with Microsoft Windows, UNIX and Linux.
2. Hardware installation under different operating system, configuration of network services, including network security and troubleshooting.
3. Perform network administration including backups, drive mapping, partition and process management, monitoring resources, analyzing and optimizing network Performance.
4. Master command-line features of the Linux environment including file system navigation, file and user permissions, editors, command shells, and network use.
5. Explore GUI features including Applications Manager, Text Editor, printing, and mail.

IV. Expectation of Students:

1. Students are expected read assigned materials.
2. Students are expected to complete all assignments. Assignments will ONLY be accepted on the due dates provided, unless previous arrangements are made or student provides a written medical doctor's excuse.
3. Students are expected to participate in class and group discussions

4. Student work will be completed in accordance with Code of Student Conduct (<http://www6.semo.edu/judaffairs/code.html>)
5. In a professional environment, work areas are kept clean. In keeping with a professional attitude towards fellow students, always clean your area before leaving
6. All laboratory work must be completed during the regularly scheduled lab time.

V. Course content:

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| 1. Introduction to Operating Systems
(Microsoft Windows, UNIX and Linux on the Desktop. Network Operating Systems Overview). | 1 Week |
| 2. Network Setup and Management including
Hardware/Software configuration of Gateway,
Routers, and Switches. | 2 Week |
| 3. Overview of Network Services
Remote Administration and Access
Services, Directory Services, Other NOS Services. | 2 Weeks |
| 4. Introduction to Network Operating Systems
(Characteristics of a Network Operating System.
Windows NT/2000 and Linux. Software
Requirements for a Linux NOS). | 2 Weeks |
| 5. Network Operating System installation and boot process | 2 Weeks |
| 6. Network Operating System administration
in Windows 2000 Professional and Linux. | 2 Weeks |
| 7. Operating System maintenance and troubleshooting. | 2 Weeks |
| 8. Security in Network Operating Systems. | 2 Weeks |

VI. Course Textbook:

Cisco™ Networking Academy Program: HP IT Essentials II: Network Operating Systems, Second Edition, 2004.

VII. Course Evaluation:

Grading Policy:

1. Homework:	20 %	90-100	A
2. Labs:	20 %	80-89.9999	B
3. Class participation:*	5%	70-79.9999	C
4. Mid-term Exam:	25 %	60-69.9999	D
5. Final Exam :	30%	< 60	F

*: Participation to class discussions, taking labs, homework, and exams on the assigned time slots.

The instructor reserves the right, acting within the policies and procedures of the university, to make changes in course content or instructional techniques without notice or obligation. No late assignments will be accepted. “**Emergencies**” require that YOU contact the instructor ASAP. Request for a late submission after the due time will not be granted.

VIII. Textbook and Other Required Materials or Equipment::

Cisco™ Networking Academy Program: HP IT Essentials II: Network Operating Systems Lab Companion, Second Edition, 2004.

Cisco™ Networking Academy Program: HP IT Essentials II: Network Operating Systems Journal and Workbook, Second Edition, 2004.

IX. Lab Rules and Safety Agreement:

Students must read, sign and follow the Laboratory Rules and Safety Agreement provided by the instructor.

X. Academic Honesty:

Academic dishonesty is an offense against Southeast Missouri State University. A student who has committed an act of dishonesty has failed to meet a basic requirement of satisfactory academic performance. This academic dishonesty is not only a basis for disciplinary action, but is also relevant to the evaluation of the student’s level of performance. Refer to: <http://www6.semo.edu/judaffairs/code.html>

Disabilities Statement:

If you have special needs addressed by the Americans with Disabilities Act and need special help, notify the university Learning Enrichment Center (573-651-2273) and your course instructor immediately if haven’t done so. Reasonable efforts will be made to accommodate your special needs.