

## FSU CURRICULUM FILE SYLLABUS

DATE APPROVED \_\_\_\_\_ (COMPLETED AT UNIV LEVEL)

COURSE PREFIX/NUMBER: CIS 4407

COURSE TITLE: Computer and Network System Administration

PRE OR COREQUISITES: CGS 3406 or COP 3014 REPEAT CODE: 00

### LIST COURSE OBJECTIVES:

At the end of this course students should be able to

1. administer a multi-user, multi-platform, networked computer system,
2. install and administer Window Server 2003,
3. install and administer Redhat Fedora 3 Linux, and
4. network these two systems together.

OBJECTIVES SHOULD BE BROADLY STATED TO ALLOW FACULTY DIFFERENCES AND ALLOW CHANGES IN MODE OF DELIVERY. ENOUGH DETAIL SHOULD BE GIVEN TO DISTINGUISH FROM OTHER COURSES IN ASSIGNMENT OF A SUS COURSE NUMBER. COMMITTEE APPROVALS ARE REQUIRED FOR A CHANGE IN OBJECTIVES.

### GIVE BRIEF OUTLINE OF TOPICS TO BE COVERED (NO DATES):

<b>Week 1</b>	<u>Course Introduction</u>
<b>Week 2</b>	<u>Introduction to Systems Administration</u> <u>Overview: Operating Systems</u>
<b>Week 3</b>	<u>Overview: Hardware</u> <u>Overview: Booting the System</u> <b>Assignment 1 due</b>
<b>Week 4</b>	<u>Overview: Daemons and Services</u> <u>Overview: More Daemons and Services</u> <b>Assignment 2 due</b>
<b>Week 5</b>	<u>Overview: Network Topologies</u> <u>Overview: TCP/IP</u> <b>Assignment 3 due</b>
<b>Week 6</b>	<u>Subnetting: File Sharing</u> <u>Administrative Powers</u> <b>Assignment 4 due</b>
<b>Week 7</b>	<u>File Systems</u> <u>Overview: Active Directory</u> <b>Assignment 5 due</b>
<b>Week 8</b>	<u>Active Directory: Management and Use</u> <u>Active Directory: Various Tools</u>
<b>Week 9</b>	<u>Active Directory: Various Tools</u> <b>Assignment 6 due</b> Mid-Term Examination
<b>Week 10</b>	<u>Exam Results</u> <u>DNS</u>

<b>Week 11</b>	<u>NIS &amp; Samba</u> <b>Assignment 7 due</b> <u>E-mail Services</u> <b>Assignment 8 due</b>
<b>Week 12</b>	<u>E-mail Services</u> <u>Web Services</u> <b>Assignment 9 due</b>
<b>Week 13</b>	<u>Web Services</u> <u>Security</u> <b>Assignment 10 due</b>
<b>Week 14</b>	<u>Security: Snort, PortSentry</u> <u>Security: Linux IP Tables; ethereal &amp; tcpdump; Disaster Recovery</u> <b>Assignment 11 due</b>
<b>Week 15</b>	<u>Security: nmap, netcat; Backup &amp; Recovery</u> <u>Evaluation and Review</u> <b>Assignment 12 due</b>

**EVALUATION CRITERIA. CHECK ONE (CHANGE IN EVALUATION CRITERIA REQUIRES THE DEPARTMENT TO SUBMIT A NEW SYLLABUS FOR THE FILE)**

EXAMS ONLY (THE NUMBER AND WEIGHT OF EACH TO BE REFLECTED ON THE STUDENT SYLLABUS)

EXAMS AND OTHER (SUCH AS LAB REPORTS OR ASSIGNMENTS, TERM PAPER OR WRITTEN PROJECT, ORAL PRESENTATION; THE WEIGHT OF EACH TO BE REFLECTED ON THE STUDENT SYLLABUS.

NO EXAMS - ONLY ASSIGNMENTS (TO BE DESCRIBED CLEARLY ON THE STUDENT SYLLABUS)