

## NW255 Internetworking II

|                   |                         |
|-------------------|-------------------------|
| <b>Instructor</b> | <b>Course Dates</b>     |
| Tom Sinclair      | 10/16/2007 - 12/20/2007 |

|                        |                     |
|------------------------|---------------------|
| <b>Classroom Hours</b> | <b>Office Hours</b> |
| MTH Noon - 4 PM        | W Noon - 4 PM       |

**Course Description**

This course covers methods for designing and administering Internet-based services. Topics include security, interoperability, and server operations across a heterogeneous infrastructure. Students completing this course should be able to manage and configure services in an internetworked environment.

- Course Objectives**
- Upon completion of this course, students should be able to:
- Configure and troubleshoot networking protocols
  - Apply dynamic host configuration protocol
  - Implement the domain name system
  - Implement windows internet naming service
  - Manage remote access in Windows 2003
  - Describe network address translation in Windows 2003
  - Configure certificate services
  - Install, configure, and administer Active Directory
  - Implement group policy

**Course Prerequisites**

NW202

**Class Breakdown**

|                |     |
|----------------|-----|
| Lecture Hours: | 72  |
| Lab Hours:     | 36  |
| Total Hours:   | 108 |

**Credit Hours**

The credit hours below must be copied verbatim from the course catalog.

CO/IL = 9.0 Credit Hours  
 CA = 8.5 Credit Hours

<Texas only: Insert only Texas credit hours>

### Course Texts

MCSE Guide to Planning a Microsoft Windows Server 2003 Network, Enhanced, Wright, Course Technology, 0619217545. This text comes bundled with:

- Lab Manual for MCSE Guide to Planning a Microsoft Windows Server 2003 Network, ISBN 061912024

MCSE Guide to Microsoft Windows 2003 Active Directory, Aubert, Course Technology, 0619217553. This text comes bundled with:

- Lab Manual for MCSE Guide to Microsoft Windows Server 2003 Active Directory, ISBN 0619130199

### Teaching Strategies

The teaching strategies for this course include facilitated discussion (with visuals as needed), demonstration, class discussion, hands-on guided practice, and feedback.

**Texas only:** The maximum student-instructor ratio in a lecture setting is 30 to 1. In a laboratory setting, the maximum student-instructor ratio is 20 to 1.

### Grading

|   |     |
|---|-----|
| Attendance  | 25% |
| Midterm Project                                   | 30% |
| Final Project                                     | 40% |
| Class Participation, Labs, Special Projects, etc. | 5%  |

At the end of each course, each student is assigned a final grade as follows:

| Grade | Quality Points | Point Range | Interpretation |
|-------|----------------|-------------|----------------|
| A     | 4.0            | 93-100      | Excellent      |
| A-    | 3.7            | 90-92       |                |
| B+    | 3.3            | 87-89       |                |
| B     | 3.0            | 83-86       | Above average  |
| B-    | 2.7            | 80-82       |                |
| C+    | 2.3            | 77-79       |                |
| C     | 2.0            | 73-76       | Average        |
| C-    | 1.7            | 70-72       |                |
| D+    | 1.3            | 66-69       |                |
| D     | 1.0            | 60-65       | Below average  |

|   |     |            |            |
|---|-----|------------|------------|
| F | 0.0 | 59 & below | Failure    |
| I | 0.0 |            | Incomplete |

### Course Completion Requirements

Students must achieve a passing grade of D or above by completing all required examinations, submitting all required lab exercises and projects, and meeting the standards of the school attendance policy.

### Attendance and Classroom Policies

Students are expected to adhere to the attendance and tardiness policies stated in the current catalog.

## Denver South Campus

### Classroom and Lab Policies

**Food and Drinks:** NO food or drinks allowed near the computers.

**Music:** NO music with explicit lyrics will be played out loud in class regardless of the class opinion. NO exemptions will be made. Headphones will be allowed in class during lab time but must be removed during lectures.

**Cell Phones:** Cell Phones are not to be used during class time. Be sure your cell phone is set on SILENT or OFF. It is your responsibility to ensure that your phone does not disrupt the class.

**Westwood Students Only:** The Denver South Campus classrooms and labs are for the use of Westwood students ONLY. Please do not invite friends or family who are not students here to use the classroom or lab facilities. Anyone who would like to visit the campus must sign in at the Front Desk.

**Lab Supervision:** If the lab is locked or currently unsupervised, please go to the Front Desk to sign-in and leave your student ID. If there is no one available to supervise the lab, it may not be possible for you to use the lab until there is a lab supervisor.

**Internet Use:** The Internet connection is provided for work related to your classes at Westwood College. It is not for personal use. Viewing inappropriate sites in a Westwood College classroom or lab is forbidden and could result in sanctions, up to and including expulsion.

**Drug Free Schools Act:** Westwood forbids the use, possession, distribution, or sale of drugs or alcohol by students, faculty, or staff anywhere on the College's property or at College sponsored events off campus. Anyone in violation of state, federal or

local regulations with respect to illegal drugs or alcohol may be subject to both criminal prosecution and campus disciplinary action. Students who are suspected of being under the influence of drugs or alcohol on campus will be sent home in a taxi and face an automatic suspension.

**Attendance:** If you miss more than 10% of this course, you will receive a written warning. If you miss more than 20% of this course, you will be dropped from the class.

**Due Dates:** Assignments are due on the date specified by the instructor. Any assignments turned in after that date will receive a grade of 0 (zero). If you are not finished by the date due, hand in what you have to receive partial credit.

### Course Topics

- Implementing, Configuring, and Troubleshooting Networking Protocols
- Dynamic Host Configuration Protocol
- Domain Name System
- Windows Internet Naming Service
- Remote Access in Windows 2003
- IP Routing in Windows 2003
- IP Security
- Network Address Translation in Windows 2003
- Configuring Certificate Services
- Structure of Active Directory
- Installing, Configuring, and Administering Active Directory
- Performance Monitoring
- Active Directory Maintenance and Recovery
- Implementing Group Policy
- Remote Installation Services
- Active Directory Replication