COURSE DESCRIPTION:
This course provides students with the skills to administer Microsoft Exchange Server including messaging, components, architecture, installation and managing the Exchange environment.

Text (s): Reference Division Booklist
Prerequisites: NET126
Co-requisites: none
Credits: 3 Lecture Hours: 2 Studio/Lab Hours: 2

Food and Drink are strictly prohibited in classrooms as per Health and Safety Laws. Students may not bring in chemicals or cleaning fluids of any kind without the appropriate MSD sheets

Course Coordinator: Jeff Weichert Latest Review: Spring 2013
I. OBJECTIVES

At the completion of this course the student will be able to:

- Describe client/server messaging
- Describe the architecture of Exchange including components
- Install Exchange Server
- Create recipients
- Describe forms, public folders and security
- Manage the Exchange environment

II. EVALUATION

Final grades are determined by a weighted average of midterm and final examinations, quizzes, laboratory assignments, homework assignments, class participation, and attendance. Your final grade in the course will be based on the following:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Class attendance and participation</td>
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<tr>
<td>Homework assignments</td>
<td>15%</td>
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<tr>
<td>Laboratory assignments</td>
<td>15%</td>
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<tr>
<td>Quizzes</td>
<td>20%</td>
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<tr>
<td>Midterm examination</td>
<td>20%</td>
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<tr>
<td>Final examination</td>
<td>20%</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
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III. TOPIC OUTLINE

An introduction to Microsoft Exchange:
- Messaging Systems
- The Client/Server Model
- Enterprise-Wide Computing
- Industry Standards

Microsoft Exchange Architecture:
- Microsoft Exchange Object Organization
- Core Components
- Optional Exchange Components

Component Communication:
- Component Communication within a Single Exchange Server
- Component Communication between Exchange Servers in a Site

Installing Microsoft Exchange Server:
- Preinstallation Considerations
- Installing Exchange Server
- Postinstallation Considerations
- Troubleshooting an Exchange Installation
- Upgrading a Server

(continued)
Recipients in a Microsoft Exchange Environment:
- Mailbox Objects
- Distribution Lists
- Custom Recipients
- Public Folder Recipients
- Management of Recipient Objects

Architecture and Installation of Exchange Clients:
- Client Platforms
- MAPI Architecture
- Microsoft Schedule+
- Microsoft Outlook
- Installing Microsoft Exchange Clients

Configuring Microsoft Exchange Clients:
- Messaging Profiles
- Configuring the RPC Transport
- Remote Mail
- Importing Messages and Address Information
- Exchange Clients in a NetWare Environment

Microsoft Exchange Forms:
- Electronic Forms
- Creating Form Libraries
- Designing Forms
- Installing Forms

Public Folders as a Client Resource:
- Creating Public Folders
- Configuring Public Folders
- Using Public Folders
- Customizing Public Folders

Advanced Security:
- Encryption Methods and Standards
- Installation and Architecture of Exchange Advanced Security
- Configuring Advanced Security
- Advanced Security Operation
- Managing Advanced Security
- Troubleshooting Advanced Security

Internet-Based Exchange Clients:
- Protocol Configuration Overview
- Post Office Protocol
- Internet Message Access Protocol
- HyperText Transfer Protocol
- Lightweight Directory Access Protocol
- Network News Transfer Protocol
- Internet Relay Chat
- Firewalls

(continued)
Managing an Exchange Environment:
- Windows NT Server Tools
- Exchange Administration Program
- Managing Public Folders
- Managing User Storage
- Managing Exchange Databases
- Managing Message Deliver
- Troubleshooting

Connecting Exchange Sites:
- Common Connector Properties
- Site Connector
- X.400 Connector
- Dynamic RAS Connector
- Internet Mail Service
- Message Routing
- Connectors and Message Tracking
- Directory Replication Connector
- Design Scenarios

Internet Mail Service (IMS):
- Domain Name System
- Simple Mail Transfer Protocol
- How the Internet Mail Service Works
- Deploying the Internet Mail Service
- Troubleshooting IMS

Connecting to Microsoft Mail and Lotus cc: Mail:
- MS Mail Overview
- Exchange and MS Mail Interoperability

Migrating to Exchange:
- Migration Strategies
- Migration Tools
- Special Migration Issues
- Troubleshooting a Migration

Planning an Exchange Environment:
- Planning the Exchange Topology
- Planning Sites
- Planning Servers
- Exchange Server Maintenance
- Planning Site Connections
- Planning Connections to Non-Exchange Systems
- Planning Long-Term Administration
- Planning a Disaster Recovery Strategy
- Planning Migrations