

Course Title: Networking Capstone

Prefix and Course Number: CIS 275

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**Course Learning Outcomes:**

**By the end of this course, a student should be able to:**

- Install and configure a LAN
- Setup and configure a server (multiple O/S)
- Gain a better understanding of current technologies used in industry
- Troubleshoot and Document a network

**Course Outline:**

I. Special Topics may include:

- A. Wireless
- B. Citrix
- C. RAID
- D. Protocols
- E. Server Scripting
- F. Security
- G. New Versions of Operating Systems
- H. Certifications
- I. Server Types
- J. Data Communications

II. Methodology

- A. Topic Assignment (Individual Project)
- B. Report to Class on Success/Frustration (15 Minutes)
- C. Provide Instructor with Weekly Progress Report
- D. Individual Presentations to entire program
- E. Graded on Preparation, Knowledge of Material, Presentation (peer and instructor)

*Students will design and develop a network using the instructions and guidelines given by the instructor.*

III. Designing and installing

- A. Hardware and Software Servers
  - 1. Microsoft NT, 2000, 2003
  - 2. Novell NetWare 3.x, 4.x, 5.x
  - 3. Sun Solaris 7, 8, 9
  - 4. OS/2
  - 5. DOS
  - 6. AIX
- B. Topology
- C. Routers, hubs and switches
- D. Network troubleshooting
- E. Documentation

IV. Methodology

- A. Working in groups
- B. Successes/Frustrations
- C. Weekly Progress Report
- D. Communication between groups, servers and workstations to network
- E. Participation, knowledge of material, completion of tasks and documentation