

ETEC 650
Educational Telecommunications (Networking and the Internet)
3 hours

Master Syllabus

Description: This course will develop a fundamental understanding of the technical workings of networking technologies. Topics and exercises will include development and implementation of school networks and include setup and maintenance of LAN and Internet servers. This is a hands-on course for developing and maintaining first line support for educational telecommunications.

Textbook: To be chosen as course is taught. Because of the rapid technological innovation, the textbook for this course will be reassessed semesterly

Evaluation/Assessment: Students will use Windows NT, Novell and LINUX networking products to establish and demonstrate utilization of various networking capabilities. Students will also create a networking plan that includes a wiring diagram and related budget that will be used as part of an authentic assessment.

Objectives: Upon completion of this course, each student should be able to:

Demonstrate a working knowledge of Ethernet networks. Describe the functions of routers, switches and hubs in a network.

Install and configure a network operating system on a server to provide file and print sharing services

Configure computers to provide peer to peer connectivity for shared resources

Create users and provide them with functional a network environment including file and print services

Configure WinTel and MacIntosh client computers to access network resources

Describe available management tools and explain their role in network management

Demonstrate a working knowledge of web server configuration and management