

Course Syllabus
Southeast Missouri State University

Department of Industrial Technology

Course Number: ET-101

Title of Course Network Design and Advanced Routing **Revision:** Fall 99

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I. Catalog Description and Credit Hours of Course:

This course will focus on advanced router configurations, LAN switching, network management, advanced network design, advanced network design projects, and advanced network management projects.

3 credit hours

(4 hours in class/lab and 6 hours outside class/on the internet per week)

II. Prerequisite: ET-100

III. Purposes of the Course:

Upon completion of this course, the students should be able to:

- A. Examine and configure LAN segmentation using bridges, routers, and switches.
- B. Add, move, and change user locations'.
- C. Setup a virtual LAN operation.
- D. Configure distance vector routing protocols.
- E. Test and monitor access lists and routers in networks.

IV. Expectations of Students:

- A. Students will be expected to attend class regularly and be responsible for all information presented in class.
- B. Students will be expected to participate and contribute to the class as appropriate.

- C. Students will be expected to perform satisfactorily on all written/lab assignments (No credit for late work)
- D. Students will be expected to have all assignments adhering to professional standards. (No handwritten assignments)

V. Course Content:	Weeks
A. LAN Switching	1-3
B. Virtual Local Area Networks	4-6
C. Local Area Network Design	7-9
D. Interior Gateway Routing Protocol	10-12
E. Access Control Lists and Novell IPX	13-16

VI. Textbook: All the lessons are on the Web.
Reference Material: Chellis, Perkins and Strebe. MCSE: Networking Essentials Study Guide, Sybex. ISBN: 0-7821-1971-9

VII. Basis For Student Evaluation:

A. Written Exams (Midterm 25%, Final: 25%)	50%
B. Lab Assignments	30%
C. Presentations	20%

Letter grades will be based on the following criteria:

90 -100	= A
80 - 89	= B
70 - 79	= C
60 - 69	= D
Below 60%	= F

(Items in syllabus subject to change at discretion of Instructor)

VIII. Lab Fees: There is a \$10.00 lab fee for this course to cover the cost of lab consumables such as wires, connectors etc.

IX. Disabilities Statement: If you have special needs addressed by the Americans with Disabilities Act and need course materials in an alternative format, notify your course instructor immediately. Reasonable efforts will be made to accommodate your special needs.