CSC 350 - INTERNET TECHNOLOGIES

CREDIT HOURS: 3
PREREQUISITES: CSC 101, 102 or 121.
GRADE REMINDER: Must have a grade of C or better in each prerequisite course.

CATALOG DESCRIPTION

Technology, structure, limitations, and uses of the Internet. E-commerce and digital transactions. Web page design. May not be used to satisfy advanced computer science requirements for a computer science/computer information systems major or a computer science minor.

PURPOSE OF COURSE

The purpose of the course is to develop awareness of the technology, structure, limitations, and uses of the Internet, including developing web pages and exploring Application Service Providers.

EDUCATIONAL OBJECTIVES

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

1. Demonstrate an understanding of the technology, structure, limitations, and uses of interconnected computer network systems.
2. Demonstrate an understanding of e-commerce transactions.
3. Design and develop web pages.
4. Solve problems which can arise in the development of web pages and web sites.
5. Describe strategies which can be used to learn new and/or different web based technologies.
6. Identify a variety of applications available via Application Service Providers.

CONTENT

Orientation. ................................................................. 3
Course requirements, exams and grading
Overview of on-line and network-based systems

Study of the principles and basic concepts of the Internet.................................................... 3
Networking applications and protocols
Basic hardware/software and architectural components
Data communications requirements
Network technologies and topologies
LANS and WANS
Internet security

Applications Service Providers. .................................................... 6
Web page and Web site Design................................................................. 24
The future of the Internet and technology applications. ................................................................. 6
Exams (plus final). .......................................................................... 3

TOTAL 45

REFERENCES
Freeman, Elizabeth., Head First HTML with CSS and XHTML, Safari, 2006.