

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

Hours

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	9
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	9

Web page and Web site Design 18

The future of the Internet and technology applications 3

Exams (plus final) 3

TOTAL 45

REFERENCES

Hughes, Cheryl M., The Web Wizard's Guide to XHTML, Addison-Wesley, 2005.

Napier, Judd, Rivers, & Adams, E-Business Technologies, Course Technology, 2003.

Shelly, Cashman, et. al., HTML Comprehensive Concepts and Techniques, Course Technology, 2005.