CSC 350 - INTERNET TECHNOLOGIES

CREDIT HOURS: 3
PREREQUISITES: CSC 100 or 101 or 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 computer science requirements for a computer science or 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, with a focus on developing web pages using HTML and CSS.

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. Design and develop web pages.

3. Solve problems which can arise in the development of web pages and web sites.

4. Describe strategies which can be used to learn new and/or different web based technologies.

5. Identify a variety of applications available via Application Service Providers.

6. Function effectively on teams to accomplish a common goal.

COURSE CALENDAR

This course meets online with an expected minimum active time in the course of 37.5 lecture contact hours during the semester, including the final exam. Students have significant weekly reading assignments. Students are expected to complete weekly assignments, quizzes, discussion posts and 2 proctored exams in addition to the proctored final exam. Students are expected to prepare for any assignments or quizzes over the course material. Successful completion of these activities requires at a minimum six additional hours of outside of classroom work each week.

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...3

Networking applications and protocols
Basic hardware/software and architectural components
Data communications requirements
Network technologies and topologies
LANS and WANS
Internet security

TOTAL   45

REFERENCES

Freeman, Elizabeth., Head First HTML with CSS and XHTML, 2nd Ed., O'Reilly Media, 2012.

Meyer, E., CSS: The Definitive Guide, 4th Ed., O'Reilly Media, 2017.

Musciano, C. and Kennedy, B., HTML & XHTML: The Definitive Guide, 6th Ed., O'Reilly Media, 2006.