

CIT 150—Internet Technologies (3)

Course Description

This course will provide students with a thorough study of traditional and emerging Internet technologies. Topics include Internet fundamentals, Internet applications, Internet client/server information delivery systems, and Internet client/server computing. Students will have hands-on experience with a number of Internet applications, including rudimentary programming in an Internet environment. Lecture: 3 hours. Prerequisites: none

Course Competencies

Upon successful completion of this course, a student can:

1. Describe Internet fundamentals such as the history of the Internet, terminology, political considerations on the Internet, electronic commerce, and netiquette.
2. Describe Internet technical issues such as network layers, Internet protocols, and connectivity.
3. Use Internet applications for email, file transfer, remote access, and document delivery.
4. Create and publish Internet content.
5. Use existing scripting applications and create original client/server applications to enhance information delivery.

Course Outline

- I. Internet Fundamentals
 - A. Terminology
 - B. Protocols
 - C. Connectivity
 - D. Internet Network Layers
 - E. Electronic Commerce
 - F. History
 - G. Political Considerations
 - H. Netiquette
- II. Internet Applications
 - A. E-Mail
 - B. Telnet
 - C. FTP
 - D. Gopher
 - E. Mailing Lists
 - F. USENET
 - G. Streaming technologies
 - H. Conferencing and Collaboration
 - I. World-Wide-Web
 - J. Other Emerging Internet Applications

III. Internet Client/Server Information Delivery Systems

- A. Information Authoring Tools
- B. Information Publishing Tools

IV. Internet Client/Server Computing

- A. Overview of Client/Server Computing
- B. Prewritten Scripting Language Applications
- C. Design and Implementation of Scripting Language Applications