



BAKER COLLEGE

STUDENT LEARNING OUTCOMES

CS2010 Net Centric Computing
3 Semester Hours

Student Learning Outcomes and Enabling Objectives

1. Understand the protocols and technologies that are used in Net-Centric Computing.
 - a. Describe the HTTP protocol.
 - b. Describe the TCP/IP protocol.
 2. Apply the concept of structured documents using markup languages to the design of web pages.
 - a. Demonstrate the use of HTML to create structured web pages.
 - b. Demonstrate the use of tables in HTML documents.
 - c. Demonstrate the use of forms in HTML documents.
 3. Apply the concept of style sheets to change the visual presentation of structured documents.
 - a. Explain how to format HTML documents.
 - b. Demonstrate the use of CSS to format HTML documents.
 4. Understand the technologies and application of multimedia in web design.
 - a. Describe the most popular graphic formats used on the web.
 - b. Describe the most popular video formats used on the web.
 - c. Describe the most popular audio formats used on the web.
 5. Explore the uses of client-side scripting technology.
 - a. Demonstrate the use of JavaScript to validate forms.
 - b. Describe client-side scripting technology.
 6. Demonstrate the application of server-side scripting technology.
 - a. Demonstrate the use of PHP or Perl to process a form.
 - b. Describe the application of server-side scripting technology.
 7. Analyze the security issues and solutions that apply to Net-Centric Computing.
 - a. Describe the security issues posed by using cookies.
 - b. Describe the security issues posed by storing user credit card data.
-

Big Ideas and Essential Questions

Big Ideas

- Internet and World Wide Web technologies
- Structured documents
- Interactive web-based applications
- Security of web-based applications

Essential Questions

1. How does the HTTP protocol enable Net-Centric Computing?
2. How are markup languages like HTML and XML used to create structured documents?
3. How does separating structure from presentation using CSS contribute to better design?
4. How are multimedia technologies used to create modern designs?
5. How do client-side and server-side scripting combined to make interactive Web-2.0 applications?
6. What are the security issues and liabilities that face companies deploying web applications?

These SLOs are approved for experiential credit.

Effective: Fall 2017