



BAKER COLLEGE
STUDENT LEARNING OUTCOMES

WEB1320 Web Development II
3 Semester Credit Hours

Student Learning Outcomes and Enabling Objectives

1. Create a Web site using PHP open-source scripting language:
 - a. Design a Web site using PHP.
 - b. Develop a Web site using PHP.

2. Program Web applications using PHP open-source scripting language.
 - a. Program various types of PHP variables and data types
 - b. Program various types of PHP forms
 - c. Program various types of PHP arrays and data structures
 - d. Submit PHP forms using JavaScript
 - e. Implement input validation using JavaScript

3. Create a Web site using MySQL open-source database management system.
 - a. Design a Web site using MySQL open-source database management system
 - b. Develop a Web site using MySQL open-source database management system

4. Program Web applications using MySQL open-source database management system
 - a. Create a database using MySQL database management system
 - b. Create different user categories for a MySQL database with corresponding access rights
 - c. Create tables in a MySQL database
 - d. Create and manipulate different types of MySQL database entries
 - e. Conduct various types of searches on a MySQL database

5. Program Web applications using PHP scripting language and MySQL database management system
 - a. Conduct error handling and debugging
 - b. Manage cookies and sessions

- c. Modify database records
- d. Manage object orientated classes
- e. Read and write to text file
- f. Conduct validation
- g. Protect a database against SQL injection
- h. Apply JQuery library in Web Site design and development

Big Ideas and Essential Questions

Big Ideas

- Web Development
- Database Applications
- Art Production

Essential Questions

1. What constitutes a Web site?
2. What do you need to consider when designing a Web site for specific user categories?
3. What are the main types of Web applications?
4. How do art production and programming work together in Web site development?
5. How do all the components fit together to make a quality Web site?
6. How does the type of Web site influence the components used to make it?
7. What are most effective security strategies to protect a Web site from various types of threats and intrusion?

These SLOs are approved for experiential credit.

Effective: Spring 2022