CIS 309 – Web Development II

Course Description

This course provides advanced techniques to design, develop, and test Web-based applications. Topics include using static and dynamic scripting languages to create interactive Websites, manipulating strings, objects and data in arrays, and working with client / server databases. Students will use object-oriented programming techniques as well as using authentication and security in creating the Websites.

Instructional Materials


Course Learning Outcomes

1. Describe the use, architecture, and function of PHP Scripts.
2. Design interactive Websites and applications.
3. Define and design functions and control structures in PHP programs.
4. Define variables, constants, and data types in a PHP environment.
5. Construct and manipulate strings in PHP code.
6. Develop Regular Expressions using PHP.
7. Create fill-in forms and process form data using PHP scripting techniques.
8. Identify and work with disparate file types in the creation of PHP scripts.
10. Develop dynamic database driven Websites with PHP that include reading and writing data to databases.
11. Describe and create processes that manipulate database records using PHP.
12. Develop Websites that maintain state using PHP.
13. Describe the fundamental elements of objects in PHP scripts.
14. Use technology and information resources to research issues in PHP.
15. Write clearly and concisely about advanced Web development topics using proper writing mechanics and technical style conventions.