

COP 3813 Introduction to Internet Computing

Credits: 3 credits

Text book, title, author, and year: “Learning PHP, MySQL, JavaScript & CSS 4th Ed.”, by Robin Nixon (O'Reilly 2014, ISBN 978-1491918661)

Reference materials: N/A

Specific course information:

Catalog description: The purpose of this course is to teach students how to design and develop websites and web-based applications using contemporary tools and standards. This course is project-oriented. Students will develop hands-on knowledge of some of the latest web development tools, languages and frameworks, and use that knowledge to complete several web-based projects.

Specific goals for the course:

- To understand the essential components of Internet-based applications.
- To learn how to create interactive web pages and web-based applications using programming tools.
- To provide a solid conceptual understanding of the main standards and technologies associated with contemporary web applications.
- To enable a hands-on experience by developing web-based projects using some of the latest tools, languages, techniques, and best practices.

Brief list of topics to be covered:

1. Web design and development today
2. Essential tools for web development
3. HTML 5
4. Cascading Style Sheets (CSS)
5. JavaScript
6. jQuery
7. AJAX
8. PHP
9. MySQL
10. Advanced topics
11. Examples and case studies