



CSC 301 Web Programming Techniques

(3 contact hours – 2 lab hour - 3 credits)

Syllabus¹

- **General Information**

Instructor	
Office	
Phone	
Class Time	
Class Location	
Office Hours	
Teaching Assistant	

- **Required Textbook**

Programming the World Wide Web, 8th edition, R. Sebesta, Pearson, 2014.

- **Supplementary Textbook**

Learning PHP, MySQL & JavaScript: With jQuery, CSS & HTML5, 4/E, Robin Nixon, ISBN: 978-1491918661, 1491918667

- **Course Description**

Web programming, languages and techniques. Topics include: client and server side scripting, dynamic websites, database access through the Web, security, and authentication.

- **Course Prerequisites**

CSC 123 & CSC 226. Co-requisite CSC 361.

- **Course Category**

Major elective

¹ This syllabus may change as needed. In such a case, students will be informed accordingly

- **Course Outcomes:**

At the completion of this course, students will be able to:

1. Develop platform-independent sites. [ABET i]
2. Write client-side and server-side scripts for dynamic websites. [ABET c,i]
3. Integrate the Web site with a database. [ABET i]
4. Develop a complete Web application. (Lab) [ABET b,c,i]
5. Secure a Web site, and authenticate/authorize users. [ABET a, e]
6. Work effectively within a team. [ABET d]

- **Tentative Schedule**

Topic	Book Chapter Readings	Week
Fundamentals	1	1
Introduction to HTML/XHTML	2	2
Cascading Style Sheets	3	2
The basics of Java Script	4	3
Java Scripts and HTML Documents	5	4
Dynamic documents with Java Script	6	5
Introduction to XML	7	6
Introduction to PHP	9	7-8
Introduction to Ajax	10	9
Database access through the WEB	13	10-11
Security & Authentication	14	12
Introduction to ASP.NET (time permits)	12	13-14
Project Presentations	-	15

- **Grading Scheme**

Programming Assignments/In Class Exercises	20%
Project	25%
Midterm Exam	20%
Final Exam	35%

