

CS 494 – Web Development

Catalog Description: Techniques and tools for designing developing, publishing, and maintaining dynamic websites on the World Wide Web. Hypertext / HTML, scripting, media integration, emerging web technologies. Web security and issues raised by Internet publishing

Credits: 4

Prerequisites: CS 101 or equivalent. Computer literacy required.

Courses that require this as a prerequisite: None

Structure: Three 50-minute lectures per week

Instructors: Justin Wolford

Course Content:

- Web site planning, template design, user interface functions.
- HTML, Style Sheets
- Forms, templates, cookies
- Image optimization
- PHP operations in the context of HTML
- Design / display of database-driven content
- Scripting
- Accessibility features
- Security and privacy issues
- Peer reviews

Learning Resources:

One of the following:

- Elizabeth Castro, *HTML, XHTML, and CSS, Sixth Edition: Visual QuickStart Guide*, Peachpit Press
- Molly E. Holzschlag, *250 HTML and Web Design Secrets*, Wiley Publishing.
- Jason Cranford Teague, *DHTML and CSS For the World Wide Web*, 3rd Ed, Visual Quickstart Guide, Peachpit Press.

Measurable Student Learning Outcomes:

At the completion of the course, students will be able to...

1. **Understand** and discuss the language of the Internet and web page authoring (ABET Outcomes: A, B)
2. **Discuss** best practices in web site security, user interface design, content management, and new issues (ABET Outcomes: A, B, E)
3. **Envision, design, prototype, produce, test, and promote** a web site that uses
 - Compliant HTML and CSS
 - Dynamic navigation

- Embedded media
- Database-driven structure and content
- Secure forms with dynamic user interaction
- Content Management Systems (CMS) such as blogs, forums, wikis, and galleries
(ABET Outcomes: A, B, C, I, K)

Students with Disabilities:

Accommodations are collaborative efforts between students, faculty and Disability Access Services (DAS). Students with accommodations approved through DAS are responsible for contacting the faculty member in charge of the course prior to or during the first week of the term to discuss accommodations. Students who believe they are eligible for accommodations but who have not yet obtained approval through DAS should contact DAS immediately at 737-4098.

Link to Statement of Expectations for Student Conduct, i.e., cheating policies
<http://oregonstate.edu/admin/stucon/achon.htm>