CS 290 – Web Development

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

Credits: 4   Terms Offered: Every Term

Prerequisites: CS 162 or CS 165

Courses that require this as a prerequisite: CS 340

Structure: eCampus: This course combines approximately 30 hours of online instruction, 60 hours of homework/programming assignments, and 15 hours of online quizzes and exams.

On campus: Three 50-minute lectures per week
Note: Due to extensive programming assignments, this course has an implied, non-scheduled lab. The lab takes place in an EECS computer lab at various times, and is not part of the official course schedule. TAs are available to help the students with programming assignments at times announced in the syllabus.

Instructors: Justin Wolford, Chris Scaffidi

Course Content:
- Web site planning, template design, user interface functions.
- Forms, templates, cookies
- Image optimization
- Design / display of database-driven content
- Scripting
- Accessibility features
- Security and privacy issues
- Peer reviews

Learning Resources:
One of the following:

Measurable Student Learning Outcomes:
At the completion of the course, students will be able to…

- **Design** and create a moderately complex static web site that conforms to current standards.
- **Implement** custom user interface behavior using client-side scripting.
- **Implement** asynchronous calls for sending data between the client and server.
- **Implement** dynamically-generated websites using server-side scripting.
- **Use** basic database commands to create, store and retrieve data in conjunction with a dynamic website.
- **Describe** how to apply usability, scalability and security concepts in the context of web development.

**Evaluation of Student Learning:**

- homework (approx. 15%)
- web design/development projects (approx. 50%)
- exams (approx. 35%)

**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/studentconduct/offenses-0](http://oregonstate.edu/studentconduct/offenses-0)

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