

**Clackamas Community College**  
Online Course/Outline Submission System

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**Section #1 General Course Information**

**Department:**Business & Computer Science: Computer Science

**Submitter**

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**Course Prefix and Number:**CS - 297W

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**# Credits:**3

**Contact hours**

Lecture (# of hours): 33

Lec/lab (# of hours):

Lab (# of hours):

Total course hours: 33

For each credit, the student will be expected to spend, on average, 3 hours per week in combination of in-class and out-of-class activity.

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**Course Title:**Web Capstone

**Course Description:**

The capstone course for the web development AAS programs. Provides the opportunity to function in a production design environment, work cooperatively with students from other focus areas, and research emerging website technologies. Emphasis will be placed on client interaction, project teams, and accountability, as well as the development of a professional portfolio web site or completion of a research project in an emerging web-related technology.

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**Type of Course:**Lower Division Collegiate

Is this class challengeable?

**Yes**

Can this course be repeated for credit in a degree?

**No**

Is general education certification being sought at this time?

**No**

Does this course map to any general education outcome(s)?

**Yes**

**Check which General Education requirement:**

**Writing**

**Oral Communication**

Is this course part of an AAS or related certificate of completion?

**Yes**

**Name of degree(s) and/or certificate(s):**Computer Science AAS & Certificate

Are there prerequisites to this course?

**Yes**

**Pre-reqs:**Pass CS-195 & CS-133S; or pass CS-195 & CS-135I; or instructor approval

**Have you consulted with the appropriate chair if the pre-req is in another program?**

**No**

Are there corequisites to this course?

**No**

Are there any requirements or recommendations for students taken this course?

**No**

Are there similar courses existing in other programs or disciplines at CCC?

**No**

Will this class use library resources?

**No**

Is there any other potential impact on another department?

**No**

Does this course belong on the Related Instruction list?

**No**

**GRADING METHOD:**

A-F or Pass/No Pass

**Audit:Yes**

When do you plan to offer this course?

**✓ Spring**

Is this course equivalent to another?

If yes, they must have the same description and outcomes.

**No**

Will this course appear in the college catalog?

**Yes**

Will this course appear in the schedule?

**Yes****Student Learning Outcomes:**

Upon successful completion of this course, students should be able to:

1. perform a client needs analysis to determine the scope and technologies needed in a website,
  2. develop and maintain a project timeline,
  3. implement web design and web programming skills in a production environment,
  4. discuss and implement effective design practices appropriate for a client's needs,
  5. research existing and emerging web technologies in the context of a client's needs,
  6. identify best learning practices for collecting new skillsets and present information in an effective, condensed format;
  7. interact effectively with other web professionals on a large, client-driven topic.
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**AAOT/ASOT GENERAL EDUCATION OUTCOMES  
COURSE OUTLINE MAPPING CHART**

**Mark outcomes addressed by the course:**

- Mark "C" if this course completely addresses the outcome. Students who successfully complete this course are likely to have attained this learning outcome.
- Mark "S" if this course substantially addresses the outcome. More than one course is required for the outcome to be completely addressed. Students who successfully complete all of the required courses are likely to have attained this learning outcome.
- Mark "P" if this course partially addresses the outcome. Students will have been exposed to the outcome as part of the class, but the class is not a primary means for attaining the outcome and assessment for general education purposes may not be necessary.

***As a result of completing the AAOT/ASOT general education requirements, students will be able to:***

**WR: Writing Outcomes**

- P** 1. Read actively, think critically, and write purposefully and capably for academic and, in some cases, professional audiences.
- P** 2. Locate, evaluate, and ethically utilize information to communicate effectively.
- P** 3. Demonstrate appropriate reasoning in response to complex issues.

**SP: Speech/Oral Communication Outcomes**

- P** 1. Engage in ethical communication processes that accomplish goals.
- P** 2. Respond to the needs of diverse audiences and contexts.
- P** 3. Build and manage relationships.

**MA: Mathematics Outcomes:**

1. Use appropriate mathematics to solve problems.
2. Recognize which mathematical concepts are applicable to a scenario, apply appropriate mathematics and technology in its analysis, and then accurately interpret, validate, and communicate the results.

**AL: Arts and Letters Outcomes**

1. Interpret and engage in the Arts & Letters, making use of the creative process to enrich the quality of life.
2. Critically analyze values and ethics within range of human experience and expression to engage more fully in local and global issues.

**SS: Social Science Outcomes**

1. Apply analytical skills to social phenomena in order to understand human behavior.
2. Apply knowledge and experience to foster personal growth and better appreciate the diverse social world in which we live.

**SC: Science or Computer Science Outcomes**

1. Gather, comprehend, and communicate scientific and technical information in order to explore ideas, models, and solutions and generate further questions.
2. Apply scientific and technical modes of inquiry, individually, and collaboratively, to critically examine the influence of scientific and technical knowledge on human society and the environment.

3. Assess the strengths and weaknesses of scientific studies and critically examine the influence of scientific and technical knowledge on human society and the environment.

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**Outcomes Assessment Strategies:**

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**Major Topic Outline:**

1. Project proposals.
  - a. Learning objectives.
  - b. Creating a timeline.
  - c. Communication models & needs analysis.
2. Pricing and contracts.
  - a. Business models.
  - b. Pricing models.
  - c. Market surveys.
  - d. Contract structures.
    - d1. Protection.
    - d2. Guarantees.
    - d3. Legalities.
3. Completion of projects in accordance with project timelines.
  - a. Will vary based on student proposals.
4. Current topics.
  - a. Students will have a chance to select 4 topics to investigate from current and emerging web technologies. Sample topics may include.
    - a1. Advanced HTML 5 and CSS 3 applications.
    - a2. Programming the HTML 5 canvas with JavaScript.
    - a3. Working with Content Management Systems (Joomla, WordPress, Xoops, etc.).
    - a4. Working with shopping carts (PayPal, ZenCart, etc.).
    - a5. Exploration of additional server-side languages/technologies (ASP.NET, ColdFusion, Java Server Pages, etc.).
    - a6. Mobile web development/app development.
5. Student presentations and evaluations.
  - a. Present a finished product.
    - a1. Material preparations.
    - a2. File preparations.
  - b. User training.

**Does the content of this class relate to job skills in any of the following areas:**

- |                                      |           |
|--------------------------------------|-----------|
| 1. Increased energy efficiency       | <b>No</b> |
| 2. Produce renewable energy          | <b>No</b> |
| 3. Prevent environmental degradation | <b>No</b> |
| 4. Clean up natural environment      | <b>No</b> |
| 5. Supports green services           | <b>No</b> |

Percent of course:0%

**Section #2 Course Transferability**

Concern over students taking many courses that do not have a high transfer value has led to increasing attention to the transferability of LDC courses. The state currently requires us to certify that at least one OUS school will accept a new LDC course in transfer. Faculty should communicate with colleagues at one or more OUS schools to ascertain how the course will transfer by answering these questions.

1. Is there an equivalent lower division course at the University?
2. Will a department accept the course for its major or minor requirements?
3. Will the course be accepted as part of the University's distribution requirements?

If a course transfers as an elective only, it may still be accepted or approved as an LDC course, depending on the nature of the course, though it will likely not be eligible for Gen Ed status.

**Which OUS schools will the course transfer to? (Check all that apply)**

**Identify comparable course(s) at OUS school(s)**

**How does it transfer? (Check all that apply)**

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**Provide evidence of transferability: (minimum one, more preferred)**

**First term to be offered:**

**Next available term after approval**

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