

WEB DESIGN, CERTIFICATE

Program Code: CC.WEBDESIGN2

The Web Design program should prepare students for technical positions related to web and graphic design. This multidisciplinary program incorporates classes from computer science and art. Course work includes a strong emphasis on computer graphics and design, data communications theory, operating systems, and web design with a focus on current industry standards. Cooperative Work Experience (CWE) is supervised real-world experience that supplements the academic classroom environment.

For information contact Debra Carino, 503-594-3170 or dcarino@clackamas.edu.

Outcomes

Related Instruction Outcomes

Computation

- 1 course - MTH-065 Algebra II or higher
- Use appropriate mathematics to solve problems.

Communication

- 1 course - WR-121 English Composition
- Read actively, think critically, and write purposefully and capably for professional audiences.

Human Relations

- 3-4 credits - See [Related Instruction](#) for course list
- Engage in ethical communication processes that accomplish goals.

Program Outcomes

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

- apply knowledge of current graphic design software to capture or create images for use in client websites;
- use HTML, CSS, JavaScript, and current web editing technologies, to create standards-complaint, professional websites;
- leverage existing component tools to create e-commerce applications that solve real-world problems,
- perform client needs analyses to create web applications that solve real-world problems;
- articulate and justify technical solutions to an audience through oral, written, and graphical communication;
- communicate the importance of professional and ethical responsibilities and be aware of codes of conduct and other sources of guidance for professionally ethical decision making.

Requirements

| Course | Title | Credits |
|------------------|-----------------------------------|-----------|
| Fall Term | | |
| ART-225 | Computer Graphics I | 3 |
| CS-125H | HTML & Web Site Design | 3 |
| CS-140 | Introduction to Operating Systems | 4 |
| CS-160 | Computer Science Orientation | 4 |
| Credits | | 14 |

| Course | Title | Credits |
|------------------------------------|--|--------------|
| Winter Term | | |
| CS-133S | Introduction to JavaScript & Server-Side Scripting | 3 |
| CS-151 or CS-275 | Networking I or Database Design | 3-4 |
| CS-181 | CMS Web Development | 3 |
| Electives (p. 1) | | 3 |
| Credits | | 12-13 |
| Spring Term | | |
| ART-226 or CS-240L | Computer Graphics II or Linux Administration I | 3-4 |
| CS-135I | Advanced Web Design With Dreamweaver | 3 |
| CS-234J | jQuery Web Development | 3 |
| CS-234P | PHP/MySQL Web Development | 3 |
| Credits | | 12-13 |
| Summer Term | | |
| CS-280 | Computer Science/CWE | 3 |
| Select one of the following: | | 4-5 |
| MTH-065 | Algebra II Higher Level Math | |
| WR-121 | English Composition | 4 |
| Human Relations requirement | | 3-4 |
| Credits | | 14-16 |
| Total Credits | | 52-56 |

Electives

Any **ART**, **BA**, **CS**, or **DMC** course not included in the program.

Careers

Career opportunities include:

- web designer
- web production staff
- graphic designer