

WEB DESIGN & DEVELOPMENT, AAS

Program Code: AAS.WEBDESIGNDEV

The Web Design & Development program prepares students for technical positions related to web programming and design. This multidisciplinary program incorporates classes from computer science, art, English, and business. Course work includes computer graphics and design, web development with a focus on current industry standards, web server administration, data-driven web programming, digital media and animation, and technical writing. Cooperative Work Experience (CWE) is supervised real-world employment that supplements the academic classroom environment.

Oregon Tech Transfer Courses

The Business Department, in cooperation with Oregon Tech, offers a number of transferable classes into Oregon Tech's Bachelor of Applied Technology and Management degree program. Students planning to continue their studies at a four-year college should consult an advisor to obtain the most recent transfer information.

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.

Physical Education/Health/Safety/First Aid

- 1 credit - See [Related Instruction](#) for course list
- Use effective life skills to improve and maintain mental and physical well-being.

Program Outcomes

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

- demonstrate all the program learning outcomes of the [Web Design Certificate](#);
- create sophisticated custom logos, graphics, and animations for a wide variety of client applications;
- describe the significance of relational databases to web development and apply these database concepts along with server-side scripting technologies towards the creation of data-driven web applications;

- interview and communicate with clients to create web applications that match client vision, personality, and needs;
- describe and complete the steps to begin a consulting business, including initial market research, marketing plans, and budgeting;
- exhibit good teamwork skills and serve as effective members of project teams.

Requirements

Course	Title	Credits
First Year		
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
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. 2)		3
Credits		12-13
Spring Term		
ART-226	Computer Graphics II	3
CS-135I	Advanced Web Design With Dreamweaver	3
CS-234J	jQuery Web Development	3
CS-234P	PHP/MySQL Web Development	3
Credits		12
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
Second Year		
Fall Term		
CS-135DB	Microsoft Access	3
CS-240L	Linux Administration I	4
CS-280	Computer Science/CWE	3
WR-122	English Composition	4
Credits		14
Winter Term		
CS-151 or CS-275	Networking I or Database Design	4-3
CS-240W	Windows Desktop Administration	3
CS-280	Computer Science/CWE	3
WR-227	Technical Report Writing	4
PE/Health/Safety/First Aid requirement		1
Credits		15-14

Course	Title	Credits
Spring Term		
ART-227	Computer Graphics III	3
BA-103	Business Strategies for Computer Consultants	3
CS-289	Web Server Administration	4
CS-297W	Website Capstone	3
Credits		13
Total Credits		94-96

Electives

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

Careers

Career opportunities include:

- web designer/consultant
- webmaster
- web programmer
- web systems specialist
- graphic designer