Web Development - AS (Associate GE Track)

+If you have completed coursework at another college and/or are starting in a semester other than a Fall term, please follow up with the Counseling Department to determine if this sequence is appropriate for your academic and career goals.

Program Description:

The goal of the A.S. degree in Web Development is to provide students with the broad educational background required to transfer to a four-year school in a related discipline and the opportunity to acquire training necessary to meet the demand for skilled personnel to develop and maintain websites for private corporations, non-profit or government organizations, and individuals. The need for individuals who possess web development skills has grown exponentially in recent years due to convergence of technology on the Internet and the prominent role web sites play in the daily activities of businesses and other organizations.

The web curriculum is a vocational program that reflects the multi-faceted nature of the competencies required to become a professional web developer. The program is, therefore, interdisciplinary and draws from courses offered in both the Computer Applications and Web Technologies (CAWT) and Computer Science Departments. Cooperative Work Experience Education is also an essential component included in the sequence of required classes.

The curriculum is designed to provide students with a strong and balanced foundation in aspects of both front and back-end web development. Students will develop proficiency with markup languages, cascading style sheets, web authoring software, database connectivity, image and search engine optimization, client- and server-side programming, e-commerce considerations, and the entire web life-cycle development process.

Program SLO:

Students will be able to demonstrate proficiency in the core knowledge and skills needed to develop and implement dynamic, interactive websites.

Important Transfer Information: *The sequence listed below, may not meet all your transfer admissions requirements. Connect with a counselor to develop an individual student education plan through the Counseling Department @ https://www.canyons.edu/counseling or (661) 362-3288/(661) 362-3811.*

Major courses are sequenced and BOLDED based on recommendations by Computer Applications and Web Technologies Department.

First Semester (1.5-14.5 units minimum) FA = Fall; WI = Winter; SP = Spring; SU = Summer

Course	Title	Units	Major and GE Courses
CAWT 074	**Intro to Photoshop (FA, SP)**	**1.5**	**Major**
CAWT 170	**Web Development I (FA, SP)**	**3**	**Major**
CMPSCI 190	**Web Programming: Javascript (FA, SP, SU)**	**3**	**Major Course**
ENGLISH 101/101H	English Composition (FA, WI, SP, SU)	4	Area Di
Math Competency	Choose one course from the AA GE Area 3 (FA, WI, SP, SU)	3-5	Area 3 and Dii
	Term Total:	14.5 – 16.5	

Check the Honors website for most recent course offerings. Must be enrolled in the Honors program to take courses, see below.

Intersession I (15.5-17.5 units minimum)

Course	Title	Units	Major and GE Courses
Group 1 Course	**Choose one class from Group 1 (FA, WI, SP, SU) – *see table below***	**3**	**Major Elective**
	Term Total:	3	

Second Semester (18.5-32.5 units minimum)

Course	Title	Units	Major and GE Courses
CAWT 160	**Microsoft Access I (WI,SP)**	**3**	**Major Course**
CAWT 171	**Web Development II (SP)**	**3**	**Major Course**
COMPSCI 192	**PHP Programming (FA, SP)**	**3**	**Major Course**
*Social Science Course	Choose one course from the AA GE Area B (FA, WI, SP, SU)	3	Area B and Diversity
Natural Science	Choose once course from the AA GE Area A (FA, WI, SP, SU)	3	Area A
	Term Total:	**15**	

*Consider taking a social science general education course GE Area B with an (*) indication on the <u>Associate Degree Requirements Checklist</u>. Courses with an (*) will also meet the GE Diversity Requirement. Refer to the Associate Degree Checklist for details.**

Intersession II (33.5-35.5 units minimum)

Course	Title	Units	Major and GE Courses
CAWT 174	**Web Prototyping and Images (SU)**	**3**	**Major Course**
	Term Total:	**3**	

Third Semester (36.5-49 units minimum)

Course	Title	Units	Major and GE Courses
CAWT 173	**Web Development: Dreamweaver (FA)**	**3**	**Major Course**
CAWT 076	**Intro to WordPress (FA, SP)**	**1.5**	**Major Course**
Group 1 Course	**Choose one class from Group 1 (FA, WI, SP, SU) – *see table below***	**3**	**Major Elective**
American Institutions – Choose Option I or II	Complete first course in chosen option – (note: must take both classes within one option) (FA, WI, SP, SU)- *see table below*	3	American Institutions
Arts Course	Choose one course from the AA GE Area C (FA, WI, SP, SU)	3	Area C
	Term Total:	**13.5**	

Fourth Semester (50-61 units minimum)

Course	Title	Units	Major and GE Courses
Group 1 Course	**Choose one class from Group 1 (FA, WI, SP, SU) – *see table below***	**3**	**Major Elective**
Group 1 Course *Department Recommends Internship Experience: *CWE 186CAWT or *CWE 188CAWT*	**Choose one class from Group 1 (FA, WI, SP, SU) – *see table below*- Department HIGHLY Recommends Cooperative Work Experience Education (FA WI, SP, SU)**	**1-4**	**Major Elective**
American Institutions	Complete second course in chosen option – (note: must take both classes within one option) - *see table below*	3	American Institutions
PE/Wellness	Take two PE or Dance activity courses (excluding DANCE 100) or Health Science 100, 149, 150, or 243 (FA, WI, SP, SU)	2-3	Area F
Diversity – if not yet taken	Choose any course from the AA GE Area 4 Diversity (FA, WI, SP, SU)	3	Diversity Area 4
	Term Total:	**12-15**	

*Visit the <u>Internship Website</u> to learn more about internship opportunities and to register with JobSpeaker, the job and internship database.**

Total Units: 61+

Group 1 Courses: Select ten units from the following:

CAWT 082	Adobe Acrobat – Brief (SU)	1.5
CAWT 115	Business English (WI, SU)	3
CAWT 116	Business Communication (FA, WI, SP, SU)	3
CAWT 161	Microsoft Access II (SU)	3
CMPNET 154	CCA R&S: Introduction to Networks	3.5
CMPSCI 111	Introduction to Algorithms and Programming/Java (FA, SP, SU)	3
CMPSCI 111L	Introduction to Algorithms and Programming/Java Lab (FA, SP, SU)	1
CMPSCI 235	C Programming (FA)	3
CMPSCI 236	C++ Object Oriented Programming (FA, WI, SP, SU) *CMPSCI 235 is a pre-requisite*	3
GMD 101	Introduction to Visual Communication (FA, SP)	3
GMD 144	Graphic Design I (FA, SP)	3
GMD 145	Type and Typography (FA, SP)	3
GMD 177	Web Page Design I (FA, SP)	3
BUS 190	Principles of Electronic Commerce (FA, SP)	3
CWE 186CAWT	Cooperative Work Experience Education (Unpaid) (FA, WI, SP, SU)	1-4
CWE 188CAWT	Cooperative Work Experience Education (Paid) (FA, WI, SP, SU)	1-4

American Institutions Requirement – Select one of the options below and complete a total of 6 units

Course Number	Title
Option I	One course from the following: Economics 170/170H, History 111/111H, History 112/112H, History 120/120H, or History 130 **AND** Political Science 150/150H (FA, WI, SP, SU)
Option II	History 111/111H **AND** History 112/112H (FA, WI, SP, SU)

Counseling Resources

Computer Applications and Web Technologies Department:
https://www.canyons.edu/academics/computerapplications/index.php
Counseling Department: https://www.canyons.edu/studentservices/counseling/
Internship Program: https://www.canyons.edu/studentservices/internships/index.php
Associate General Education Guide:
https://www.canyons.edu/studentservices/counseling/degrees/generaled.php
COC Honors Program: https://www.canyons.edu/academics/honors/index.php
Campus Alliances: https://www.canyons.edu/administration/ie2/equity/alliances.php
Petition for Associate Degree: Check the student calendar for term-specific submission deadlines. Summer graduation associate degree petitions are due by April 1st for your name to appear in the spring commencement pamphlet. The petition form must be reviewed with a counselor and may be found here:
https://www.canyons.edu/_resources/documents/studentservices/admissions/Petition_for_Associate_Degree_an d_Ce rtificate_of_Achievement.pdf

Career Resources

Computer Web Development & Design Career Tree:
https://www.canyons.edu/academics/computerapplications/careertree/careertree-cawt-web-development.php
California Career Zone: https://www.cacareerzone.org/
O*Net Online: https://www.onetonline.org/
Bureau of Labor and Statistics: www.bls.gov
Professional Associations:
Web Professionals: https://webprofessionals.org/
HTML Writers Guild: http://hwg.org/