

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 BOLDDED 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 [Associate Degree Requirements Checklist](#). Courses with an (*) will also meet the GE Diversity Requirement. Refer to the Associate Degree Checklist for details.

Interession 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) – <i>see table below</i> | 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)– <i>see table below</i> | 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) – <i>see table below</i> | 3 | Major Elective |
| Group 1 Course <i>Department Recommends Internship Experience:</i> *CWE 186CAWT or *CWE 188CAWT | Choose one class from Group 1 (FA, WI, SP, SU) – <i>see table below- Department HIGHLY Recommends Cooperative Work Experience Education (FA WI, SP, SU)</i> | 1-4 | Major Elective |
| American Institutions | Complete second course in chosen option – (note: must take both classes within one option) - <i>see table below</i> | 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 [Internship Website](#) 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) <i>CMPSCI 235 is a pre-requisite</i> | 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/student services/counseling/>

Internship Program: <https://www.canyons.edu/student services/internships/index.php>

Associate General Education Guide:

<https://www.canyons.edu/student services/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/student services/admissions/Petition_for_Associate_Degree_and_Certificate_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/>