



# Web Developer A.S. Degree

Web Developers are proficient at creating website structure and interactivity. The Web Developer degree requires students to design, code, and modify websites from layout to function in accordance with a client's specifications. Students will work with a variety of tools, environments, and applications to learn and practice website programming, scripting languages, and interacting with databases.

**Total Units: 67-79**

## First Year

### Semester 1

**11-15 Units**

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED*	GE AREA
<b>CISW 300</b> <sup>Z</sup> Web Publishing	3	Advisory: CISC 305	F(O,P), S(O,P), Su(O)	
<b>CISC 323</b> Linux Operating System	1		F(O), S(O)	
<b>CRC Area II(a)-Writing Competency</b> <sup>Z</sup>	3	Recommend meeting with a counselor	F, S, Su	CRC Area II(a)
<b>CRC Area II(b)-Math Competency</b> <sup>Z</sup>	3-4	Recommend meeting with a counselor	F, S, Su	CRC Area II(b)
<b>CRC Area III(a)-Physical Edu Activity</b> <sup>Z</sup>	1		F, S, Su	CRC Area III(a)
<b>Elective</b> <sup>1</sup>	0-3		F, S, Su	

<sup>Z</sup> At least one section of this course is offered with free textbooks and is labeled as zero textbook costs (ZTC). If it is a GE area class or elective, there may be several ZTC offerings to fulfill the GE requirement. Use the Free Textbook filter to find these courses. Learn more on the [ZTC page of the college website](#).

<sup>1</sup> Suggestion-CISP 300 Algorithm Design/Problem Solving (3 units); Advisory: MATH 335; F, S, Su; CRC Area II(b); Meets requirements for Certificate in CIS-Web Programming. Units needed to total 60 units for graduation. Refer to [Course Number](#) for the appropriate course level necessary for the degree.

### Semester 2

**15-16 Units**

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED*	GE AREA
<b>CISW 304</b> <sup>Z</sup> Cascading Style Sheets	2	CISW 300	F(O), Su(O)	
<b>CISW 400</b> <sup>Z</sup> Client-side Web Scripting	4	CISW 300	F(O), S(O), Su(O)	

## Career

### Options/Outlook:

Web developers design, create and modify websites. Analyze user needs to implement Web site content, graphics, performance, and capacity. May integrate Web sites with other computer applications. May convert written, graphic, audio, and video components to compatible Web formats by using software designed to facilitate the creation of Web and multimedia content. **Career opportunities require more than an associate degree.**

### A sample of reported job titles:

Designer, Technology Applications Engineer, Web Architect, Web Design Specialist, Web Designer, Web Developer, Web Development Director, Web Development Instructor, Webmaster

### Projected job openings in California (2020-2030):

3,070

### Projected growth in California (2020-2030):

25% growth

### Median Salary in California with

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED*	GE AREA
<b>CISW 440</b> <sup>Z</sup> XML: Introduction to Extensible Markup Language	2	CISW 300; Advisory: CISA 320 or CISP 350	Su(P)	
<b>CISC 324</b> <sup>1</sup> Intermediate Linux Operating System	1	CISC 323	F(O), S(O), Su(O)	
<b>CISP 353</b> Application Development in a Client Server Environment	3	Advisory: CISP 352	S(O)	
<b>CRC Area V(a)-American Institutions</b> <sup>Z</sup>	3		F, S, Su	CRC Area V(a)
<b>Elective</b> <sup>2</sup>	0-1		F, S, Su	

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<sup>1</sup> Suggested from List A.

<sup>2</sup> Suggestion CISA 320 Intro to Database Management (1 unit); Advisory: CISC 302 or 310; F(O), S(O), Su(O); Meets requirements for Certificate in CIS-Web Programming. Units needed to total 60 units for graduation. Refer to [Course Number](#) for the appropriate course level necessary for the degree.

## Year 2

### Semester 3

7-14 Units

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED*	GE AREA
<b>CISW 308</b> <sup>Z</sup> Mobile Web Development	2	CISW 300; Advisory CISW 304	F(O), Su(O)	
<b>CISW 402</b> <sup>Z</sup> Intermediate JavaScript	2	CISW 400; Advisory: CISW 410	F(O), S(O)	
<b>CRC Area III(b)-Life Development Skills</b> <sup>Z</sup>	3		F, S, Su	CRC Area III(b)
<b>Elective</b> <sup>1</sup>	0-4		F, S, Su	
<b>Elective</b> <sup>2</sup>	0-3		F, S, Su	

<sup>Z</sup> At least one section of this course is offered with free textbooks and is labeled as zero textbook costs (ZTC). If it is a GE area class or elective, there may be several ZTC offerings to fulfill the GE requirement. Use the Free Textbook filter to find these courses. Learn more on the [ZTC page of the college website](#).

<sup>1</sup> Suggestion-CISP 360 Intro to Structured Programming (4 units); Pre-req: CISP 300 or MATH 400; F(P), S(P); Meets requirements for Certificate in CIS-Web Programming. Units needed to total 60 units for graduation. Refer to [Course Number](#) for the appropriate course level necessary for the

## advanced degree (2021):

\$84,860/yr

### Source:

<https://www.onetonline.org/link/summary/15-1134.00>

### Transfer notes:

Please meet with a counselor for specific transfer course evaluation or transferring to a specific 4-year institution.

## General Education (GE):

Non-specified GE courses identified by CRC Area, CSU Area or IGETC Area without pre- or co-requisite can be taken at any semester.

### Honors option:

The CRC Honors Program is designed specifically for academically accomplished students and for students with the potential for high achievement. Students who complete 15 units or more in honors-designated courses will earn special recognition as an Honors Scholar, a distinction that may entitle the student to guaranteed transfer and scholarship opportunities at select transfer colleges and universities.

### About this map:

This program map represents one possible pathway to complete the program. Please see a counselor to create an education plan that is customized to meet your needs. This map is not a guarantee of course availability or financial aid applicability.

## With the suggested electives, this map meets the requirements for

degree.

<sup>2</sup> Suggestion BUS 100 English for the Professional (3 units); ENGWR 110 & ENGWR 51 or ESLR 320 & ESLW 320; Advisory: BUSTEC 302 & 303; Meets requirements for Certificates in CIS-Web Programming and CIS-Web Publishing. Units needed to total 60 units for graduation. Refer to [Course Number](#) for the appropriate course level necessary for the degree.

## Semester 4

20 Units

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED*	GE AREA
<b>CISW 350</b> Imaging for the Web	1	Advisory: CISC 306 & CISW 300	S(O)	CRC Area II(b)
<b>CISW 321</b> Web Site Development using Dreamweaver	3	Advisory: CISC 305	S(O,P)	
<b>CISW 410</b> Database-Driven Web Applications	4	CISW 300; Advisory: CISP 300 or CISW 310	S(O,P)	
<b>CRC Area IV-Natural Sciences</b> <sup>Z</sup>	3		F, S, Su	CRC Area IV
<b>CRC Area I- Humanities</b> <sup>1</sup> <sup>Z</sup>	3		F, S, Su	CRC Area I
<b>CRC Area VI-Ethnic/ Multicultural Studies</b> <sup>Z</sup>	3		F, S, Su	CRC Area VI
<b>CRC Area V(b)-Social &amp; Behavioral Sciences</b> <sup>Z</sup>	3		F, S, Su	CRC Area V(b)

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<sup>^</sup>You must have passed the prerequisite course(s) with a "C" or better; Corequisite must be taken during the same semester; Advisory means it is recommended but not required to enroll in the course.

\*(O) = Online available, (P) = Partially online

<sup>1</sup> Suggestion-ART 301 Digital Drawing & Composition (3 units); F, S, Su **OR** ARTNM 324 Digital Design (3 units); Advisory: ART 300, 320, CISC 302.JOUR 330; both meet requirements for Certificate in CIS Web Programming and CIS Web Publishing.

## List A-a minimum of 5 units from the following:

14  
Units

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED*	GE AREA
<b>CISC 324</b> Intermediate Linux Operating System	1	CISC 323	F(O), S(O), Su(O)	
<b>CISW 308</b> <sup>Z</sup> Mobile Web Development	2	CISW 400; Advisory: CISW 410	F(O), S(O)	
<b>CISW 310</b> Advanced Web Publishing	4	CISW 300	Check Class Schedule for offering	

The Certificate of Proficiency in CIS-Web Publishing and

The Certificate in Achievement in CIS-Web Programming.

## Zero Textbook Costs (ZTC):

The Zero Textbook Costs designation and logo are added to any course that provides free access to all required instructional materials. These are typically shared with students through Canvas. Courses that are designated as ZTC may still require students to purchase supplemental materials such as lab coats, a calculator, art supplies, etc. See full definitions and searching tips on the [Zero Textbook Costs page](#) of the college website.

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
<b>CISW 355</b> Web Imaging Projects	2	CISW 350	S(O)	
<b>CISW 402</b> <sup>Z</sup> Intermediate JavaScript	2	CISW 400; Advisory: CISW 410	F(O), S(O)	
<b>CISP 350</b> Database Programming	3	CISA 320 & 3 units of any programming language	F(O)	

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Counselor Contact: Chris Torres or Ea Edwards | Faculty Contact: Wendell Fishman