

WEB DEVELOPMENT

Curriculum Guide for Academic Year 2021-2022

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Students planning to **transfer** to a four-year college or university should refer to the ASSIST web site at <u>www.assist.org</u> and **consult a counselor** before beginning a program of study. Please call 562-938-4561 (LAC), or (562) 938-3920 (PCC) to schedule an appointment with a counselor. Students may also wish to visit the Transfer Center on either campus.

		Program of study leading				
		Associate in Science (A.S.) E	<u>Degree</u>			
					In	Completed
-	DESIGN COURSES		UNI		Progress	Grade
	OSA 50	Intro to IT Concepts and Applications	4			
	COSP 7 COSP 38	Programming Concepts and Methodologies Database Concepts	4			
	OSP 30 OSW 10	Beginning Website Development	4			
-	OSW 10	Front End Website Development	4			
-	OSW 20	Web Development with PHP/MySQL	4			
-	OSW 200	Introduction to JavaScript and jQuery	4			
-	OSW 240	Intro to Content Management Systems	3			
Ū			TOTAL 31			
For gra	duation with an Associa	ate in Science (A.S.) Degree with a major in W		nt∙ ∟		
1.		nimum of 60 units, distributed as follows:	es Developine			
2. 3. 4. 5. 6.	work applied to the de above with a grade of Residence for the De Long Beach City Colle Residence for the Fi field of concentration i College. Credit earne General Education a Proficiency requireme view it online at http://c Complete and submit	n an overall grade point average (GPA) of 2.0 egree, no matter where completed. For this find f "C" or better, or "P" if course is graded on a P/ egree: Complete at least 12 semester units of ege in order for the college to grant an Associate ield of Concentration: Complete fifty percent (in residence; this means at least 15.5 units of the ed by exam, where applicable, may be included. and Proficiency Requirements: Complete the nots*, otherwise known as "Plan A". For Plan A	Units 0 ("C" average) eld of concent /NP basis. the required 60 of Arts and/or a (50%) or more of he 31 must be of he required A./ A requirements, and Records offi	ration seminass of the comp A./A.S refer	n, complete ester units in ociate of Sci unit require leted at Lor G. General E to the gene iring your fin	e each course n residence at ience Degree. ements for this ng Beach City Education and eral catalog or al semester of
year. 7	. Refer to the Schedu deadline for each sem equirements for general This catalog year may be	ule of Classes (http://schedule.lbcc.edu) and clie	ck the "Importan tion (major) neo to the present,	nt Dat ed to	tes" link to v be from the	view the actual same catalog

WEB DEVELOPMENT 2021-2022 AS = 2128; C-ACH = 3128; C-ACC = 4129; C-ACC = 4131; C-ACC = 4119; Page 1 of 3 Published: 06/17/21

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Program of study leading to: Certificate of Achievement in Web Development

<u>REQUIRED COURSES</u>—Complete the 31 units of required courses as listed in the Associate Degree requirements box on the first page.

REQUIRED COURSES

TOTAL UNITS

In Progress Completed

ITS 31

For graduation with a Web Development Certificate of Achievement:

- 1. Complete each of the **REQUIRED COURSES** listed above with a **minimum grade of "C"**, or better, or "P" if course is graded on a P/NP basis.
- Complete fifty percent (50%) or more of the unit requirements for this field of concentration in residence; this means at least 15.5 units of the required 31 must be completed at Long Beach City College. Credit earned by exam, where applicable, may be included.
- Complete and submit the certificate application form to the Admissions and Records office during your final semester of course work. These forms are available in the Admissions and Records office, or online at http://admissions.lbcc.edu/. Refer to the Schedule of Classes (http://schedule.lbcc.edu) and click the "Important Dates" link to view the actual deadline for each semester.

Program of study leading to: Certificate of Accomplishment

Certificate: Android App Developer 4119

Note: Students will learn programming skills in Java or C++, Android App development and Database hands-on.

REQUIRED COURSES		UNITS	In Progress	Completed Grade
CS 21 OR	Introduction to Computer Science- Java OR	4 OR		
CS 11 OR	Introduction to Computer Science– C++	4 OR		
CS 31	Introduction to Computer Science- Python	4		
COSP 230	Android App Development in Java	3		
	TOTAL UNITS	7		

Certificate: PHP Web Programmer Certificate 4129

Note: Students will learn how to build robust web applications with PHP and MySQL.

				In	Completed
REQUIRED COURSES			UNITS	Progress	Grade
COSP 38	Database Concepts		4		
COSW 10	Beginning Website Development		4		
COSW 30	Web Development with PHP/MySQL		4		
COSW 200	Introduction to JavaScript and jQuery		4		
		TOTAL UNITS	16		

Certificate: Web Developer 4131

Note: Students will learn modern web development skills including HTML, CSS, JavaScript, and responsive design for a variety screen sizes.

REQUIRED COURSES		UNITS	In Progress	Completed Grade
COSW 10	Beginning Website Development	4		
COSW 20	Front End Website Development	4		
COSW 200	Introduction to JavaScript and jQuery	4		
	SUBTOTAL UNITS	12		

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QUIRED COURSES		UNITS	In Progress	Complete Grade
COSP 201	Intro to Mobile App Development	1		
COSW 30	Database Programming with PHP/MySQL	3		
COSW 230	Web Development Frameworks	4		
COSW 240	Intro to Content Management Systems	3		
	TOTAL UNITS	16		
				-
graduation with a Certifi	icate of Accomplishment: e required courses with a minimum grade of "C", or "P" if cours			h :-

Career Opportunities

This **Associate Degree or Certificate of Achievement** is a two-year program leading to the Associate in Science (A.S.) degree. It is designed to prepare students for employment in a Web Development related fields. Students wishing a bachelor's degree (transfer program) should meet with a counselor to discuss how this program full articulates with other schools.

Program Mission and Outcomes

The mission of the web development program is to prepare students for careers as Web Design developers and enhance skills for those who are currently employed in the industry.

Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Create websites by employing several web design tools and programming languages.
- Demonstrate and apply effective web development skills for a variety of industries and organizational situations.

Outcomes (Certificate of Accomplishment – Android App Developer)

- Demonstrate the ability to create, design, and implement java based Android application (apps) using the Android API.
- Show the skills to create, manage, and use databases and SQL for Android applications (apps).
- Be able to complete the full development process for Android Applications (apps).

Outcomes (Certificate of Accomplishment – PHP Web Programmer):

• Design, run, and analyze new and existing SQL programs according to commonly practiced industry standards.

Outcomes (Certificate of Accomplishment – Web Developer):

- Create websites by employing several web design tools and programming languages
- Demonstrate and apply effective web development skills for a variety of industries and organizational situations.

Legend

† This course has a prerequisite. Prerequisite courses must be complete with at least a "C" or "P" grade. Refer to the General Catalog (http://www.lbcc.edu/cat/index.html), the Schedule of Classes (http://schedule.lbcc.edu/), or the online Credit Course Outline (http://wdb-asir.lbcc.edu/coursecurriculum/coursedetails/) for specific prerequisite information.

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