

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

Departmental Phone: 562-938-4904, Website: www.lbcc.edu/COS Information on this sheet is subject to change without notice. Any updates to this guide are posted at <u>http://osca.lbcc.edu</u>.

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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