WEB DEVELOPMENT - ASSOCIATE IN SCIENCE

Plan Code: 2128

Students will learn relevant and current web technologies including HTML, CSS, JavaScript/jQuery and database concepts. Other topics include mobile web application development, responsive design, accessibility and user-centered design. This program is designed to prepare students for employment in Web Development related fields including both front-end development and back-end development. Students interested in a bachelor's degree (transfer program) should meet with a counselor to discuss how this program fully articulates with other schools.

Program Student Learning Outcomes

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

Program Requirements

This degree requires the completion of General Education coursework plus the following:

| Code Number | Course Title | Units |
|--|--|-------|
| REQUIRED COURSES | S | |
| COSA 50 | Intro to IT Concepts and Applications | 4 |
| COSP 7 | Programming Concepts and Methodologies | 4 |
| COSP 38 | Database Concepts | 4 |
| COSW 10 | Beginning Website Development | 4 |
| COSW 20 | Front End Website Development | 4 |
| COSW 30 | Web Development with PHP/MySQL | 4 |
| COSW 200 | Introduction to JavaScript | 4 |
| COSW 240 | Intro to Content Management Systems | 3 |
| Required Subtotal | | 31 |
| Complete one of the following: 1 | | |
| LBCC General Education (Plan A) (https://lbcc- | | |

public.courseleaf.com/academic-requirements/general-education-transfer-degree-certificate-requirements/general-education-plans/plan-a/)

CSU GE Breadth (Plan B) (https://lbcc-public.courseleaf.com/academic-requirements/general-education-transfer-degree-certificate-requirements/general-education-plans/plan-b/)

IGETC Pattern (Plan C) (https://lbcc-public.courseleaf.com/academic-requirements/general-education-transfer-degree-certificate-requirements/general-education-plans/plan-c/)

Electives (as needed to reach 60 degree-applicable units) ²

Minimum Degree Total

60

² Elective units from course(s) numbered 1-599, if needed, to reach 60 degree-applicable units.

¹ Units for the major may be double-counted for LBCC GE, CSU GE, or IGETC; see counselor for limitations.

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WEB DEVELOPMENT - CERTIFICATE OF ACHIEVEMENT

Plan Code: 3128

The certificate is designed to prepare students for beginning employment in Web Development related fields in both front-end development and back-end development. Topics include modern website development, responsive design, best practices, database-driven web applications, accessibility and user-centered design.

Program Student Learning Outcomes

- 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.

| Code Number | Course Title | Units |
|------------------|--|-------|
| REQUIRED COURSES | | |
| COSA 50 | Intro to IT Concepts and Applications | 4 |
| COSP 7 | Programming Concepts and Methodologies | 4 |
| COSP 38 | Database Concepts | 4 |
| COSW 10 | Beginning Website Development | 4 |
| COSW 20 | Front End Website Development | 4 |
| COSW 30 | Web Development with PHP/MySQL | 4 |
| COSW 200 | Introduction to JavaScript | 4 |
| COSW 240 | Intro to Content Management Systems | 3 |
| Total Units | | 31 |

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WEB DEVELOPER - CERTIFICATE OF ACHIEVEMENT

Plan Code: 3134

The Web Developer Certificate of Achievement is an entry-level program that will provide students with the necessary technical skills for a junior level web development position. Skills include writing HTML and CSS code, designing interactive web pages using JavaScript, building a site using Content Management Systems, and creating responsive web applications that work across a wide variety of screen sizes.

Program Student Learning Outcomes

- 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.

| Code Number | Course Title | Units |
|--|-------------------------------------|-------|
| COSW 10 | Beginning Website Development | 4 |
| COSW 20 | Front End Website Development | 4 |
| COSW 200 | Introduction to JavaScript | 4 |
| Subtotal Units | | 12 |
| IN ADDITION, complete FOUR (4) units from the following: | | |
| COSP 201 | Mobile App Development | 1 |
| COSW 30 | Web Development with PHP/MySQL | 4 |
| COSW 230 | Web Development Frameworks | 4 |
| COSW 240 | Intro to Content Management Systems | 3 |
| Subtotal Units | | 4 |
| Total Units | | 16 |

PHP WEB PROGRAMMER - CERTIFICATE OF ACHIEVEMENT

Plan Code: 3138

The PHP Web Programmer Certificate of Achievement provides students with entry-level back-end web programming skills to build data driven website applications using HTML, CSS, PHP, and SQL languages.

Program Student Learning Outcomes

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

| Code Number | Course Title | Units |
|-------------|--------------------------------|-------|
| COSP 38 | Database Concepts | 4 |
| COSW 10 | Beginning Website Development | 4 |
| COSW 30 | Web Development with PHP/MySQL | 4 |
| COSW 200 | Introduction to JavaScript | 4 |
| Total Units | | 16 |

ANDROID APP DEVELOPER - CERTIFICATE OF ACCOMPLISHMENT

Plan Code: 4119

Students will learn programming skills in Java or C++, Android App Development, and Database hands-on concepts.

Program Student Learning Outcomes

- Demonstrate the ability to create, design, and implement java-based Android applications (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).

| Code Number | Course Title | Units |
|------------------|---|-------|
| REQUIRED COURSES | | |
| CS 11 | Introduction to Computer Science- C++ | 3 |
| or CS 21 | Introduction to Computer Science-Java | |
| or CS 31 | Introduction to Computer Science-Python | |
| COSP 230 | Android App Development in Java | 3 |
| Total Units | | 6 |