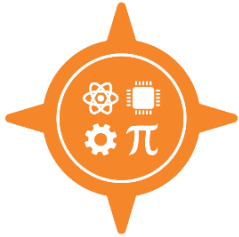


GUIDED PATHWAY: OPEN SOURCE CERTIFICATE

ENGINEERING, TECHNOLOGY, MATHEMATICS and SCIENCES CAREER PATH



For more information, visit the [Dallas College Computer Information Technology webpage](http://www.dcccd.edu/CIT) [www.dcccd.edu/CIT] and your academic advisor at your campus.

This is an example course sequence for students interested in pursuing the Open Source Level II Certificate. It does not represent a contract, nor does it guarantee course availability. Following this pathway will help you earn an Open Source Certificate in Computer Information Technology (Web/Internet Services Awards). Courses from this certificate may apply to the related A.A.S. degree. Students must earn at least 25% of the credit hours required for graduation through instruction by Dallas College. See catalog for [official certificate requirements](#).

This certificate develops skills and knowledge needed to work in industries that use Open Source Technology for desktop and web application development. Companies such as Oracle, Novell, Apple, Hewlett-Packard, and IBM have made significant investments in open source technology. Courses that complete the certificate are noted below. Courses that complete the certificate are noted below.

Catalog Year	2020-2021	You may use this pathway if you entered Dallas College on or before this date.
Degree Type	Level II Certificate	
GPA Requirement	Student must earn a GPA of 2.0 or higher	
TSI	Must be Complete	

SEMESTER-BY-SEMESTER MAP FOR FULL-TIME STUDENTS

All plans can be modified to fit the needs of part-time students. This is not an official degree plan. See catalog for [official certificate requirements](#).

CERTIFICATE MINIMUM: 45 SEMESTER CREDIT HOURS

PREREQUISITE

Basic understanding of personal computers and operating systems as obtained in [ITSC 1401](#) or [BCIS 1405](#) or [COSC 1301](#) and problem solving and logic structures as obtained in [ITSE 1429](#) or equivalent experience approved by designated Information Technology personnel.

SEMESTER 1

Total Hours: 15

[IMED 1416](#) – Web Design I
[ITNW 1425](#) – Fundamentals of Networking Technologies
[ENGL 1301](#) – Composition I *This is a Core course. Must earn a grade of "C" or higher.*
CHOOSE ONE: [ITSE 2417](#) – Java Programming **OR**
[ITSE 1411](#) – Beginning Web Programming

SEMESTER 1 ACTION ITEMS

1. Meet with your advisor to confirm academic and career goals before the end of the semester.
2. Meet with a career advisor or coach to research your career options and opportunities for job shadowing and for assistance in preparing for job search.

SEMESTER 2

Total Hours: 15

[ITSC 1416](#) – Linux Installation and Configuration
[ITSE 1303](#) – Introduction to MySQL
[ITSE 1406](#) – PHP Programming
CHOOSE ONE: [GAME 1409](#) – Introduction to Animation Programming
[INEW 2434](#) – Advanced Web Programming
[INEW 2438](#) – Advanced Java Programming
[ISTE 2459](#) – Advanced Computer Programming (*Android Programming*)

SEMESTER 2 ACTION ITEMS

1. Meet with your advisor to request an official degree plan and confirm or update your academic and career path and program of study.
2. Meet with a career advisor or coach to research your career options and opportunities for job shadowing and for assistance in preparing for job search.

SEMESTER 3

Total Hours: 15

[ITSY 1400](#) – Fundamentals of Information Security

[IMED 2449](#) – Internet Server Management

[IMED 2413](#) – Project Analysis and Design *This course is the capstone experience for this award.*

CHOOSE ONE: [SPCH 1311](#) – Introduction to Speech Communication *This is a Core course.* **OR**

[SPCH 1315](#) – Public Speaking *This is a Core course.*

SEMESTER 3 ACTION ITEMS

1. Meet with your advisor to apply for the Open Source Certificate.

PATHWAY TOTAL: 45 SEMESTER CREDIT HOURS