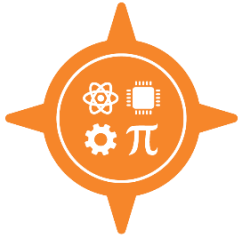# GUIDED PATHWAY: OPEN SOURCE CERTIFICATE

ENGINEERING, TECHNOLOGY, MATHEMATICS and SCIENCES CAREER PATH

For more information, visit the Dallas College Computer Information Technology webpage [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	2021-2022 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)*

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