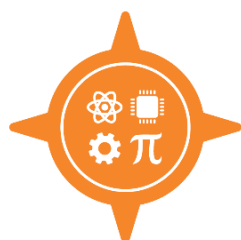# DALLAS COLLEGE

GUIDED PATHWAY: OBJECT-ORIENTED PROGRAMMING SKILLS ACHIEVEMENT AWARD

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 Computer Information Technology Programming Awards. It does not represent a contract, nor does it guarantee course availability. Following this pathway will help you earn a Skills Achievement Award in Object-Oriented Programming. 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 sequence is for students who wish to learn an object-oriented programming language in depth. It includes instruction and practice in writing, executing, testing and debugging object-oriented programs on a personal computer in C++, C# or Java. Classes, objects, inheritance, interfaces, parameterized types, generic programming, iterators, templates, collections and containers are also covered in detail.

Students pursuing this certificate are waived from the Texas Success Initiative (TSI) standards, but must meet course prerequisites.

Catalog Year	2020-2021 You may use this pathway if you entered Dallas College on or before this date.
Degree Type	Skills Achievement Award
GPA Requirement	Student must earn a GPA of 2.0 or higher
TSI	May be Exempt

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: 8 SEMESTER CREDIT HOURS

PREREQUISITES

Basic understanding of personal computers and operating systems as obtained in ITSC 1401 or BCIS 1405 or COSC 1301 or equivalent experience approved by designated Information Technology personnel.

SEMESTER 1   Total Hours: 4

CHOOSE ONE: **ITSE 1407** – Introduction to C++ Programming
ITSE 1430 – Introduction to C# Programming
COSC 1436 – Programming Fundamentals I
ITSE 1432 – Introduction to Visual Basic.NET Programming *OR*
ITSE 2417 – Java 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 to research career options and opportunities for job shadowing.

SEMESTER 2   Total Hours: 4

CHOOSE ONE: **ITSE 2431** – Advanced C++ Programming *Capstone experience for this award.*
ITSE 2453 – Advanced C# Programming *Capstone experience for this award.*
ITSE 2434 – Advanced Visual Basic.NET Programming *Capstone experience for this award.* *OR*
INEW 2438 – Advanced Java Programming *Capstone experience for this award.*

1. Meet with your advisor to request an official program of study audit and confirm or update your academic/career path and program of study.
2. Meet with your advisor to apply for the Object-Oriented Programming Skills Achievement Award

PATHWAY TOTAL: 8 SEMESTER CREDIT HOURS