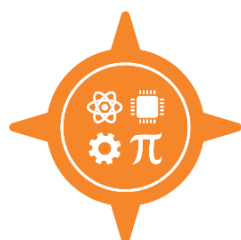


# GUIDED PATHWAY: OBJECT-ORIENTED PROGRAMMING SKILLS ACHIEVEMENT AWARD

ENGINEERING, TECHNOLOGY, MATHEMATICS and SCIENCES CAREER PATH



For more information, visit the [Dallas College Computer Information Technology webpage](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 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        | 2021-2022                                | 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 |                                                                                |
| <a href="#">TSI</a> | 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.*

***SEMESTER 2 ACTION ITEMS***

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**