

CPET 125C : Data Structures

Introduces students to abstract data types, object-oriented programming, and algorithm analysis. Students will use procedural and object-oriented techniques to program stacks, queues, linked lists, hash tables, and binary trees. Asymptotic (Big O) notation will be used to analyze data structures and sort algorithms. The effective use of C++ topics such as pointers, operator overloading, and templates will be covered. Students will write programs in C++ and Java.

Credits 3

Lab/Practicum/Clinical Hours 3

Lecture Hours 2

Prerequisite Courses

CPET 107C