

COURSE PREFIX/NO:	CPE 110
COURSE TITLE:	Computer Language
LEC HRS/WEEK:	3.0
LAB HRS/WEEK:	0.0
CREDIT HRS/SEMESTER:	3.0

[DL ATTENDANCE/VA STATEMENT](#)
[TEXTBOOK INFORMATION](#)

COURSE DESCRIPTION:

This course covers a high-level language, programming concepts, and applications.

COURSE COMPETENCIES:

Upon successful completion of this course, the student should be competent to perform the following tasks

Module A—C++ Programming Fundamentals

- Input and output data through keyboard and file.
- Identify variables, manipulators and operators.
- Use Algorithms to develop programs
- Use documentation formats.

Module B—Loops, Decisions, Structures and Enumerated Data Types

- Use condition, logic and selection control structures
- Design loops

Module C—Functions

- Design functions
- Use overloaded functions and inline functions
- Use variable storage classes

Module D—Arrays

- Apply array fundamentals
- Use passing arrays as parameters to functions
- Use multidimensional arrays

Module E—Graphics and Windows

- Create text Mode
- Use Created text mode functions
- Use graphics Mode

MINIMAL STANDARDS/PERFORMANCE OBJECTIVES:

Module A— C++ Programming Fundamentals

- Given a C++ environment and the instructions, the student should be able to input and output data through the keyboard with 100% accuracy.
- Given a C++ environment and instructions, the students should be able to identify different types of variables and operators with 85% accuracy.

Module B— Loops, Decisions, Structures and Enumerated Data Types

- Given a C++ environment and instructions, the student should be able to write programs using different control structures and loops with 85% accuracy.

Module C— Functions

- Given a C++ environment and instructions, the student should be able to write programs using

functions with 85% accuracy.

Module D— Arrays

- Given a C++ environment and instructions, the student should be able to write programs using arrays with 85% accuracy.

Module E— Graphics and Windows

- Given a C++ environment and instructions, the student should be able to create Graphics with 85% accuracy.

COURSE REQUIREMENTS:

Students are responsible for attaining competencies through completion of the following course requirements:

ATTENDANCE:

Students should adhere to the attendance policy set forth in the York Technical College Student Handbook. Student must attend 80% of the hours assigned the class for a semester to receive credit for the course. In case a student does miss a class, he/she is responsible for obtaining the material that was covered during the absence. If a student is aware that he/she will miss a class, then the student should notify the instructor at the earliest possible date. If a student misses a test because of illness or urgent emergency, it is the responsibility of the student to do the following:

Notify the instructor prior to the scheduled test date or at the earliest possible date. Make an arrangement with the instructor to make up the test. (Students with unexcused absences at the time of the test will be allowed to take a make-up test only at the discretion of the instructor.)

ACADEMIC HONESTY:

York technical college adheres to the South Carolina Tech student code, approved by the State Board for Technical and Comprehensive Education on March 13, 1974 and again on April 25, 1984). Copies of this code are available in the Library and from Student Services. Any student caught cheating, or involved in any other academic dishonesty, will be given a grade of zero and will be subject to further disciplinary action.

LABORATORY REQUIREMENTS:

Laboratory experiment worksheets will be either handed out or available via computer each week. These labs must be completed by the student and submitted by the next laboratory period. All data taken during the experiment and observations noted by the student will be part of the laboratory report. Any questions will be answered and a hard copy of all computer simulations will be attached to the laboratory report prior to submission.

EVALUATION STRATEGIES/GRADING: The following scale will be the standard:

Grade Score

A	90 - 100
B	80 - 89
C	70 - 79
D	60 - 69
F	below 60

Final grades will be determined as follows:

Each module will have equal weight and contribute 25% toward the final grade.

Grades for each module will be determined as follows:

Major Tests (minimum of 1)	50 %
Laboratory (minimum of 1)	25 %
Homework	15 %
Affective Skills	10 %

1. Attendance at 95% or more of the classes and labs.
2. Dependability (No tardiness).
3. Acceptable student conduct as defined in the College Catalog.

The instructor options will be discussed with the students during the first week of class. These options may include homework, spot quizzes or written reports.

Students are expected to "conduct themselves with dignity and to maintain high standards of responsible citizenship." (York Technical College Catalog, Student Life Section. "Student Conduct"). Points will be deducted for disruptive behavior that violates the principles of acceptable conduct.

ENTRY-LEVEL SKILLS:

The student must be able to understand basic programming logic

PREREQUISITES: CPE 107 or equivalent.

CO-REQUISITES: None