**CCC, Computer Programming Specialist**

**CCC CPSP**

**Purpose**

This certificate program is part of the Computer Programming and Analysis AS degree program.

A College Credit Certificate consists of a program of instruction of less than sixty (60) credits of college-level courses, which is part of an AS degree program and prepares students for entry into employment.

The College Credit Certificate (CCC) Computer Programming Specialist program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the Information Technology field.

The content covers concepts necessary to develop and write computer programs; code into computer language; test, monitor, debug, document, and maintain computer programs. More than one programming language is addressed in this certificate program.

**Program Structure**

This program is a planned sequence of instruction consisting of 18 credit hours of Computer Programming Core Requirements. Students completing this College Credit Certificate can transfer the credits directly to the AS Computer Programming & Analysis Degree.

**Course Prerequisites**

***Many courses require prerequisites.*** Click on each course’s name in the list below to check for prerequisites, minimum grade requirements, and other restrictions related to the course. Students must complete all prerequisites for a course prior to registering for it.

**Certificate Completion/Graduation**

Students must fulfill all requirements of their program major after which, students must complete an application for graduation through the Office of the Registrar and enroll in the GRD 1500 course the semester in which they intend to graduate. Students must apply for graduation ***by the*** ***published deadline*** to be assured of final clearance for graduation, timely receipt of their certificate, and participation in the commencement ceremony.

**Computer Programming Specialist Certificate Requirements: 18 Credit Hours**

CGS 1000 – Computer Literacy – 3 credits (or CLEP CGS 1077 - 3 transfer credits)

CGS 2260 – Computer Hardware and Software Maintenance – 3 credits

COP 1000 – Introduction to Computer Programming – 3 credits

COP 1822 - Internet Programming HTML - 3 credits

COP 2800 - Java Programming - 3 credits

**Choose one of the following courses**

COP 1170 - Visual Basic Programming I - 3 credits

OR

COP 1224 - Programming with C++ - 3 credits

OR

COP 2360 - C# Programming I - 3 credits

**Total Certificate Requirements: 18 Credit Hours**

**Information is available online at:** [**http://www.edison.edu/academics/**](http://www.edison.edu/academics/) **or on the School of Business and Technology Home Page at:** [**http://www.edison.edu/sobt**](http://www.edison.edu/sobt)