

# COMPUTER SCIENCE: MOBILE PROGRAMMING, AAS

**Program code:** CSMP-AAS

**Location:** Capital, Gateway, Norwalk

## Program Description

This program prepares students for technical positions within the Computer Science field. It provides students with the skills needed to be successful in the emerging field of mobile device programming technologies. The program teaches students fundamental concepts as well as fosters preparation for tomorrow's programming needs. Course work is focused on programming in heterogeneous platform environments through multiple programming languages, and development of both written and verbal communication skills needed in all areas of the business community.

## Learning Outcomes

Upon successful completion of this degree, graduates will be able to:

1. Demonstrate an understanding of connections between various platforms and programming languages;
2. Work with and study the underlying technologies that support the internet;
3. Demonstrate the ability to use an IDE (integrated development environment);
4. Demonstrate the use of OOP (object oriented programming) techniques in program design and development;
5. Demonstrate writing, compiling and executing code in Object Oriented programming languages;
6. Test programs and troubleshoot simple problems;
7. Understand relational database design methodology and be able to use database software to build, modify, and query relational databases; and
8. Produce logical software solutions to problems.

This program is currently only offered to PTECH and Early College Studies students. This program will operate at the Norwalk Campus.

## Degree Requirements

Code	Title	Credits
<b>General Education Courses</b>		
ENG 1010	Composition	3
MATH 1610	Precalculus	4
	Elective ARHX - Arts & Humanities Course	3-4
BIO 1210	General Biology I	4
HIST 1015	US History to 1877	3
	or HIST 1016	
COMM 1301	Public Speaking	3
CCS 1001	College and Career Success	3
<b>Program Courses</b>		
CSC 1201	Introduction to Programming	4
CSC 2213	Object Oriented Programming	4
CSC 1231	Database Development and Design I	4

CSC 2232	Database Development II	4
CSC 2252	Programming Mobile Devices I	3
CSC 2253	Programming Mobile Devices II	3
CSC 1271	Web Development and Design I	4
CSC 2272	Web Development and Design II	4
CSC 2276	XML for the Worldwide Web	4
Directed Electives (Any CSC or CST or MATH 2000-level or higher)		6-8
<b>Total Credits</b>		<b>63-66</b>

There are four Associate degree options within Computer Science. Students may earn only one degree but can earn additional certificates.

- Computer Science: Relational Database Development Certificate
- Computer Science: Smartphone Application Development
- Computer Science: Software Development
- Computer Science: Software Engineering, AAS
- Computer Science: Web Developer Certificate
- Computer Science: Web Development, AAS