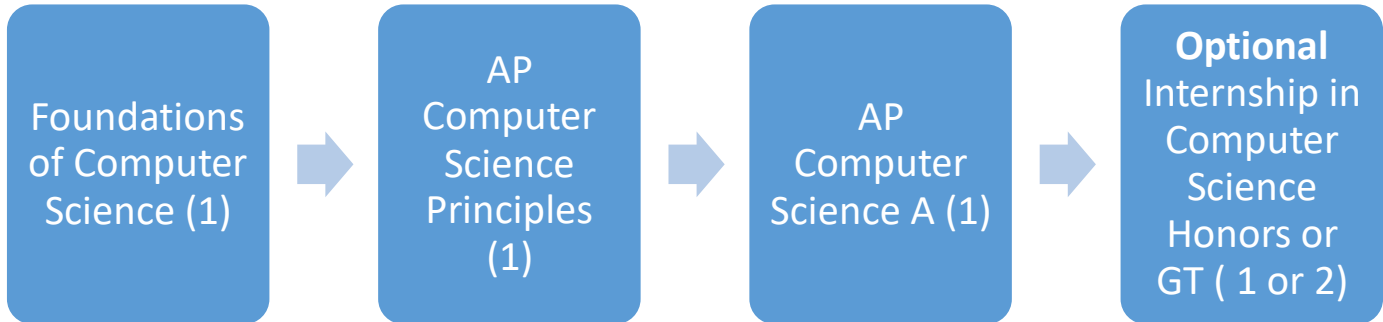


Information Technology: Computer Science Pathway



Foundations of Computer Science (Prerequisite: None// Recommendation: C or higher achieved in Algebra 1)

This course is designed to introduce students to the breadth of the field of computer science through an exploration of engaging and accessible topics. Rather than focusing the entire course on learning particular software tools or programming languages, the course is designed to focus the conceptual ideas of computing and help students understand why certain tools or languages might be utilized to solve particular problems. This course may also count as the Technology Education Graduation. Students may not “double dip” on their Technology Education credit.



AP Computer Science Principles (Prerequisite: Successful completion of Foundations of Computer Science is required for pathway.)



This course advances students’ understanding of the technical aspects of computing including programming and algorithm design, computer system organization and operation, and data representation and information organization. This course includes the use of several programming languages, based on the specific project or problem students must solve.

AP Computer Science A (Prerequisite: Successful completion of AP Computer Science Principles is required for pathway.)

This course is designed to provide students with a learning experience equivalent to that of an introductory college course in computer science. AP Computer Science A emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development, and includes the study of data structures, design, and abstraction using the Java programming language.



Internship in Computer Science (Optional course; not required for completion of pathway.)

Students will have the option of completing an industry mentored project or internship.

*Contact Ms. Krause at ckrause@bcps.org for further information.

2023-2024 Articulation Agreement

between

Baltimore County Public Schools and Community College of Baltimore County

BCPS Program Title:

IT Computer Science

CCBC Program Titles:

Information Technology; Network Technology

Program Location(s): All High Schools Eligible

| BCPS Course # | BCPS Course Title | BCPS Credits Earned | CCBC Course # | CCBC Course Title | CCBC Credits Awarded |
|--------------------------------------|--|----------------------------|----------------------|----------------------------------|-----------------------------|
| <i>Required</i> | <i>BCPS Courses</i> | <i>Below</i> | <i>CCBC</i> | <i>Courses Awarded</i> | <i>Below</i> |
| 35.3500.4 <i>and</i> 35.3510.6 | Foundations in Computer Science <i>and</i> AP Computer Science Principles | 1 <i>and</i> 1 | CSIT 111 | Fundamentals of Logic and Design | 3 |
| 35.3520.6 | AP Computer Science A | 1 | CSIT 210 | Introduction to Programming | 4 |

This agreement is not a course by course alignment. BCPS students must successfully complete all required credits in the CTE career completer program of study with a cumulative technical Grade Point Average of a B or better and with a C grade or higher in each required course to receive articulated credit.