

**Provider:**

Edmentum EdOptions Academy

**Course Code:**

4570

**Content Area:**

Mathematics

**Course Delivery:**

Online

**Enrollment Type:**

Continuous

**Enrollment Deadline:**

None

**Course Description:**

This one-semester course is intended to introduce you to the concepts of computer programming. This course has 20 lessons organized into four units, plus four Unit Activities. Each lesson contains one or more Lesson Activities.

In Advanced Computer Science A, you will describe the basic concepts of computer programming. You will compile and run a simple Java program. You will use arithmetic, relational, and logical operators. You will implement algorithms, and use different types of loop and decision-making statements. You will create and use classes. You will create and manipulate one-dimensional and two-dimensional arrays. You will perform sequential search, binary search, selection sort, and insertion sort on an array. You will explain and implement object-oriented programming design. You will implement inheritance, polymorphism, and abstraction. Further, you will describe privacy and legality in the context of computing.

**Credit:**

.5

**Credit Type:**

Advanced Placement

**NCAA Approved:**

Yes

**NCAA Code:**

240280

**Contact:**

Shane Dennison

(330) 701-7718

[shane.dennison@edmentum.com](mailto:shane.dennison@edmentum.com)

(link sends e-mail)

**Cost:**

\$325.00

**Additional cost information:**

per student enrollment