Computer Science Courses - SCED Code & Teaching Endorsements

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Computer science education is a critical need for students in the Commonwealth. This document outlines computer science course offerings and teacher endorsement requirements.

Computer science standalone courses should be taught by teachers with a computer science endorsement. Currently, there is a shortage of endorsed computer science teachers. This document provides guidance on how school divisions can address this shortage in the short term by permitting the following teacher endorsements for the 2022-2023 academic school year.

**Elementary**

For school divisions that select to provide separate instruction at the K-5 level. There is the **Exploring Computer Science Course**: SCED Code - **10012ELEM.**

This course may be taught by educators with the following teaching endorsements:

* Early Education NK-4 - **9320**
* Early Education NK-5 - **9321**
* Elementary Education K-5 - **9323**
* Elementary Education NK-5 - **9325**
* Elementary Education Prek-6 - **9345**
* Kindergarten Elementary Grades 1-7 - **9350**
* Elementary Grades K-7 - **9400**
* Elementary Grades K-8 - **9820**
* Early-Middle Education K-8 - **9821**
* Elementary Grades NK-8 - **9825**

**Middle and High School**

The 6-8 middle school elective course is Middle School Computer Science Elective: SCED Code - **10012MS**

The **middle school elective course 10012MS** may be taught by an educator with one of the following teaching endorsements:

* Computer Science - **2004**
* Computer Science Specialist - **3010**
* Mathematics - **3100**
* General Mathematics - **3110**
* Mathematics: Algebra I - **3120**
* Business and Information Technology - **6900**
* Middle Education 6-8: Mathematics - **9770**

The high school computer science courses consist of:

* Computer Science Foundations: SCED Code - **10012**
* Computer Science Principles: SCED Code - **10011**
* Computer Science Programming : SCED Code - **10152NCTE**

These **high school computer science** courses may be taught by an educator with one of the following teaching endorsements:

* Computer Science - **2004**
* Computer Science Specialist - **3010**
* Mathematics - **3100**
* Business and Information Technology - **6900**

**Advanced Placement Computer Science** courses include the following:

* AP Computer Science A: SCED Code - **10157**
* AP Computer Science Principles : SCED Code - **10019**

The **advanced placement courses** listed above may be taught by educators with the following teaching endorsements:

* Computer Science - **2004**
* Computer Science Specialist - **3010**
* Mathematics - **3100**
* Business and Information Technology - **6900**

Teacher endorsement does not indicate course credit awarded towards graduation requirements. Course credit is determined through the academic and career plan of study developed in collaborative partnership with the student, the parent(s), and the school.

Teacher endorsements are reviewed annually and determined based on the standards within each course. Approved teacher endorsements are subject to change.

For additional questions related to computer science course SCED codes and teacher endorsements, please contact the Virginia Department of Education Computer Science Coordinator, Keisha Tennessee, at Keisha.Tennessee@doe.virginia.gov.