

## **Computer Science – Graduation Credit**

We've seen the news recently.

- Pro-Russia hacking group targets US airports
- Uber and other businesses
- Banks and Financial Institutions
- School Districts, colleges, etc.
- Colonia Pipeline
- Credit Card records from several major restaurant chains
- Church sites
- Crypto Currency sites

Faced with a desperate skills shortage, tech leaders plead for computer science reform in schools. Amazon, Microsoft, Meta and others have also signed on to partner with the education nonprofit Code. Students have several options that can be made available to them to meet the requirements.

(July) At the moment, America has 700,000 open computing jobs but only 80,000 computer science graduates annually.

EdNC: By the year 2040, 70% of all jobs will require some level of competency in computer science, according to a recent Department of Public Instruction (DPI) presentation to state lawmakers.

There is work now in NC between NCDPI and the UNC system regarding the minimum entrance requirements for the UNC system. By the year 2040, 70% of all jobs will require some level of competency in computer science, according to a recent Department of Public Instruction (DPI) presentation to state lawmakers. Currently, computer science only counts as an elective in the state's K-12 system. Jamey Falkenbury, director of government affairs for state Superintendent Catherine Truitt, says that creates a disincentive; students are more concerned with taking classes that meet the minimum requirements of the UNC System, rather than electives. "The biggest rub ... is students are not going to take something if it doesn't count towards their future plans," he said. (Math and/or Science Credit versus pure elective)

We have more than 50,000 unfilled IT and Computer Science based jobs available in our state, with an average salary above \$90k

## **Superintendent's Request**

Minimum of one Computer Science credit (as defined) as a Graduation Credit beginning with this year's 8<sup>th</sup> grade class (Class of 2027).

Can be accomplished via Face to face, blended, or online options.

May be taken outside of the school day and/or during the Summer

Potential Source of Course Offerings:

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**Career Technical Education (CTE)**

- Computer Science and Information Technology Education
  - Computer Science I

**Blue Ridge Community College**

- COMPUTER SCIENCE
  - CSC 221 – Introduction to Problem Solving and Programming
  - CSC 111 - Intro to Ethical Hacking
  - CSC 121 - Python Programming
  - CSC 134 - C++ Programming
  - CSC 153 - C# Programming

**Advanced Placement (AP)**

- AP Computer Science A (NCVPS)

**North Carolina School of Science and Math (NCSSM)**

- Scientific Programming (Online Option)

**Code.Org**

- Course Combinations

**Locally Developed Course**