**When are divisions expected to begin implementing the Computer Science Standards of Learning?**

The Computer Science Standards of Learning are to be taught starting Fall 2019.

**Will the Computer Science Standards of Learning be tested using a state assessment?**

Currently, there are no state Computer Science Standards of Learning assessments. Teachers are expected to teach and assess the computer science skills within their classrooms using a variety of assessment approaches. The use of authentic problems and performance tasks could provide opportunities for students to demonstrate and apply their knowledge of the standards.

**Will Computer Science questions appear on related SOL tests?**

Questions directly related to the *Computer Science Standards of Learning* will not appear on any subject area *Standards of Learning* assessment

**How will school divisions be expected to demonstrate their Computer Science implementation for accreditation?**

Student performance in computer science is not part of the current Virginia Standards of Accreditation. The current Virginia Standards of Accreditation do not include student performance in computer science as a graduation requirement.

**What additional resources will be provided to guide teachers?**

Curriculum Frameworks will provide context, explain key vocabulary, and suggest integration opportunities for Computer Science concepts.

In addition, VDOE professional development opportunities will be available for teachers and administrators. Information on professional development opportunities will be communicated through Superintendent’s Memos and through the VDOE website.

**What license endorsement is currently required to teach computer science at the secondary level?**

Information concerning licensure endorsement requirements can be found at:

[VDOE Licensure Page](http://www.doe.virginia.gov/teaching/licensure/index.shtml)

[License Renewal Manual](http://www.doe.virginia.gov/teaching/licensure/licensure-renewal-manual.docx)

[Computer Science Endorsement Requirements](https://law.lis.virginia.gov/admincode/title8/agency20/chapter23/section300/)

**Will there be licensure endorsements required to teach computer science at the elementary or middle school levels?**

Currently, there are no additional license endorsement needed to teach integrated computer science at the K-8 level. Standalone courses taught at the middle or high school level will require an appropriate endorsement as listed on the VDOE website.

**How do we increase the number of teachers endorsed to teach Computer Science?**

There are currently several pathways leading toward an add-on endorsement in Computer Science. The new Praxis Computer Science test was recently approved for awarding this endorsement. Virginia universities are also considering developing programs for pre-service teachers.

**What is the expectation for the instruction of the Computer Science Standards of Learning at the elementary level?**

Teachers are expected to integrate Computer Science standards into core discipline instruction where appropriate. Guidance on the integration of computer science will be provided through VDOE professional development opportunities, instructional resources and the Computer Science Curriculum Frameworks due out Summer 2019.

**Will any of the new high school computer science courses be eligible for students to earn standard credits to meet graduation requirements in mathematics, science, or CTE?**

VDOE Internal evaluations are in progress to find the best place computer science may fit in a student’s academic pathway. Per the Standards of Quality, a computer science course credit earned by students may be considered a mathematics course credit, a science course credit, or a CTE course credit. The board shall approve courses to satisfy this requirement. Below is a chart that lists the existing computer science courses that currently satisfy these graduation requirements.

| Current High School Computer Science Courses Eligible for Standard Units of Credit to Meet High School Mathematics Graduation Requirements | Current High School Computer Science Courses Eligible for Standard Units of Credit to Meet High School Science Graduation Requirements | Current High School Computer Science Courses Eligible for Standard Units of Credit to Meet High School CTE Graduation Requirements |
| --- | --- | --- |
| Computer Mathematics – 2156Advanced Placement Computer Science A - 10157 | Advanced Placement Computer Science A - 10157 | Programming 6640 - 10152Advanced Programming 6641 - 10152AP Computer Science Principles - 10019AP Computer Science A - 10157 |