Enrolled

Senate Bill 267

BY SENATORS CARMICHAEL (MR. PRESIDENT) AND PREZIOSO

(BY REQUEST OF THE EXECUTIVE)

[Passed February 11, 2019; in effect 90 days from passage]
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By Senators Carmichael (Mr. President) and Prezioso

(By Request of the Executive)

[Passed February 11, 2019; in effect 90 days from passage]
AN ACT to amend and reenact §18-2-12 of the Code of West Virginia, 1931, as amended, relating to requiring the State Board of Education to adopt a policy detailing the appropriate level of computer science instruction that shall be available to students at each programmatic level; and requiring the West Virginia Department of Education to develop and offer professional development opportunities.

Be it enacted by the Legislature of West Virginia:

ARTICLE 2. STATE BOARD OF EDUCATION.

§18-2-12. Computer science courses of instruction; learning standards; state board plan development.

(a) Legislative findings:

(1) Computer technology increasingly is pervasive in nearly every function of society from consumer products to transportation, communications, electrical infrastructure, logistics, agriculture, medical treatments, research, security, and financial transactions;

(2) The U. S. Bureau of Labor Statistics predicts that by 2024, there will be more than 800,000 new jobs in the STEM fields and more than two thirds of these directly will be in computing occupations;

(3) Studying computer science prepares students to enter many career areas, both within and outside of computing, teaching them logical reasoning, algorithmic thinking, design, and structured problem-solving skills applicable in many contexts from science and engineering to the humanities and business;

(4) Computer science is an established discipline at the collegiate and post-graduate levels but, unfortunately, computer science concepts and courses have not kept pace in the K-12 curriculum, to the point that the nation faces a serious shortage of computer scientists at all levels that is likely to continue for the foreseeable future; and

(5) Organizations such as the Computer Science Teachers Association, the International Society for Technology in Education, and technology industry leaders have developed
recommendations for standards, curriculum, and instructional resources for computer technology learning in K-12 schools.

(b) Prior to the 2017 regular legislative session, the state board shall submit a plan to the Legislative Oversight Commission on Education Accountability for the implementation of computer science instruction and learning standards in the public schools. The plan shall include at least the following:

(1) Recommendations for a core set of learning standards designed to provide the foundation for a complete computer science curriculum and its implementation at the K-12 level including, but not limited to:

(A) Introducing the fundamental concepts of computer science to all students, beginning at the elementary school level;

(B) Presenting computer science at the secondary school level in a way that is both accessible and worthy of an academic curriculum credit and may fulfill a computer science, math, or science graduation credit;

(C) Encouraging schools to offer additional secondary level computer science courses that will allow interested students to study facets of computer science in more depth and prepare them for entry into the workforce or college; and

(D) Increasing the availability of rigorous computer science for all students;

(2) Recommendations for teaching standards and secondary certificate endorsements if necessary for teachers to deliver curriculum appropriate to meet the standards;

(3) Recommendations for units of instruction or courses in academic and vocational technical settings that complement any existing K-12 computer science and IT curricula where they are already established, especially the advanced placement computer science curricula and professional IT certifications; and

(4) Proposals for implementation of the recommendations over a period not to exceed four years and estimates of any associated additional costs.
(c) Nothing in this section requires adoption or implementation of any specific recommendation or any level of appropriation by the Legislature.

(d) Recognizing the importance of computer science instruction and how computer science instruction will assist students in their transition to post-secondary opportunities, prior to the 2020-2021 school year, the state board shall adopt a policy detailing the appropriate level of computer science instruction that shall be available to students at each programmatic level.

(e) The West Virginia Department of Education shall develop and offer professional development opportunities to ensure educators are equipped with the requisite knowledge and skill to deliver computer science instruction as outlined in this section. The department may partner with high-quality computer science professional learning providers in developing and offering the professional development opportunities.
The Joint Committee on Enrolled Bills hereby certifies that the foregoing bill is correctly enrolled.

[Signatures]

Chairman, Senate Committee

Chairman, House Committee

Originated in the Senate.

In effect 90 days from passage.

[Signatures]

Clerk of the Senate

Clerk of the House of Delegates

President of the Senate

Speaker of the House of Delegates

The within is approved this the 19th Day of February, 2019.

[Signature] Governor
PRESENTED TO THE GOVERNOR

Time 2:56 pm