3   SENATE BILL NO. 593   By: Stanislawski

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6   **[schools - computer science courses - requirements -
        funding - codification - ~~effective date~~ -**
7   **~~emergency~~]**

8

9

10 BE IT ENACTED BY THE PEOPLE OF THE STATE OF OKLAHOMA:

11   SECTION 1.   NEW LAW   A new section of law to be codified

12 in the Oklahoma Statutes as Section 11-103.6m of Title 70, unless

13 there is created a duplication in numbering, reads as follows:

14   A. As used in this section:

15   1. "Computer science" means the study of computers and

16 algorithmic processes, including their principles, their hardware

17 and software designs, their implementation and their impact on

18 society. Content shall focus on teaching students how to create new

19 technologies not simply use technology and align to the Oklahoma

20 Academic Standards for Computer Science approved by the State Board

21 of Education in 2018;

22   2. "Computer science courses and content" means courses that

23 teach computer science either as stand-alone implementations or, for

24 elementary and middle school grades, embedded in other subjects;

1   3.   "High-quality professional learning" means professional

2 development activities that:

3   a.   clarify the conceptual foundations of computer

4   science,

5   b.   teach research-based practices, including hands-on and

6   inquiry-based learning, and

7   c.   are intended for existing teachers with or without

8   prior exposure to computer science; and

9   4.   "High-quality professional learning providers" means

10 institutions of higher education, non-profit organizations or

11 private entities that have successfully designed, implemented and

12 scaled high-quality computer science professional learning for

13 teachers as defined in paragraph 3 of this subsection and approved

14 or recommended by the State Board of Education.

15   B.   Beginning in the 2022-2023 school year:

16   1.   Each public high school and public charter school that

17 includes high school grades in this state shall offer at least one

18 computer science course, which shall be offered in an in-person

19 setting or as an online course if the traditional in-person setting

20 is not feasible;

21   2.   Each public middle school and public charter school that

22 includes middle school grades in this state shall offer instruction

23 in exploratory computer science; and

24

1   3. Each public elementary school and public charter school that

2   includes elementary school grades in this state shall offer

3   instruction in the basics of computer science and computational

4   thinking.

5   C. A computer science course or instruction in computer science

6   offered by a public school or public charter school shall:

7   1. Be of high quality, as defined by the State Board of

8   Education; and

9   2. Meet or exceed the subject matter standards and curriculum

10 requirements established by the State Board of Education pursuant to

11 Section 11-103.6 of Title 70 of the Oklahoma Statutes.

12   D. Contingent upon the availability of funds, One Million

13 Dollars ($1,000,000.00) shall be made available annually on a

14 competitive grant basis to eligible entities to develop and

15 implement high-quality professional learning programs for the

16 computer science courses and content required by subsection B of

17 this section. For the purposes of this section, "eligible entities"

18 includes:

19   1. A local education agency or a consortium of local education

20 agencies in this state, including public charter school

21 organizations; and

22   2. High-quality computer science professional learning

23 providers, including institutions of higher education in this state,

24

1 non-profit organizations or private entities working in partnership

2 with local education agencies.

3   E. The funds made available by subsection D of this section

4 shall be used for the following:

5   1. High-quality professional learning in computer science

6 content for teachers in grades kindergarten through twelve,

7 including travel reimbursement to attend workshops;

8   2. Credentialing for computer science teachers in grades

9 kindergarten through twelve, including career and technology

10 education and academic supplemental endorsements;

11   3. Supports for computer science professional learning in

12 grades kindergarten through twelve, including mentoring and

13 coaching;

14   4. Creation of resources to support implementation; and

15   5. Student recruitment.

16   F. As a condition of receiving the funds provided for in

17 subsection D of this section, eligible entities shall submit a grant

18 application to the State Department of Education. The application

19 shall, at a minimum, address how the entity will:

20   1. Reach new and existing teachers with little to no computer

21 science background;

22   2. Use research- or evidence-based practices for high-quality

23 professional development;

24

1 3. Focus the professional learning on the conceptual

2 foundations of computer science;

3 4. Reach and support historically underrepresented students in

4 computer science;

5 5. Provide teachers with concrete experience with hands-on,

6 inquiry-based practices;

7 6. Accommodate the teacher's and student's needs in each

8 district and school; and

9 7. Ensure that participating districts begin offering the

10 courses or content area within same or next school year after the

11 teacher receives the professional learning.

12 G. The State Department of Education shall give preference to

13 grant applications for funding that:

14 1. Are submitted by local education agencies that are working

15 in partnership with providers of high-quality professional learning

16 for kindergarten through twelfth grade computer science;

17 2. Describe strategies to enroll female students,

18 underrepresented minority students, students who qualify for free or

19 reduced-price lunch, students with disabilities and English language

20 learners; and

21 3. Are submitted from rural or urban areas with a low

22 penetration of kindergarten through twelfth grade computer science

23 offerings, including local education agencies that partner to form

24 clusters of implementation.

1   H. Any funds available after allocations are made pursuant to

2 subsection D of this section shall carry forward to be made

3 available to eligible entities the following fiscal year.

4   I. Entities allocated funds pursuant to subsection D of this

5 section shall submit a report to the State Department of Education

6 on June 30 of each year. The report shall be posted on the State

7 Department of Education's website and shall include at a minimum:

8   1. The number of teachers prepared;

9   2. The number of students reached;

10   3. The gender, race and socioeconomic status of students

11 reached;

12   4. The number, gender, race and socioeconomic status of

13 students passing an advanced placement assessment; and

14   5. The number of teachers that started implementing computer

15 science course in middle school and high school grades, as well as

16 the number of prepared teachers that attended high-quality

17 professional learning.

18   J. The State Board of Education shall promulgate rules

19 necessary to implement the provisions of this act.

20 ~~SECTION 2. This act shall become effective July 1, 2019.~~

21 ~~SECTION 3. It being immediately necessary for the preservation~~

22 ~~of the public peace, health or safety, an emergency is hereby~~

23 ~~declared to exist, by reason whereof this act shall take effect and~~

24 ~~be in full force from and after its passage and approval.~~

COMMITTEE REPORT BY: COMMITTEE ON APPROPRIATIONS
February 27, 2019 - DO PASS AS AMENDED