

1 STATE OF OKLAHOMA

2 1st Session of the 58th Legislature (2021)

3 HOUSE BILL 2751

By: Baker

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5
6 AS INTRODUCED

7 An Act relating to schools; amending Section 1,
8 Chapter 332, O.S.L. 2019 (70 O.S. Supp. 2020, Section
9 11-103.6m), which relates to computer science
10 programs; adding certain course standards; requiring
11 in-person learning under certain circumstances;
12 requiring computer science courses or instruction for
13 certain grade levels; requiring annual report to the
14 State Board of Education; requiring certain
15 information be posted on website; defining term;
16 amending 70 O.S. 2011, Section 6-185, as last amended
17 by Section 1, Chapter 234, O.S.L. 2019 (70 O.S. Supp.
18 2020, Section 6-185), which relates to the Oklahoma
19 Teacher Preparation Act; requiring the teacher
20 preparation system to include understanding of
21 computer science; and providing an effective date.

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

23 SECTION 1. AMENDATORY Section 1, Chapter 332, O.S.L.
24 2019 (70 O.S. Supp. 2020, Section 11-103.6m), is amended to read as
follows:

Section 11-103.6m A. The State Department of Education shall
develop by December 31, 2019, a rubric for computer science programs
in elementary, middle and high schools to serve as a guide to
schools for implementing quality computer science programs.

1 B. The rubric shall include but not be limited to the following
2 recommendations:

3 1. No less than one computer science course taught by a teacher
4 with a computer science certification at each school site, which may
5 include core content courses where computer science concepts are
6 integrated; and

7 2. Allowing all students to have access to career exploration
8 activities that address how computer science skills are utilized.

9 C. Each course or offering shall be aligned to the Oklahoma
10 Academic Standards for Computer Science and current research-based
11 instructional practices and be of high quality, as defined by the
12 State Board of Education. Each course shall also meet or exceed the
13 standards and curriculum requirements established by the State Board
14 of Education.

15 D. ~~The~~ Except as otherwise provided in this subsection, the
16 provisions of this section shall not be construed to mean that
17 courses may not be taught in a virtual, distance, integrated or
18 other innovative setting. A computer science course offered by a
19 public high school shall be offered in an in-person setting, and be
20 offered as a virtual or distance course option only when a
21 traditional classroom setting is not feasible.

22 E. Beginning in the 2024-2025 school year, each public high
23 school shall offer at least one computer science course.
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1 F. Beginning in the 2024-2025 school year, each public middle
2 school shall offer instruction in exploratory computer science
3 content.

4 G. Beginning in the 2024-2025 school year, each public
5 elementary school shall offer instruction in the basics of computer
6 science content and computational thinking.

7 H. Beginning June 30, 2022, and by each June 30 thereafter,
8 each school district shall submit to the State Board of Education a
9 report for the current academic year which shall include, but not be
10 limited to, the following:

11 1. The names and course codes of computer science courses
12 offered in each school, including course description and which state
13 computer science standards are covered, to the extent such
14 information is available;

15 2. The number and percentage of students who enrolled in each
16 computer science course, disaggregated by:

17 a. gender,

18 b. race and ethnicity,

19 c. special education status including students subject to
20 the federal Individuals with Disabilities Education
21 Act (IDEA) law,

22 d. English language learner status,

23 e. eligibility for the free and reduced price lunch
24 program, and

1 f. grade level,
2 provided that, if a category contains between one and five students,
3 or contains a number that would allow the number of another category
4 that is five or less to be deduced, the number shall be replaced
5 with a symbol;

6 3. The number of computer science instructors at each school,
7 disaggregated by:

8 a. certification, if applicable,

9 b. gender,

10 c. race and ethnicity, and

11 d. highest academic degree.

12 I. The State Board of Education shall post on its website the
13 annual reports required in subsection H of this section on or before
14 July 30 of the year the annual report is received. The posted
15 report shall be disaggregated by school for the data listed in
16 paragraphs 1 and 2 of subsection H of this section. The state shall
17 publicly post aggregate statewide data for the data listed in
18 paragraph 3 of subsection H of this section.

19 J. The State Department of Education shall also publish on its
20 website a list of computer science course codes and names, including
21 course description and which courses align to the state computer
22 science standards.

1 K. As used in this section "computer science" means the study
2 of computers and algorithmic processes, including their principles,
3 hardware and software designs, implementation and impact on society.

4 SECTION 2. AMENDATORY 70 O.S. 2011, Section 6-185, as
5 last amended by Section 1, Chapter 234, O.S.L. 2019 (70 O.S. Supp.
6 2020, Section 6-185), is amended to read as follows:

7 Section 6-185. A. The following competencies and methods shall
8 be incorporated into the programs approved by the Commission for
9 Educational Quality and Accountability for the competency-based
10 teacher preparation system provided for in the Oklahoma Teacher
11 Preparation Act:

12 1. The teacher preparation system shall include, but not be
13 limited to, the following competencies:

- 14 a. excellence in the arts and sciences,
- 15 b. an in-depth knowledge of the subject matter to be
16 taught,
- 17 c. the ability to identify and cultivate talent and
18 potential in students,
- 19 d. an understanding of child and human development,
- 20 e. teaching skills developed through a variety of
21 learning experiences,
- 22 f. the ability to interact effectively with all students,
- 23 g. skills necessary for working with parents, guardians
24 and custodians of students in the education process,

- 1 h. skills necessary to involve the community in
2 education,
3 i. skills to foster teamwork within and among schools,
4 j. for administrators, skills necessary to be an
5 effective leader of a school or school district, ~~and~~
6 k. skills in effective classroom management and student
7 discipline; and
8 l. an understanding of computer science and computational
9 thinking as applied to student learning and classroom
10 instruction that are grade-level and subject-area
11 appropriate.

12 2. The preservice program shall include the following methods
13 to achieve the competencies listed in paragraph 1 of this
14 subsection:

- 15 a. require teacher candidates to study arts and sciences
16 at the undergraduate level,
17 b. require secondary and elementary/secondary teacher
18 candidates to have undergraduate majors, or their
19 equivalents, in a subject area, and require teacher
20 candidates in early childhood, elementary, and special
21 education to have subject area concentrations which
22 allow qualification as a generalist,
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- c. require teacher candidates to study the individuality of students, the capacity of students to learn and the process of learning,
- d. integrate curriculum from other disciplines with the education curriculum,
- e. require teacher candidates to have training experiences and personal contact with parents, guardians or custodians of school-age children,
- f. require teacher candidates to have community involvement experience,
- g. structure courses so as to require teamwork activities, and
- h. require teacher candidates to study, in existing coursework, substance abuse symptoms identification and prevention, mental illness symptoms identification and mental health issues, classroom management skills, trauma-informed responsive instruction and classroom safety and discipline techniques; and

3. The Commission for Educational Quality and Accountability shall not require more than a four-year program of one hundred twenty-four (124) semester hours to complete a teacher education degree.

B. It is the intent of the Legislature that institutions of higher education which offer teacher education programs hold such

1 programs accountable for meeting the certification competencies
2 approved by the State Board of Education. It is the intent of the
3 Legislature that the teacher education programs incorporate a
4 curriculum to achieve the competency-based system and include
5 integration of the teacher preparation curricula with the arts and
6 sciences departments curricula. Each institution of higher
7 education which seeks accreditation or approval for its teacher
8 education program shall develop an institution plan which follows
9 the State Board of Education competencies for certification. In
10 developing such institution plans, the higher education institution
11 shall establish a process which seeks information and input from
12 teacher preparation faculty, faculty from arts and sciences and
13 other programs and disciplines which are appropriate, students
14 within the teacher education program, teachers, administrators,
15 parents, guardians or custodians of students and business and
16 community leaders. Each institution shall report annually to the
17 Commission for Educational Quality and Accountability the procedures
18 used to inform the public regarding the institution's teacher
19 education program and the manner through which public input is
20 solicited and received. The institution's plan shall be accessible
21 to any interested party under the Oklahoma Open Records Act. No
22 institution of higher education's teacher education program shall be
23 approved by the Commission unless the institution plan has been
24 approved by that institution's governing board. The Oklahoma State

1 Regents for Higher Education may facilitate the development of
2 institution plans to assist institutions of higher education.

3 SECTION 3. This act shall become effective November 1, 2021.

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