1	STATE OF OKLAHOMA
2	1st Session of the 59th Legislature (2023)
3	HOUSE BILL 2674 By: Baker
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6	AS INTRODUCED
7	An Act relating to schools; amending 70 O.S. 2021, Section 11-103.6, as amended by Section 51, Chapter
8	228, O.S.L. 2022 (70 O.S. Supp. 2022, Section 11- 103.6), which relates to subject matter standards;
9	including emphasis on certain topics in computer science subject matter standards; modifying computer
10	science college preparatory curriculum requirements; excluding certain courses from eligibility; modifying
11	computer science core curriculum requirements; excluding certain courses from eligibility; amending
12	70 O.S. 2021, Section 11-103.6m, which relates to computer science programs; listing additional
13	information to be included in certain annual report; providing an effective date; and declaring an
14	emergency.
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17	BE IT ENACTED BY THE PEOPLE OF THE STATE OF OKLAHOMA:
18	SECTION 1. AMENDATORY 70 O.S. 2021, Section 11-103.6, as
19	amended by Section 51, Chapter 228, O.S.L. 2022 (70 O.S. Supp. 2022,
20	Section 11-103.6), is amended to read as follows:
21	Section 11-103.6 A. 1. The State Board of Education shall
22	adopt subject matter standards for instruction of students in the
23	public schools of this state that are necessary to ensure there is
24	attainment of desired levels of competencies in a variety of areas

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to include language, mathematics, science, social studies,
 communication, and health and physical education.

2. School districts shall develop and implement curriculum, 4 courses and instruction in order to ensure that students meet the 5 skills and competencies as set forth in this section and in the 6 subject matter standards adopted by the State Board of Education.

7 3. All students shall gain literacy at the elementary and secondary levels. Students shall develop skills in reading, 8 9 writing, speaking, computing and critical thinking. For purposes of 10 this section, critical thinking means a manner of analytical 11 thinking which is logical and uses linear factual analysis to reach 12 a conclusion. They shall learn about cultures and environments -13 their own and those of others with whom they share the earth. All 14 students shall receive the instruction needed to lead healthy and 15 physically active lifestyles. Students, therefore, shall study 16 social studies, literature, languages, the arts, health, mathematics 17 and science. Such curricula shall provide for the teaching of a 18 hands-on career exploration program in cooperation with technology 19 center schools.

4. The subject matter standards shall be designed to teach the
competencies for which students shall be tested as provided in
Section 1210.508 of this title, and shall be designed to prepare all
students for active citizenship, employment and/or successful

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completion of postsecondary education without the need for remedial
 coursework at the postsecondary level.

3 5. The subject matter standards shall be designed with rigor as4 defined in paragraph 3 of subsection G of this section.

5 6. The subject matter standards for English Language Arts shall
6 give Classic Literature and nonfiction literature equal
7 consideration to other literature. In addition, emphasis shall be
8 given to the study of complete works of literature.

9 7. At a minimum, the subject matter standards for mathematics 10 shall require mastery of the standard algorithms in mathematics, 11 which is the most logical, efficient way of solving a problem that 12 consistently works, and for students to attain fluency in Euclidian 13 geometry.

14 The subject matter standards for history, social studies and 8. 15 United States Government shall include study of important historical 16 documents, including the United States Constitution, Declaration of 17 Independence, Emancipation Proclamation, Federalist Papers and other 18 documents with significant history and heritage of the United 19 States, and the content of the United States naturalization test, 20 with an emphasis on the specific content of the test and the ideas 21 and concepts it references. Beginning with the 2022-2023 school 22 year, the United States naturalization test shall be administered in 23 accordance with subsection F of this section.

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9. The subject matter standards for United States Government shall include an emphasis on civics, the structure and relationship between the national, state, county and local governments and simulations of the democratic process. For the purposes of this section, "civics" means the study of the rights and duties of Oklahoma and United States citizens and of how those governments work.

8 10. <u>The subject matter standards for computer science shall</u> 9 <u>include an emphasis on computing systems, networks and the Internet,</u> 10 <u>data and analysis, algorithms and programming, and impacts of</u> 11 <u>computing.</u>

12 11. The subject matter standards for health and physical 13 education shall include but not be limited to the domains of 14 physical, emotional, social and intellectual health. Health 15 literacy shall include the ability to obtain, process and understand 16 basic health information and services needed to make appropriate 17 health decisions. Health shall also include the importance of 18 proper nutrition and exercise, mental health and wellness, substance 19 abuse, coping skills for understanding and managing trauma, 20 establishing and maintaining positive relationships and responsible 21 decision making. Physical literacy shall include the ability to 22 move with competence and confidence in a wide variety of physical 23 activities in multiple environments that benefit the healthy 24 development of the whole person.

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B. Subject to the provisions of subsection C of this section,
in order to graduate from a public high school accredited by the
State Board of Education with a standard diploma, students shall
complete the following college preparatory/work ready curriculum
units or sets of competencies at the secondary level:

Four units or sets of competencies of English to include
Grammar, Composition, Literature, or any English course approved for
college admission requirements;

9 2. Three units or sets of competencies of mathematics, limited
10 to Algebra I, Algebra II, Geometry, Trigonometry, Math Analysis,
11 Calculus, Advanced Placement Statistics, or any mathematics course
12 with content and/or rigor above Algebra I and approved for college
13 admission requirements;

14 3. Three units or sets of competencies of laboratory science 15 approved for college admission requirements including one unit or 16 set of competencies of life science meeting the standards for 17 Biology I; one unit or set of competencies of physical science, 18 meeting the standards for Physical Science, Chemistry or Physics; 19 and one unit or set of competencies from the domains of physical 20 science, life science or earth and space science such that the 21 content and rigor is above Biology I or Physical Science;

4. Three units or sets of competencies of history and
citizenship skills, including one unit of American History, one-half
unit of Oklahoma History, one-half unit of United States Government

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and one unit from the subjects of History, Government, Geography,
 Economics, Civics, or non-Western culture and approved for college
 admission requirements;

4 5. Two units or sets of competencies of the same world or non-5 English language or two units of computer technology science or technology, engineering, aerospace, or aviation approved for college 6 7 admission requirements, whether taught at a high school or a technology center school, including computer programming, hardware, 8 9 and business computer applications, such as. Beginning with the 10 2024-2025 school year, word processing, databases, spreadsheets, and 11 graphics, excluding courses shall be excluded in addition to 12 keyboarding or typing courses;

6. One additional unit or set of competencies selected from
paragraphs 1 through 5 of this subsection or career and technology
education courses, concurrently enrolled courses, Advanced Placement
courses or International Baccalaureate courses approved for college
admission requirements; and

18 7. One unit or set of competencies of fine arts, such as music,19 art, or drama, or one unit or set of competencies of speech.

C. In lieu of the requirements of subsection B of this section which requires a college preparatory/work ready curriculum, a student may enroll in the core curriculum as provided in subsection D of this section upon written approval of the parent or legal guardian of the student. For students under the age of eighteen

(18) school districts shall require a parent or legal guardian of the student to meet with a designee of the school prior to enrollment in the core curriculum. The State Department of Education shall develop and distribute to school districts a form suitable for this purpose, which shall include information on the benefits to students of completing the college preparatory/work ready curriculum as provided for in subsection B of this section.

D. For those students subject to the requirements of subsection
C of this section, in order to graduate from a public high school
accredited by the State Board of Education with a standard diploma,
students shall complete the following core curriculum units or sets
of competencies at the secondary level:

Language Arts - Four units or sets of competencies, to
 consist of one unit or set of competencies of grammar and
 composition, and three units or sets of competencies which may
 include, but are not limited to, the following courses:

- 17 a. American Literature,
- 18 b. English Literature,
- 19 c. World Literature,
- 20 d. Advanced English Courses, or
- e. other English courses with content and/or rigor equal
  to or above grammar and composition;

23 2. Mathematics - Three units or sets of competencies to consist
24 of one unit or set of competencies of Algebra I or Algebra I taught

1	in a contextu	al methodology, and two units or sets of competencies
2	which may inc	lude, but are not limited to, the following courses:
3	a.	Algebra II,
4	b.	Geometry or Geometry taught in a contextual
5		methodology,
6	с.	Trigonometry,
7	d.	Math Analysis or Precalculus,
8	e.	Calculus,
9	f.	Statistics and/or Probability,
10	g.	Computer Science or acceptance and successful
11		completion of one (1) year of a full-time, three-hour
12		career and technology program leading to an industry
13		credential/certificate or college credit. The State
14		Board of Career and Technology Education shall
15		promulgate rules to define the provisions of this
16		section related to the accepted industry-valued
17		credentials which are industry-endorsed or industry-
18		aligned. The list of accepted industry-valued
19		credentials shall be reviewed annually and updated at
20		least every three (3) years by the Board,
21	h.	(1) contextual mathematics courses which enhance
22		technology preparation, or
23		(2) a science, technology, engineering and math
24		(STEM) block course meeting the requirements for

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course competencies listed in paragraph 2 of subsection B of this section, whether taught at a:

4 (a) comprehensive high school, or
5 (b) technology center school when taken in the
6 tenth, eleventh or twelfth grade, taught by
7 a certified teacher, and approved by the
8 State Board of Education and the independent
9 district board of education,

10 i. mathematics courses taught at a technology center 11 school by a teacher certified in the secondary subject 12 area when taken in the tenth, eleventh or twelfth 13 grade upon approval of the State Board of Education 14 and the independent district board of education, or 15 j. any other mathematics course with content and/or rigor 16 equal to or above Algebra I;

3. Science - Three units or sets of competencies to consist of one unit or set of competencies of Biology I or Biology I taught in a contextual methodology, and two units or sets of competencies in the areas of life, physical, or earth science or technology which may include, but are not limited to, the following courses:

- 22 a. Chemistry I,
- 23 b. Physics,
- 24 c. Biology II,

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1	d.	Chemistry II,
2	e.	Physical Science,
3	f.	Earth Science,
4	g.	Botany,
5	h.	Zoology,
6	i.	Physiology,
7	j.	Astronomy,
8	k.	Applied Biology/Chemistry,
9	1.	Applied Physics,
10	m.	Principles of Technology,
11	n.	qualified agricultural education courses,
12	0.	(1) contextual science courses which enhance
13		technology preparation, or
14		(2) a science, technology, engineering and math
15		(STEM) block course meeting the requirements for
16		course competencies listed in paragraph 3 of
17		subsection B of this section, whether taught at
18		a:
19		(a) comprehensive high school, or
20		(b) technology center school when taken in the
21		tenth, eleventh or twelfth grade, taught by
22		a certified teacher, and approved by the
23		State Board of Education and the independent
24		district board of education,

1 science courses taught at a technology center school р. 2 by a teacher certified in the secondary subject area when taken in the tenth, eleventh or twelfth grade 3 4 upon approval of the State Board of Education and the 5 independent district board of education, or other science courses with content and/or rigor equal 6 q. 7 to or above Biology I; 4. Social Studies - Three units or sets of competencies, to 8 9 consist of one unit or set of competencies of United States History, 10 one-half to one unit or set of competencies of United States 11 Government, one-half unit or set of competencies of Oklahoma 12 History, and one-half to one unit or set of competencies which may 13 include, but are not limited to, the following courses: 14 a. World History, 15 b. Geography, 16 Economics, с. 17 d. Anthropology, or 18 other social studies courses with content and/or rigor e. 19 equal to or above United States History, United States 20 Government, and Oklahoma History; 21 5. Arts - One unit or set of competencies which may include, 22 but is not limited to, courses in Visual Arts and General Music; and 23 6. Computer Education or World Language - One unit or set of 24 competencies of computer technology science or technology,

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engineering, aerospace, or aviation, whether taught at a high school or a technology center school, including computer programming, hardware and business computer applications, such as and beginning with the 2024-2025 school year shall exclude word processing, databases, spreadsheets and graphics, excluding courses in addition to keyboarding or typing courses, or one unit or set of competencies of world or non-English language.

In addition to the curriculum requirements of either 8 E. 1. 9 subsection B or D of this section, in order to graduate from a 10 public high school accredited by the State Board of Education 11 students shall complete the requirements for a personal financial 12 literacy passport as set forth in the Passport to Financial Literacy 13 Act and any additional course requirements or recommended elective 14 courses as may be established by the State Board of Education and 15 the district school board. School districts shall strongly 16 encourage students to complete two units or sets of competencies of 17 world languages and two units or sets of competencies of physical 18 and health education.

No student shall receive credit for high school graduation
 more than once for completion of the same unit or set of
 competencies to satisfy the curriculum requirements of this section.

3. A school district shall not be required to offer every course listed in subsections B and D of this section but shall offer 24 sufficient courses to allow a student to meet the graduation
 requirements during the secondary grade years of the student.

F. 1. In addition to the curriculum requirements of either subsection B or D of this section, beginning with ninth graders in the 2021-22 school year, in order to graduate from a public high school accredited by the State Board of Education, students shall pass the United States naturalization test pursuant to the provisions of this subsection.

9 2. School districts shall offer the United States
10 naturalization test to students at least once per school year,
11 beginning as early as eighth grade at the discretion of the school
12 district; provided, any student may retake the exam upon request,
13 and as often as desired, until earning a passing score. For
14 purposes of this subsection, a passing score shall be 60 out of 100
15 questions.

3. School districts shall exempt students with disabilities whose individualized education program (IEP), consistent with state law, indicates that the student is to be assessed with alternate achievement standards through the Oklahoma Alternate Assessment Program (OAAP).

21 G. For purposes of this section:

1. "Contextual methodology" means academic content and skills taught by utilizing real-world problems and projects in a way that helps students understand the application of that knowledge;

2. "Qualified agricultural education courses" means courses 1 2 that have been determined by the State Board of Education to offer the sets of competencies for one or more science content areas and 3 4 which correspond to academic science courses. Qualified 5 agricultural education courses shall include, but are not limited to, Horticulture, Plant and Soil Science, Natural Resources and 6 7 Environmental Science, and Animal Science. The courses shall be taught by teachers certified in agricultural education and comply 8 9 with all rules of the Oklahoma Department of Career and Technology 10 Education;

3. "Rigor" means a level of difficulty that is thorough,
 exhaustive and accurate and is appropriate for the grade level;

4. "Sets of competencies" means instruction in those skills and
competencies that are specified in the subject matter standards
adopted by the State Board of Education and other skills and
competencies adopted by the Board, without regard to specified
instructional time; and

18 5. "Unit" means a Carnegie Unit as defined by the North Central19 Association's Commission on Schools.

H. 1. The State Board of Education shall adopt a plan to ensure that rigor is maintained in the content, teaching methodology, level of expectations for student achievement, and application of learning in all the courses taught to meet the graduation requirements as specified in this section.

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1 2. The State Board of Education shall allow as much flexibility 2 at the district level as is possible without diminishing the rigor or undermining the intent of providing these courses. To accomplish 3 4 this purpose, the State Department of Education shall work with 5 school districts in reviewing and approving courses taught by districts that are not specifically listed in subsections B and D of 6 7 this section. Options may include, but shall not be limited to, courses taken by concurrent enrollment, advanced placement, or 8 9 correspondence, or courses bearing different titles.

10 3. The State Board of Education shall approve an advanced 11 placement computer science course to meet the requirements of course 12 competencies listed in paragraph 2 of subsection B of this section 13 if the course is taken in a student's senior year and the student is 14 concurrently enrolled in or has successfully completed Algebra II.

15 Technology center school districts may offer programs 4. 16 designed in cooperation with institutions of higher education which 17 have an emphasis on a focused field of career study upon approval of 18 the State Board of Education and the independent district board of 19 education. Students in the tenth grade may be allowed to attend 20 these programs for up to one-half (1/2) of a school day and credit 21 for the units or sets of competencies required in paragraphs 2, 3 22 and 6 of subsection B or D of this section shall be given if the 23 courses are taught by a teacher certified in the secondary subject area; provided, credit for units or sets of competencies pursuant to 24

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subsection B of this section shall be approved for college admission
 requirements.

5. If a student enrolls in a concurrent course, the school 3 4 district shall not be responsible for any costs incurred for that 5 course, unless the school district does not offer enough course selection during the student's secondary grade years to allow the 6 7 student to receive the courses needed to meet the graduation requirements of this section. If the school district does not offer 8 9 the necessary course selection during the student's secondary grade 10 years, it shall be responsible for the cost of resident tuition at 11 an institution in The Oklahoma State System of Higher Education, 12 fees, and books for the concurrent enrollment course, and providing 13 for transportation to and from the institution to the school site.

14 It is the intent of the Legislature that for students enrolled 15 in a concurrent enrollment course which is paid for by the school 16 district pursuant to this paragraph, the institution charge only the 17 supplementary and special service fees that are directly related to 18 the concurrent enrollment course and enrollment procedures for that 19 student. It is further the intent of the Legislature that fees for 20 student activities and student service facilities, including the 21 student health care and cultural and recreational service fees, not 22 be charged to such students.

23 6. Credit for the units or sets of competencies required in
24 subsection B or D of this section shall be given when such units or

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sets of competencies are taken prior to ninth grade if the teachers
 are certified or authorized to teach the subjects for high school
 credit and the required rigor is maintained.

7. The three units or sets of competencies in mathematics 4 5 required in subsection B or D of this section shall be completed in the ninth through twelfth grades. If a student completes any 6 7 required courses or sets of competencies in mathematics prior to ninth grade, the student may take any other mathematics courses or 8 9 sets of competencies to fulfill the requirement to complete three 10 units or sets of competencies in grades nine through twelve after 11 the student has satisfied the requirements of subsection B or D of 12 this section.

8. All units or sets of competencies required for graduation
 may be taken in any sequence recommended by the school district.

I. As a condition of receiving accreditation from the State Board of Education, all students in grades nine through twelve shall enroll in a minimum of six periods, or the equivalent in block scheduling or other scheduling structure that allows for instruction in sets of competencies, of rigorous academic and/or rigorous vocational courses each day, which may include arts, vocal and instrumental music, speech classes, and physical education classes.

J. 1. Academic and vocational-technical courses designed to offer sets of competencies integrated or embedded within the courses that provide for the teaching and learning of the appropriate skills

and knowledge in the subject matter standards, as adopted by the State Board of Education, may, upon approval of the Board, in consultation with the Oklahoma Department of Career and Technology Education if the courses are offered at a technology center school district, be counted for academic credit and toward meeting the graduation requirements of this section.

7 2. Internet-based courses offered by a technology center school 8 that are taught by a certified teacher and provide for the teaching 9 and learning of the appropriate skills and knowledge in the subject 10 matter standards may, upon approval of the State Board of Education 11 and the independent district board of education, be counted for 12 academic credit and toward meeting the graduation requirements of 13 this section.

14 3. Internet-based courses or vocational-technical courses 15 utilizing integrated or embedded skills for which no subject matter 16 standards have been adopted by the State Board of Education may be 17 approved by the Board, in consultation with the Oklahoma Department 18 of Career and Technology Education if the courses are offered at a 19 technology center school district, if such courses incorporate 20 standards of nationally recognized professional organizations and 21 are taught by certified teachers.

4. Courses offered by a supplemental education organization
that is accredited by a national accrediting body and that are
taught by a certified teacher and provide for the teaching and

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1 learning of the appropriate skills and knowledge in the subject 2 matter standards may, upon approval of the State Board of Education 3 and the school district board of education, be counted for academic 4 credit and toward meeting the graduation requirements of this 5 section.

K. The State Board of Education shall provide an option for
high school graduation based upon attainment of the desired levels
of competencies as required in tests pursuant to the provisions of
Section 1210.508 of this title. Such option shall be in lieu of the
amount of course credits earned.

L. The State Board of Education shall prescribe, adopt and approve a promotion system based on the attainment by students of specified levels of competencies in each area of the core curriculum.

M. Children who have individualized education programs pursuant to the Individuals with Disabilities Education Act (IDEA), and who satisfy the graduation requirements through the individualized education program for that student shall be awarded a standard diploma.

N. Students who enter the ninth grade in or prior to the 2007-08 school year who are enrolled in an alternative education program and meet the requirements of their plans leading to high school graduation developed pursuant to Section 1210.568 of this title shall be awarded a standard diploma.

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O. Any student who completes the curriculum requirements of the
 International Baccalaureate Diploma Program shall be awarded a
 standard diploma.

P. Any student who successfully completes an advanced
mathematics or science course offered pursuant to Section 1210.404
of this title shall be granted academic credit toward meeting the
graduation requirements pursuant to paragraph 2 or 3, as
appropriate, of subsection B or D of this section.

9 Q. For purposes of this section, the courses approved for 10 college admission requirements shall be courses which are approved 11 by the Oklahoma State Regents for Higher Education for admission to 12 an institution within The Oklahoma State System of Higher Education.

13 R. Students who have been denied a standard diploma by the 14 school district in which the student is or was enrolled for failing 15 to meet the requirements of this section may re-enroll in the school 16 district that denied the student a standard diploma following the 17 denial of a standard diploma. The student shall be provided 18 remediation or intervention and the opportunity to complete the 19 curriculum units or sets of competencies required by this section to 20 obtain a standard diploma. Students who re-enroll in the school 21 district to meet the graduation requirements of this section shall 22 be exempt from the hourly instructional requirements of Section 1-23 111 of this title and the six-period enrollment requirements of this 24 section.

S. The State Department of Education shall collect and report
 data by school site and district on the number of students who
 enroll in the core curriculum as provided in subsection D of this
 section.

5 SECTION 2. AMENDATORY 70 O.S. 2021, Section 11-103.6m, 6 is amended to read as follows:

7 Section 11-103.6m A. The State Department of Education shall 8 develop by December 31, 2019, a rubric for computer science programs 9 in elementary, middle and high schools to serve as a guide to 10 schools for implementing quality computer science programs.

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

13 1. No less than one computer science course taught by a teacher 14 with a computer science certification at each school site, which may 15 include core content courses where computer science concepts are 16 integrated; and

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

C. 1. Beginning in the 2024-2025 school year, all public high schools and public charter high schools in this state shall offer a minimum of one computer science course to students.

22 2. Beginning in the 2024-2025 school year, all public middle 23 and elementary schools and public charter middle and elementary 24 schools in this state shall offer instruction aligned to the

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Oklahoma Academic Standards for Computer Science. Instruction may
 be offered through stand-alone computer science courses or through
 integration in other courses.

4 D. Each course or offering required by subsection C of this5 section shall:

6 1. Be aligned to the Oklahoma Academic Standards for Computer
7 Science and current research-based instructional practices;

8 2. Be of high quality, as defined by the State Board of9 Education; and

3. Be offered in an in-person setting or as a virtual or distance course option only when a traditional classroom setting is not feasible.

E. By June 30, 2025, and by June 30 each year thereafter, the State Department of Education shall publish on its website a report regarding computer science courses or content offered at each school and district during the previous school year. The report shall

17 include the, at a minimum:

18 <u>1. The</u> names and course codes of computer science courses 19 offered in each school including a course description, to the extent 20 such information is available;

21 <u>2. The course delivery mode, such as in-person school, career</u> 22 <u>and technology education, virtual school, and other variations or</u> 23 combinations;

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1	3. Educator qualifications including, but not limited to, area
2	of certification, micro-credential, endorsement, highest academic
3	degree, and National Board certification; and
4	4. Aggregate data on the following:
5	a. the number and percentage of students who enrolled in
6	each computer science course, disaggregated by
7	demographics including, but not limited to, special
8	education status, English language learner status,
9	eligibility for free and reduced-price meals, race,
10	and ethnicity, and
11	b. the number of computer science instructors at each
12	school and demographic information, as available.
13	SECTION 3. This act shall become effective July 1, 2023.
14	SECTION 4. It being immediately necessary for the preservation
15	of the public peace, health or safety, an emergency is hereby
16	declared to exist, by reason whereof this act shall take effect and
17	be in full force from and after its passage and approval.
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