

STATE OF OKLAHOMA

2nd Session of the 58th Legislature (2022)

HOUSE BILL 4389

By: Baker

AS INTRODUCED

An Act relating to school curriculum; amending 70 O.S. 2021, Section 11-103.6, which relates to subject matter standards; modifying computer science college preparatory curriculum requirements; requiring course to meet certain standards; excluding certain courses from eligibility; modifying computer science core curriculum requirements; mandating course meet certain standards; excluding certain courses from eligibility; amending 70 O.S. 2021, Section 11-103.6m, which relates to computer science programs; listing additional information to be included in certain annual report; and providing an effective date.

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

SECTION 1. AMENDATORY 70 O.S. 2021, Section 11-103.6, is amended to read as follows:

Section 11-103.6 A. 1. The State Board of Education shall adopt subject matter standards for instruction of students in the public schools of this state that are necessary to ensure there is attainment of desired levels of competencies in a variety of areas to include language, mathematics, science, social studies and communication.

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

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

16        4. The subject matter standards shall be designed to teach the  
17 competencies for which students shall be tested as provided in  
18 Section 1210.508 of this title, and shall be designed to prepare all  
19 students for active citizenship, employment and/or successful  
20 completion of postsecondary education without the need for remedial  
21 coursework at the postsecondary level.

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

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

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

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

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

1 Oklahoma and United States citizens and of how those governments  
2 work.

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

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

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

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

24

1        4. Three units or sets of competencies of history and  
2 citizenship skills, including one unit of American History, one-half  
3 unit of Oklahoma History, one-half unit of United States Government  
4 and one unit from the subjects of History, Government, Geography,  
5 Economics, Civics, or non-Western culture and approved for college  
6 admission requirements;

7        5. Two units or sets of competencies of the same ~~foreign world~~  
8 or non-English language or two units of computer ~~technology approved~~  
9 ~~for college admission requirements~~ science. Eligible computer  
10 science courses, whether taught at a high school or a technology  
11 center school, ~~including computer programming, hardware, and~~  
12 ~~business computer applications, such as word processing, databases,~~  
13 ~~spreadsheets, and graphics, excluding~~ shall minimally address Level  
14 I standards as defined in the Oklahoma Academic Standards for  
15 Computer Science and be approved for college admission requirements.  
16 Computer science shall exclude keyboarding ~~or~~, typing, graphics, and  
17 computer applications such as word processing and presentations  
18 courses;

19        6. One additional unit or set of competencies selected from  
20 paragraphs 1 through 5 of this subsection or career and technology  
21 education courses, concurrently enrolled courses, Advanced Placement  
22 courses or International Baccalaureate courses approved for college  
23 admission requirements; and  
24

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

3        C. In lieu of the requirements of subsection B of this section  
4 which requires a college preparatory/work ready curriculum, a  
5 student may enroll in the core curriculum as provided in subsection  
6 D of this section upon written approval of the parent or legal  
7 guardian of the student. For students under the age of eighteen  
8 (18) school districts shall require a parent or legal guardian of  
9 the student to meet with a designee of the school prior to  
10 enrollment in the core curriculum. The State Department of  
11 Education shall develop and distribute to school districts a form  
12 suitable for this purpose, which shall include information on the  
13 benefits to students of completing the college preparatory/work  
14 ready curriculum as provided for in subsection B of this section.

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

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

24            a. American Literature,

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

2. Mathematics - Three units or sets of competencies, to consist of one unit or set of competencies of Algebra I or Algebra I taught in a contextual methodology, and two units or sets of competencies which may include, but are not limited to, the following courses:

- a. Algebra II,
- b. Geometry or Geometry taught in a contextual methodology,
- c. Trigonometry,
- d. Math Analysis or Precalculus,
- e. Calculus,
- f. Statistics and/or Probability,
- g. Computer Science or acceptance and successful completion of one (1) year of a full-time, three-hour career and technology program leading to an industry credential/certificate or college credit. The State Board of Career and Technology Education shall promulgate rules to define the provisions of this act related to the accepted industry-valued credentials

1 which are industry-endorsed or industry-aligned. The  
2 list of accepted industry-valued credentials shall be  
3 reviewed annually and updated at least every three (3)  
4 years by the Board,

- 5 h. (1) contextual mathematics courses which enhance  
6 technology preparation, or  
7 (2) a science, technology, engineering and math  
8 (STEM) block course meeting the requirements for  
9 course competencies listed in paragraph 2 of  
10 subsection B of this section, whether taught at  
11 a:
  - 12 (a) comprehensive high school, or
  - 13 (b) technology center school when taken in the  
14 tenth, eleventh or twelfth grade, taught by  
15 a certified teacher, and approved by the  
16 State Board of Education and the independent  
17 district board of education,
- 18 i. mathematics courses taught at a technology center  
19 school by a teacher certified in the secondary subject  
20 area when taken in the tenth, eleventh or twelfth  
21 grade upon approval of the State Board of Education  
22 and the independent district board of education, or
- 23 j. any other mathematics course with content and/or rigor  
24 equal to or above Algebra I;



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

- 6            a. Chemistry I,
- 7            b. Physics,
- 8            c. Biology II,
- 9            d. Chemistry II,
- 10           e. Physical Science,
- 11           f. Earth Science,
- 12           g. Botany,
- 13           h. Zoology,
- 14           i. Physiology,
- 15           j. Astronomy,
- 16           k. Applied Biology/Chemistry,
- 17           l. Applied Physics,
- 18           m. Principles of Technology,
- 19           n. qualified agricultural education courses,
- 20           o. (1) contextual science courses which enhance  
21                   technology preparation, or  
22                   (2) a science, technology, engineering and math  
23                   (STEM) block course meeting the requirements for  
24                   course competencies listed in paragraph 3 of

subsection B of this section, whether taught at  
a:

(a) comprehensive high school, or

(b) technology center school when taken in the  
tenth, eleventh or twelfth grade, taught by  
a certified teacher, and approved by the  
State Board of Education and the independent  
district board of education,

p. science courses taught at a technology center school  
by a teacher certified in the secondary subject area  
when taken in the tenth, eleventh or twelfth grade  
upon approval of the State Board of Education and the  
independent district board of education, or

q. other science courses with content and/or rigor equal  
to or above Biology I;

4. Social Studies - Three units or sets of competencies, to  
consist of one unit or set of competencies of United States History,  
one-half to one unit or set of competencies of United States  
Government, one-half unit or set of competencies of Oklahoma  
History, and one-half to one unit or set of competencies which may  
include, but are not limited to, the following courses:

a. World History,

b. Geography,

c. Economics,

1           d.    Anthropology, or

2           e.    other social studies courses with content and/or rigor  
3                equal to or above United States History, United States  
4                Government, and Oklahoma History;

5           5.    Arts - One unit or set of competencies which may include,  
6           but is not limited to, courses in Visual Arts and General Music; and

7           6.    Computer ~~Education~~ Science or World Language - One unit or  
8           set of competencies of computer ~~technology~~ science, whether taught  
9           at a high school or a technology center school, ~~including computer~~  
10          ~~programming, hardware and business computer applications, such as~~  
11          ~~word processing, databases, spreadsheets and graphics, minimally~~  
12          addressing Level I standards as defined in the Oklahoma Academic  
13          Standards for Computer Science, excluding keyboarding or, typing,  
14          computer or web graphic design, and computer applications such as  
15          word processing and presentations courses, or one unit or set of  
16          competencies of ~~foreign~~ world or non-English language.

17          E.    1.   In addition to the curriculum requirements of either  
18          subsection B or D of this section, in order to graduate from a  
19          public high school accredited by the State Board of Education  
20          students shall complete the requirements for a personal financial  
21          literacy passport as set forth in the Passport to Financial Literacy  
22          Act and any additional course requirements or recommended elective  
23          courses as may be established by the State Board of Education and  
24          the district school board. School districts shall strongly

1 encourage students to complete two units or sets of competencies of  
2 ~~foreign~~ world languages and two units or sets of competencies of  
3 physical and health education.

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

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

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

17 2. School districts shall offer the United States  
18 naturalization test to students at least once per school year,  
19 beginning as early as eighth grade at the discretion of the school  
20 district; provided, any student may retake the exam upon request,  
21 and as often as desired, until earning a passing score. For  
22 purposes of this subsection, a passing score shall be 60 out of 100  
23 questions.

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

6        G. For purposes of this section:

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

10       2. "Qualified agricultural education courses" means courses  
11 that have been determined by the State Board of Education to offer  
12 the sets of competencies for one or more science content areas and  
13 which correspond to academic science courses. Qualified  
14 agricultural education courses shall include, but are not limited  
15 to, Horticulture, Plant and Soil Science, Natural Resources and  
16 Environmental Science, and Animal Science. The courses shall be  
17 taught by teachers certified in agricultural education and comply  
18 with all rules of the Oklahoma Department of Career and Technology  
19 Education;

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

22       4. "Sets of competencies" means instruction in those skills and  
23 competencies that are specified in the subject matter standards  
24 adopted by the State Board of Education and other skills and

competencies adopted by the Board, without regard to specified instructional time; and

5. "Unit" means a Carnegie Unit as defined by the North Central 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.

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

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

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

13        5. If a student enrolls in a concurrent course, the school  
14 district shall not be responsible for any costs incurred for that  
15 course, unless the school district does not offer enough course  
16 selection during the student's secondary grade years to allow the  
17 student to receive the courses needed to meet the graduation  
18 requirements of this section. If the school district does not offer  
19 the necessary course selection during the student's secondary grade  
20 years, it shall be responsible for the cost of resident tuition at  
21 an institution in The Oklahoma State System of Higher Education,  
22 fees, and books for the concurrent enrollment course, and providing  
23 for transportation to and from the institution to the school site.

1       It is the intent of the Legislature that for students enrolled  
2 in a concurrent enrollment course which is paid for by the school  
3 district pursuant to this paragraph, the institution charge only the  
4 supplementary and special service fees that are directly related to  
5 the concurrent enrollment course and enrollment procedures for that  
6 student. It is further the intent of the Legislature that fees for  
7 student activities and student service facilities, including the  
8 student health care and cultural and recreational service fees, not  
9 be charged to such students.

10       6. Credit for the units or sets of competencies required in  
11 subsection B or D of this section shall be given when such units or  
12 sets of competencies are taken prior to ninth grade if the teachers  
13 are certified or authorized to teach the subjects for high school  
14 credit and the required rigor is maintained.

15       7. The three units or sets of competencies in mathematics  
16 required in subsection B or D of this section shall be completed in  
17 the ninth through twelfth grades. If a student completes any  
18 required courses or sets of competencies in mathematics prior to  
19 ninth grade, the student may take any other mathematics courses or  
20 sets of competencies to fulfill the requirement to complete three  
21 units or sets of competencies in grades nine through twelve after  
22 the student has satisfied the requirements of subsection B or D of  
23 this section.



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

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

10       J. 1. Academic and vocational-technical courses designed to  
11 offer sets of competencies integrated or embedded within the courses  
12 that provide for the teaching and learning of the appropriate skills  
13 and knowledge in the subject matter standards, as adopted by the  
14 State Board of Education, may, upon approval of the Board, in  
15 consultation with the Oklahoma Department of Career and Technology  
16 Education if the courses are offered at a technology center school  
17 district, be counted for academic credit and toward meeting the  
18 graduation requirements of this section.

19       2. Internet-based courses offered by a technology center school  
20 that are taught by a certified teacher and provide for the teaching  
21 and learning of the appropriate skills and knowledge in the subject  
22 matter standards may, upon approval of the State Board of Education  
23 and the independent district board of education, be counted for  
24

1 academic credit and toward meeting the graduation requirements of  
2 this section.

3 3. Internet-based courses or vocational-technical courses  
4 utilizing integrated or embedded skills for which no subject matter  
5 standards have been adopted by the State Board of Education may be  
6 approved by the Board, in consultation with the Oklahoma Department  
7 of Career and Technology Education if the courses are offered at a  
8 technology center school district, if such courses incorporate  
9 standards of nationally recognized professional organizations and  
10 are taught by certified teachers.

11 4. Courses offered by a supplemental education organization  
12 that is accredited by a national accrediting body and that are  
13 taught by a certified teacher and provide for the teaching and  
14 learning of the appropriate skills and knowledge in the subject  
15 matter standards may, upon approval of the State Board of Education  
16 and the school district board of education, be counted for academic  
17 credit and toward meeting the graduation requirements of this  
18 section.

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

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

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

10 N. Students who enter the ninth grade in or prior to the 2007-  
11 08 school year who are enrolled in an alternative education program  
12 and meet the requirements of their plans leading to high school  
13 graduation developed pursuant to Section 1210.568 of this title  
14 shall be awarded a standard diploma.

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

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

23 Q. For purposes of this section, the courses approved for  
24 college admission requirements shall be courses which are approved

1 by the Oklahoma State Regents for Higher Education for admission to  
2 an institution within The Oklahoma State System of Higher Education.

3 R. Students who have been denied a standard diploma by the  
4 school district in which the student is or was enrolled for failing  
5 to meet the requirements of this section may re-enroll in the school  
6 district that denied the student a standard diploma following the  
7 denial of a standard diploma. The student shall be provided  
8 remediation or intervention and the opportunity to complete the  
9 curriculum units or sets of competencies required by this section to  
10 obtain a standard diploma. Students who re-enroll in the school  
11 district to meet the graduation requirements of this section shall  
12 be exempt from the hourly instructional requirements of Section 1-  
13 111 of this title and the six-period enrollment requirements of this  
14 section.

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

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

21 Section 11-103.6m A. The State Department of Education shall  
22 develop by December 31, 2019, a rubric for computer science programs  
23 in elementary, middle and high schools to serve as a guide to  
24 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. 1. Beginning in the 2024-2025 school year, all public high  
10 schools and public charter high schools in this state shall offer a  
11 minimum of one computer science course to students.

12 2. Beginning in the 2024-2025 school year, all public middle  
13 and elementary schools and public charter middle and elementary  
14 schools in this state shall offer instruction aligned to the  
15 Oklahoma Academic Standards for Computer Science. Instruction may  
16 be offered through stand-alone computer science courses or through  
17 integration in other courses.

18 D. Each course or offering required by subsection C of this  
19 section shall:

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

22 2. Be of high quality, as defined by the State Board of  
23 Education; and  
24

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

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

9        1. The names and course codes of computer science courses  
10 offered in each school including a course description, to the extent  
11 such information is available;

12        2. The course delivery mode, such as in-person school, career  
13 and technology education, virtual school, and other variations or  
14 combinations;

15        3. Educator qualifications including, but not limited to, area  
16 of certification, micro-credential, endorsement, and National Board  
17 certification; and

18        4. Aggregate data on the following:

19        a. the number and percentage of students who enrolled in  
20 each computer science course, disaggregated by  
21 demographics including, but not limited to, special  
22 education status, English language learner status,  
23 eligibility for free and reduced-price meals, race,  
24 and ethnicity, unless a category contains five or less

1                   students or contains an amount that would allow the  
2                   amount of another category that is five or less to be  
3                   deduced, in which case the number shall be replaced  
4                   with a symbol, and

5           b.   the number of computer science instructors at each  
6           school, disaggregated by certification, demographic  
7           information, and highest academic degree.

8       SECTION 3.   This act shall become effective November 1, 2022.

9  
10       58-2-9505           EK           01/19/22