

House _____ Amendment NO. _____

Offered By _____

1 AMEND House Bill No. 3, Page 5, Section 170.018, Line 83, by inserting after all of said section
2 and line the following:

3
4 "170.032. 1. As used in this section, unless the context otherwise requires, the following
5 terms mean:

6 (1) "Granting local education provider", a school district or charter school that chooses to
7 grant a STEM diploma endorsement to a student who demonstrates mastery in the STEM disciplines
8 as described in this section;

9 (2) "STEM", the combination of the disciplines of science, technology, engineering, and
10 mathematics.

11 2. A school district or charter school may grant a diploma endorsement in STEM to a
12 graduating high school student who demonstrates mastery in the STEM disciplines. To obtain a
13 diploma endorsement in STEM, a graduating student shall:

14 (1) Meet the minimum high school graduation requirements at a high level of proficiency as
15 specified by the granting local education provider;

16 (2) Successfully complete, with a grade point average of at least three and one-half on a
17 four-point scale or equivalent, a coherent sequence of at least four courses in the areas of science,
18 technology, engineering, and mathematics as determined by the granting local education provider,
19 which courses are in addition to the minimum graduation requirements in these areas;

20 (3) Demonstrate proficiency in mathematics by:

21 (a) Achieving a score of twenty-eight or higher on the mathematics portion of the ACT
22 college readiness assessment;

23 (b) Achieving a score of six hundred or higher on the mathematics portion of the college
24 readiness assessment provided by the College Board, commonly known as the SAT;

25 (c) Achieving a score of five or higher on the mathematics portion of the international
26 baccalaureate test;

27 (d) Achieving a score of four or higher on the advanced placement mathematics assessment;

28 (e) Achieving a score of one hundred or higher on the suite of tests that assesses reading,
29 writing, mathematics, and computer skills provided by the College Board for college placement
30 purposes, commonly known as the Accuplacer; or

31 (f) Achieving a score of eighty-five or higher on the Armed Services Vocational Aptitude
32 Battery; and

33 (4) Successfully complete a final capstone project, which is a culminating exhibition of the
34 student's project or experience that demonstrates academic and intellectual learning. To successfully
35 complete a final capstone project, the student shall achieve a high proficiency level of mastery, as
36 set by the granting local education provider, for each of the following competencies:

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1 (a) Inquiry-based learning, which is demonstrated through the capstone project by asking
2 questions and defining problems;

3 (b) Creative problem-solving, which is demonstrated through the capstone project by
4 developing and applying scientific and mathematical models to explain complex ideas and solutions;

5 (c) Experimentation, which is demonstrated through the capstone project by planning and
6 carrying out investigations;

7 (d) Critical thinking, which is demonstrated through the capstone project by analyzing and
8 interpreting data and communicating conclusions;

9 (e) Deductive and inductive reasoning, which is demonstrated through the capstone project
10 by using mathematics and computational thinking;

11 (f) Understanding of engineering principles, which is demonstrated through the capstone
12 project by constructing explanations and designing solutions; and

13 (g) Effective communication skills, which are demonstrated through the capstone project by
14 engaging in argument from evidence.

15 3. Each granting local education provider shall work with STEM-related business and
16 industrial leaders identified by the granting local education provider within the surrounding
17 communities and with appropriate institutions of higher education to establish the high proficiency
18 levels of mastery that a student shall demonstrate in each of the competencies described in
19 subdivision (4) of subsection 2 of this section.

20 4. Each granting local education provider shall annually provide to each student enrolled in
21 grades six through twelve, and each student's parents or guardians, information concerning the
22 requirements for obtaining the STEM diploma endorsement."; and

23
24 Further amend said bill by amending the title, enacting clause, and intersectional references
25 accordingly.