

SENATE BILL 300

F1, F2

8lr0141
CF HB 350

By: **The President (By Request – Administration) and Senators Bates, Cassilly, Eckardt, Edwards, Hershey, Hough, Jennings, Kagan, Klausmeier, Mathias, Ready, Reilly, Serafini, and Simonaire**

Introduced and read first time: January 22, 2018

Assigned to: Education, Health, and Environmental Affairs

A BILL ENTITLED

1 AN ACT concerning

2 **Achieving Computer Science Collaborations for Employing Students Statewide**
3 **(ACCESS) Act of 2018**

4 FOR the purpose of requiring the State Board of Education to develop and adopt content
5 standards for computer science education for certain grades; requiring the State
6 Board to consult with certain persons in developing certain standards; requiring the
7 State Department of Education to develop a certain implementation plan; requiring
8 certain high schools to offer a certain computer science course beginning in a certain
9 school year; requiring certain middle schools to offer computer science education
10 beginning in a certain school year; requiring certain elementary schools to offer a
11 certain curriculum beginning in a certain school year; establishing the Maryland
12 Center for Computing Education in the University System of Maryland; requiring
13 the Center to perform certain duties; requiring the Governor to appoint the
14 Executive Director of the Center; providing for the duties of the Executive Director
15 of the Center; establishing the Maryland Center for Computer Education Advisory
16 Board; providing for the composition, terms, and removal of members of the Advisory
17 Board; requiring the Executive Director of the Center to appoint members of the
18 Advisory Board in consultation with the Governor; providing that members of the
19 Advisory Board are prohibited from receiving certain compensation but entitled to
20 certain reimbursement; and generally relating to computer science education
21 standards and the Maryland Center for Computing Education.

22 BY adding to

23 Article – Education

24 Section 7–125 and 12–118

25 Annotated Code of Maryland

26 (2014 Replacement Volume and 2017 Supplement)

27 SECTION 1. BE IT ENACTED BY THE GENERAL ASSEMBLY OF MARYLAND,

EXPLANATION: CAPITALS INDICATE MATTER ADDED TO EXISTING LAW.

[Brackets] indicate matter deleted from existing law.



1 That the Laws of Maryland read as follows:

2 **Article – Education**

3 **7–125.**

4 **(A) (1) ON OR BEFORE NOVEMBER 30, 2018, THE STATE BOARD SHALL**
5 **DEVELOP AND ADOPT CONTENT STANDARDS FOR COMPUTER SCIENCE EDUCATION**
6 **IN KINDERGARTEN THROUGH GRADE 12.**

7 **(2) IN DEVELOPING THE STANDARDS REQUIRED UNDER PARAGRAPH**
8 **(1) OF THIS SUBSECTION, THE STATE BOARD SHALL:**

9 **(I) CONSULT WITH PUBLIC AND PRIVATE AGENCIES AND**
10 **PERSONS WHO ARE CONCERNED WITH AND KNOWLEDGEABLE ABOUT COMPUTER**
11 **SCIENCE EDUCATION FOR STUDENTS; AND**

12 **(II) CONSIDER STANDARDS FOR PROFESSIONAL DEVELOPMENT**
13 **FOR TEACHERS AND OTHER EDUCATORS OF COMPUTER SCIENCE EDUCATION.**

14 **(3) THE DEPARTMENT SHALL DEVELOP A PLAN FOR IMPLEMENTING**
15 **THE STANDARDS ADOPTED UNDER PARAGRAPH (1) OF THIS SUBSECTION,**
16 **INCLUDING:**

17 **(I) STRATEGIES FOR REACHING UNDERSERVED POPULATIONS;**

18 **(II) STRATEGIES FOR IMPLEMENTING COMPUTER SCIENCE**
19 **EDUCATION AT EACH GRADE LEVEL OF ELEMENTARY, MIDDLE, AND HIGH SCHOOL;**

20 **(III) ESTABLISHING THE REQUIRED PROFESSIONAL**
21 **QUALIFICATIONS FOR TEACHERS AND OTHER PROFESSIONALS WHO INSTRUCT**
22 **STUDENTS IN COMPUTER SCIENCE EDUCATION; AND**

23 **(IV) DEVELOPING GUIDELINES FOR CURRICULA,**
24 **INSTRUCTIONAL MATERIALS, AND EQUIPMENT NECESSARY FOR COMPUTER**
25 **SCIENCE EDUCATION.**

26 **(B) (1) BEGINNING IN THE 2020–2021 SCHOOL YEAR, EVERY HIGH**
27 **SCHOOL SHALL OFFER AT LEAST ONE COMPUTER SCIENCE COURSE THAT IS**
28 **DESIGNED TO PREPARE STUDENTS FOR CAREERS AND COLLEGE.**

29 **(2) BEGINNING IN THE 2022–2023 SCHOOL YEAR, EVERY MIDDLE**
30 **SCHOOL SHALL OFFER COMPUTER SCIENCE EDUCATION.**

1 **(3) BEGINNING IN THE 2022–2023 SCHOOL YEAR, EVERY**
2 **ELEMENTARY SCHOOL SHALL OFFER A CURRICULUM THAT REQUIRES**
3 **COMPUTATIONAL THINKING.**

4 **12–118.**

5 **(A) IN THIS SECTION, “CENTER” MEANS THE MARYLAND CENTER FOR**
6 **COMPUTING EDUCATION.**

7 **(B) (1) THERE IS A MARYLAND CENTER FOR COMPUTING EDUCATION IN**
8 **THE UNIVERSITY SYSTEM OF MARYLAND.**

9 **(2) THE CENTER SHALL BE LOCATED AT THE UNIVERSITY SYSTEM OF**
10 **MARYLAND.**

11 **(C) THE CENTER SHALL:**

12 **(1) PROVIDE PROFESSIONAL DEVELOPMENT IN COMPUTER SCIENCE**
13 **EDUCATION TO TEACHERS, ADMINISTRATORS, AND OTHER PROFESSIONALS;**

14 **(2) ADMINISTER A GRANT PROGRAM FOR LOCAL EDUCATION**
15 **AGENCIES AND NONPROFIT ENTITIES THAT SEEK TO PROVIDE PROFESSIONAL**
16 **DEVELOPMENT IN COMPUTER SCIENCE EDUCATION; AND**

17 **(3) SET MEASURABLE GOALS FOR INCREASING THE GENDER, RACIAL,**
18 **DISABILITY STATUS, SOCIOECONOMIC, AND GEOGRAPHIC DIVERSITY OF MARYLAND**
19 **STUDENTS WHO PURSUE COMPUTER SCIENCE CAREERS AFTER HIGH SCHOOL OR**
20 **COLLEGE.**

21 **(D) (1) THE GOVERNOR SHALL APPOINT AN EXECUTIVE DIRECTOR OF**
22 **THE CENTER.**

23 **(2) THE EXECUTIVE DIRECTOR SHALL:**

24 **(I) ENSURE THAT THE PROVISIONS OF THIS SECTION ARE**
25 **CARRIED OUT;**

26 **(II) DEVELOP A PLAN TO APPROPRIATELY STAFF THE CENTER**
27 **IN ORDER TO EFFECTIVELY CARRY OUT THE DUTIES OF THE CENTER;**

28 **(III) DEVELOP A WORKING RELATIONSHIP WITH THE STATE**
29 **SUPERINTENDENT, THE GOVERNOR’S WORKFORCE DEVELOPMENT BOARD, AND**
30 **OTHER STAKEHOLDERS; AND**

1 **(IV) ON OR BEFORE DECEMBER 1 EACH YEAR, SUBMIT A REPORT**
2 **TO THE PRESIDENTS OF THE UNIVERSITY OF MARYLAND BALTIMORE COUNTY AND**
3 **THE UNIVERSITY OF MARYLAND, COLLEGE PARK CAMPUS, THE GOVERNOR, AND,**
4 **SUBJECT TO § 2-1246 OF THE STATE GOVERNMENT ARTICLE, THE GENERAL**
5 **ASSEMBLY REGARDING THE WORK OF THE CENTER.**

6 **(E) (1) (I) THERE IS A MARYLAND CENTER FOR COMPUTING**
7 **EDUCATION ADVISORY BOARD.**

8 **(II) THE ADVISORY BOARD SHALL ADVISE THE EXECUTIVE**
9 **DIRECTOR ON THE OPERATIONS AND ACTIVITIES OF THE CENTER.**

10 **(2) (I) THE ADVISORY BOARD CONSISTS OF NOT FEWER THAN 9,**
11 **AND NOT MORE THAN 15, VOTING MEMBERS APPOINTED BY THE EXECUTIVE**
12 **DIRECTOR, IN CONSULTATION WITH THE GOVERNOR, INCLUDING:**

13 **1. ONE MEMBER RECOMMENDED BY THE PRESIDENT OF**
14 **THE UNIVERSITY OF MARYLAND BALTIMORE COUNTY;**

15 **2. ONE MEMBER RECOMMENDED BY THE PRESIDENT OF**
16 **THE UNIVERSITY OF MARYLAND, COLLEGE PARK CAMPUS;**

17 **3. ONE MEMBER RECOMMENDED BY THE PRESIDENT OF**
18 **A CONSTITUENT INSTITUTION THAT IS NOT ONE OF THE INSTITUTIONS LISTED IN**
19 **ITEM 1 OR 2 OF THIS SUBPARAGRAPH;**

20 **4. ONE MEMBER RECOMMENDED BY THE MARYLAND**
21 **ASSOCIATION OF COMMUNITY COLLEGES;**

22 **5. ONE MEMBER RECOMMENDED BY THE STATE**
23 **SUPERINTENDENT FROM AMONG THE STAFF AT THE DEPARTMENT;**

24 **6. ONE MEMBER RECOMMENDED BY A COUNTY BOARD**
25 **OF EDUCATION;**

26 **7. ONE MEMBER WHO IS A TEACHER OR OTHER**
27 **PROFESSIONAL AT A HIGH SCHOOL IN THE STATE;**

28 **8. ONE MEMBER WHO HAS EXPERIENCE WORKING WITH**
29 **A NONPROFIT ENTITY THAT PROVIDES PROFESSIONAL DEVELOPMENT IN**
30 **COMPUTER SCIENCE EDUCATION;**

1 **9. ONE MEMBER WHO HAS EXPERIENCE WORKING WITH**
2 **A FOR-PROFIT ENTITY THAT IS AN EMPLOYER OF COMPUTING PROFESSIONALS; AND**

3 **10. OTHER MEMBERS AS MAY BE ADDED FROM TIME TO**
4 **TIME.**

5 **(II) THE FOLLOWING INDIVIDUALS SHALL BE EX OFFICIO**
6 **MEMBERS OF THE ADVISORY BOARD:**

7 **1. THE GOVERNOR, OR THE GOVERNOR'S DESIGNEE;**

8 **2. THE PRESIDENT OF THE SENATE, OR THE**
9 **PRESIDENT'S DESIGNEE;**

10 **3. THE SPEAKER OF THE HOUSE OF DELEGATES, OR**
11 **THE SPEAKER'S DESIGNEE; AND**

12 **4. THE CHANCELLOR OF THE UNIVERSITY SYSTEM OF**
13 **MARYLAND, OR THE CHANCELLOR'S DESIGNEE.**

14 **(3) (I) FROM AMONG ITS MEMBERS, THE ADVISORY BOARD SHALL**
15 **ELECT A CHAIR, VICE CHAIR, AND SECRETARY BY MAJORITY VOTE.**

16 **(II) THE ADVISORY BOARD SHALL ELECT OFFICERS EVERY 2**
17 **YEARS.**

18 **(4) (I) THE TERM OF A MEMBER OF THE ADVISORY BOARD IS 3**
19 **YEARS.**

20 **(II) A VACANCY OCCURRING ON THE ADVISORY BOARD DURING**
21 **THE TERM OF A MEMBER SHALL BE FILLED BY THE EXECUTIVE DIRECTOR FOR THE**
22 **REMAINDER OF THE UNEXPIRED TERM.**

23 **(III) THE EXECUTIVE DIRECTOR MAY REMOVE A MEMBER OF**
24 **THE ADVISORY BOARD FOR:**

25 **1. MISCONDUCT IN OFFICE;**

26 **2. WILLFUL NEGLIGENCE OF DUTY; OR**

27 **3. INCOMPETENCY.**

28 **(5) A MEMBER OF THE ADVISORY BOARD:**

1 **(I) MAY NOT RECEIVE COMPENSATION FOR SERVING ON THE**
2 **ADVISORY BOARD; BUT**

3 **(II) IS ENTITLED TO REIMBURSEMENT FOR EXPENSES UNDER**
4 **THE STANDARD STATE TRAVEL REGULATIONS, AS PROVIDED IN THE STATE**
5 **BUDGET.**

6 SECTION 2. AND BE IT FURTHER ENACTED, That this Act shall take effect July
7 1, 2018.