Computer Science Strategic Implementation Plan

State Board of Education Meeting

March 13, 2019

CALIFORNIA DEPARTMENT OF EDUCATION
Tony Thurmond, State Superintendent of Public Instruction

Computer Science Strategic Implementation Plan Authorization

- *Education Code (EC)* sections 53310-53315 call for development of a computer science strategic implementation plan and the appointment and convening of an advisory panel to develop recommendations for that plan.

Two-Part Process

1. *EC* Section 53310(a) requires the State Superintendent of Public Instruction (SSPI) to convene a computer science strategic implementation advisory panel to develop recommendations for a computer science strategic implementation plan.

    - *EC* Section 53311(a) requires that the recommendations be submitted to the SSPI, the State Board of Education (SBE), and the Legislature on or before January 15, 2019.

2. *EC* Section 53313 requires the SSPI to develop, and the SBE to consider adopting, a computer science strategic implementation plan on or before July 15, 2019.

Recommendations Development Process

Event	Schedule
Computer Science Strategic Implementation Plan (CSSIP) Panel members appointed by the SSPI, Governor, SBE, and Legislature	January 2018
CSSIP Panel convenes to develop recommendations for the strategic implementation plan	March–June 2018
Panel recommendations presented to the SBE, SSPI, and Legislature	September 2018

Public Review Process

Event	Schedule
Instructional Quality Commission (IQC) Education Technology Committee reviews draft CSSIP	September 2018
IQC and SSPI recommend draft CSSIP for 30–day public review period	September 2018
30–day public review period prior to IQC recommendations to SBE	October–November 2018
IQC analyzes public comments and makes recommendations for edits to the draft plan	January 2019

Plan Organization

- California's Commitment to Computer Science Education
- Vision, Mission, and Principles
- Expanding Computer Science Course Offerings
- Improving Access to Computer Science Education for All Students
- Supporting Educators to Teach Computer Science
- Making Systemic Improvements in Computer Science Education
- Appendix A

Expanding Computer Science Course Offerings

- Expanding K–8 offerings
  - Integrating computer science into other disciplines
- Expanding High School Offerings
  - Utilizing Local Control Funding Formula funding
  - UCCI Integrated Courses to fulfill "a-g" requirements

Improving Access to Computer Science Education for All Students

- Family and community awareness and support
- Training materials for teachers and counselors to encourage typically underrepresented groups
- Expanded learning opportunities

Supporting Educators to Teach Computer Science

- Recruit teachers from college and industry

- Ongoing computer science professional learning opportunities

- Support teachers to organize communities of practice

Making Systemic Improvements in Computer Science Education

- Standards for Information Technology infrastructure and personnel

- Support computer science education in Local Control and Accountability Plan Priority 7: Course Access

- Evaluation criteria for computer science instructional materials

- Recognize successful early adopters

Appendix A

- Pass legislation to authorize Commission on Teacher Credentialing to develop a single subject credential in computer science

- Develop a CA Subject Examination for Teachers for computer science

- Create a CA Subject Matter Project for computer science

- Dedicated for funding at the state and local level for staff that will support computer science education

- Financial support to assist teachers working in low-income and underserved districts to complete computer science authorizations

- Build awareness of the CA Computer Science Standards through roll-out workshops

Additional Information

- More information is available on the California Department of Education (CDE) Computer Science Strategic Implementation Plan web page at https://www.cde.ca.gov/pd/ca/sc/cssip.asp

Revised Motion

- The CDE recommends that the SBE approve the California Computer Science Strategic Implementation Plan, pending SBE Executive Director approval of any technical edits.