K-12 Computer Science Standards Update

VLAC Meeting
October 20, 2016
Legislation HB 831

• The Standards of Learning shall include, but not be limited to, the basic skills of communication (listening, speaking, reading, and writing); computation and critical reasoning, including problem solving and decision making; proficiency in the use of computers and related technology; computer science and computational thinking, including computer coding; and the skills to manage personal finances and to make sound financial decisions.
Appropriation

Supplemental Education Assistance Programs:

• Computer Science Training For Teachers

FY17 $550,000     FY18 $550,000
Work to Date

Investigation of CS Standards:

• Arkansas
• United Kingdom
• Massachusetts
Work to Date

Collaboration with Organizations:

- Computer Science Teachers Association (CSTA)
- K12CS
- Code.org
- CodeVa
- Southern Regional Education Board (SREB)
- Oracle
Work to Date

Documents Reviewed:

• Computer Science Teachers Associations (CSTA) 2011 K12 CS standards
• CSTA Interim Standards
• K12CS Computer Science Framework
K12CS Framework

Development Steered by:

- Code.org
- CSTA
- Cyber Innovation Center
- National Math and Science Initiative
- Association for Computing Machinery
- 100+ advisors from the computing community
Endorsers:
The K–12 Computer Science Framework is endorsed by many stakeholders in the education, research, and business communities.

https://k12cs.org/statements-of-support/
Fall 2016

• Develop a Decision Brief and Schedule
• Present the schedule to the Board of Education
• Provide a platform for public comments
Winter 2017

• Identify members of a Teacher Review Committee
• Aggregate and analyze public comments
• Begin work with the Teacher Review Committee to draft Computer Science standards
Spring 2017

- Complete a draft of the standards with the Steering Committee
- Meet with CS stakeholders and professional organizations
- Fine tune draft with the Steering Committee to prepare for a first review with the Board of Education
Summer 2017

- Present the draft standards to the Board of Education for first review
- Present the draft standards for public comment
- Hold public hearings related to the draft standards
Fall 2017

• Make final revisions to the draft standards with the Steering Committee

• The Superintendent of Instruction will present the standards for final review and adoption to the Board of Education