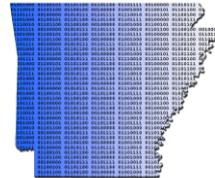




Status of Computer Science in Arkansas

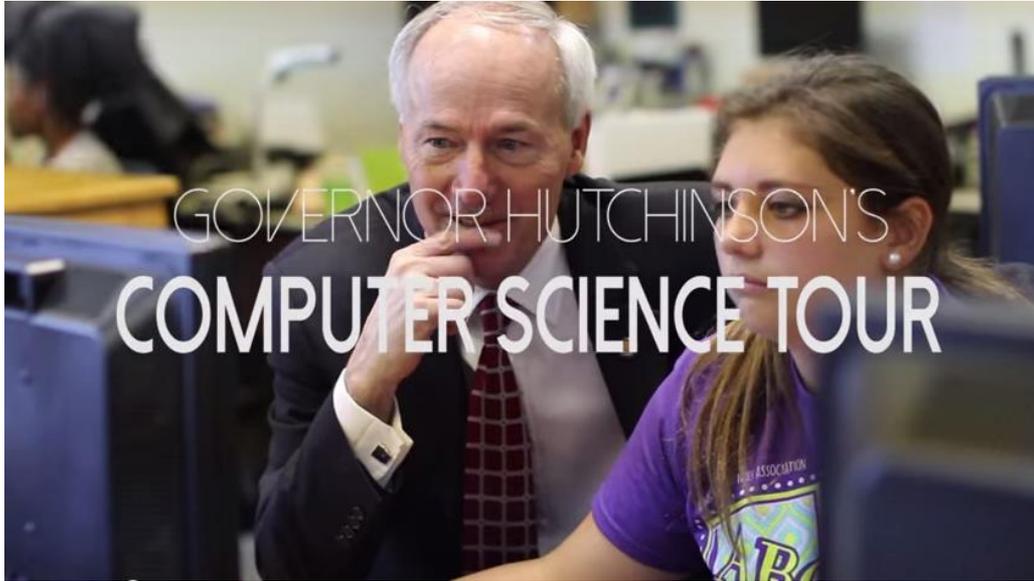
Anthony Owen
Coordinator of Computer
Science Education
September 29, 2015



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Governor Asa Hutchinson's Leadership



[https://www.youtube.com/watch?v= Hn
bOhgHU-E&](https://www.youtube.com/watch?v=HnbOhgHU-E&)



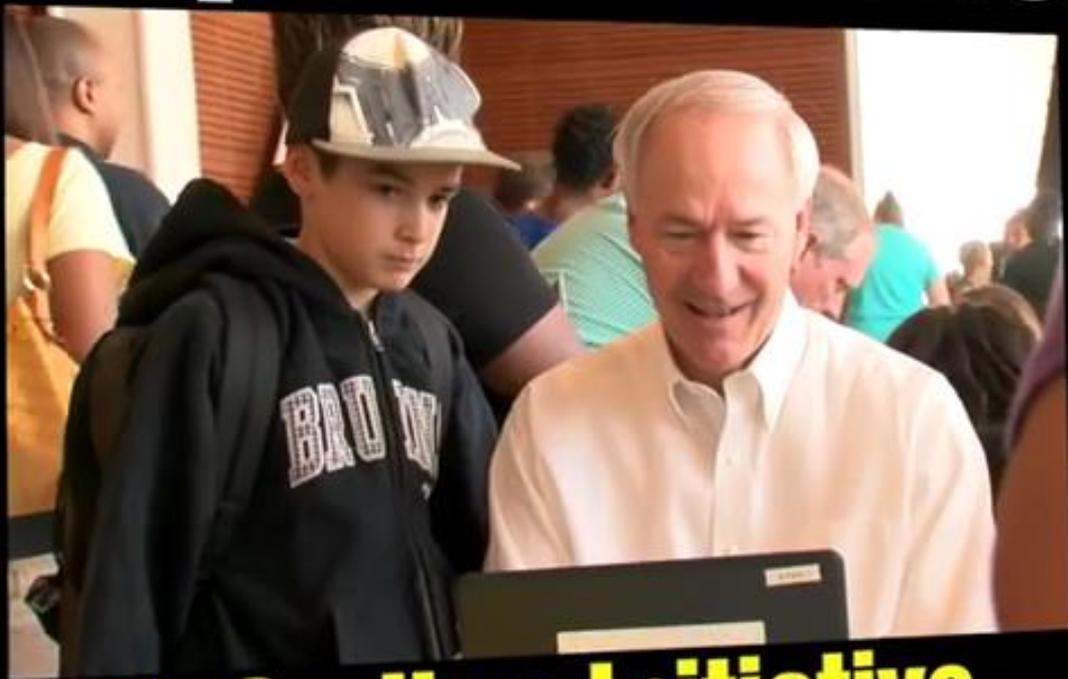
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Computer Science

**Governor
Asa Hutchinson's**



& Coding Initiative

ADE Computer Science Webpage

- access other resources

<http://www.arkansased.gov/divisions/learning-services/curriculum-and-instruction/computer-science>

(<http://goo.gl/j2Y8Sv>)



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Computer Science FAQ

http://www.arkansased.gov/public/userfiles/Learning_Services/Curriculum%20and%20Instruction/Resource%20Mat/Computer%20Science/Computer_Science_Fact_Sheet_Final.pdf

<http://goo.gl/7F4c66>



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Computer Science FAQ

- Act 187 Requirement
- Licensure Update
 - Praxis Exam (See [Commissioner's Memo LIC-15-028](#))
 - [Alternative Licensure Plan for Computer Science](#)
- Professional Development
 - ESC Works
 - [STEM Center List](#)



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Computer Science FAQ

- Curriculum Framework Documents
- Resources – *You can use whatever your district says aligns to the curriculum frameworks!*
- Computer Science Flex Credit
 - substitutes for the requirement of a 4th math or 3rd science
 - great option for students but schools should help them choose wisely



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Computer Science FAQ

Course [Course Code]	Approved Licensure Area	Credit to be awarded to the student	Area for the 38 Required Courses
Computer Science and Mathematics [439100]	Secondary Mathematics	4 th Year Math Beyond Algebra II (Smart Core or Core)	1 of the 6 math, and 1 required computer science
Computer Science and Mathematics [460050]	ADE Computer Science	Computer Science Flex Credit	1 required computer science
Computer Science and Mathematics [460050]	Career and Technical Education (CTE) Business Education	Computer Science Flex Credit	1 required computer science
Essentials of Computer Programming [460020]	ADE Computer Science	Computer Science Flex Credit	1 required computer science
Essentials of Computer Programming [460020]	Career and Technical Education (CTE) Business Education	Computer Science Flex Credit	1 required computer science
College Board Advanced Placement (AP) Computer Science* [539080]	Secondary Mathematics (with current College Board approved training)	4 th Year Math Beyond Algebra II (Smart Core or Core)	1 of the 6 math, and 1 required computer science 1 of 9 required CTE Units**
AP Computer Science* [560050]	Any Secondary Certification Area (with current College Board approved training)	Computer Science Flex Credit	1 required computer science, and 1 of 9 required CTE Units**
International Baccalaureate (IB) Computer Science* [539110]	Secondary Mathematics (with the approved IB training)	4 th Year Math Beyond Algebra II (Smart Core or Core)	1 of the 6 math, and 1 required computer science 1 of 9 required CTE Units**
IB Computer Science* [560060]	Any Secondary Certification Area (with the approved IB training)	Computer Science Flex Credit	1 required computer science 1 of 9 required CTE Units**

*Refer to the ADE rules for AP and IB courses.

**Requires Arkansas Department of Career Education program approval

Computer Science FAQ

- The FAQ is not a static document
- It will be updated as new information is available

Arkansas Department of Education
Updated 05/26/2015
Page 1 of 4



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Computer Science Licensure Assessment Reimbursement

- Commissioner's Memo - LIC-15-035
 - (<http://goo.gl/8WZgL4>)
- To be eligible:
 - Score at least 171 on Praxis™ Computer Science (5651)*
 - Add Computer Science Endorsement to your AR License
 - Submit the Reimbursement Request (and other required) forms
 - All within 12 months

**A cut score of 159 has been recommended to the PLSB*

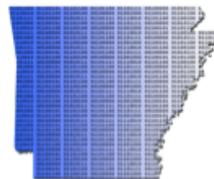


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Computer Science Task Force Update

- Monthly meetings of the full group
- Regular sub-committee meetings
 - PD and Training – Chair, Andy Mayes
 - Curriculum – Chair, Carl Frank
 - Awareness – Chair, Dave Wengel
 - Metrics – Chair, Bret Powell
 - Resources – Chair, Suzanne Mitchell



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Computer Science Task Force Update

- ADE's Computer Science webpage will begin announcing information regarding the CSTF.
 - meeting times, locations, agendas as they are decided
 - approved minutes from previous meetings
 - profile information on the members



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What Does This Mean For You?

CSTA Computational Thinking Standard for K-3

Understand how to arrange (sort) information into a useful order, such as sorting students by birth date, without using a computer.

Phonics and Word Recognition: CCSS.ELA-LITERACY.RF.1.3

Know and apply grade-level phonics and word analysis skills in decoding words.



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What Does This Mean For You?

CSTA Computational Thinking Standard for 3-6

Understand and use the basic steps in algorithmic problem-solving (e.g., problem statement and exploration, examination of sample instances, design, implementation, and testing).



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What Does This Mean For You?

- Strategic Plan
- Draft Timeline



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Code.org's Hour of Code

<https://www.youtube.com/watch?v=FC5FbmsH4f>

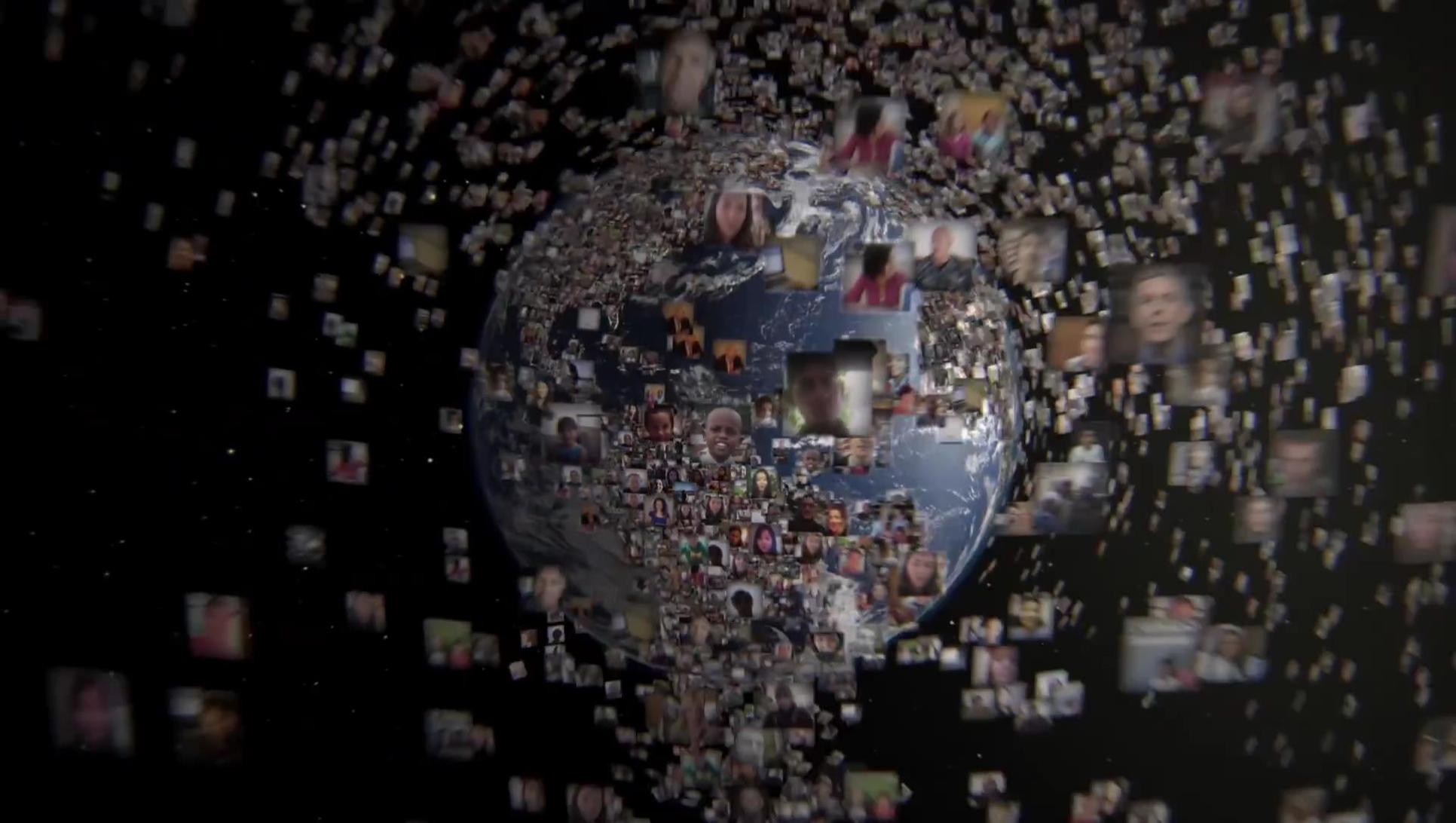
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Resources for You

- www.arkansased.gov
- <http://www.arkansased.gov/divisions/learning-services/curriculum-and-instruction/resource-materials-for-lesson-plans/computer-science/computer-science-praxis-5651-study->



Q&A / Contact Information

Curriculum and Instruction Unit – Director Stacy Smith

ADE.candi@arkansas.gov

501-682-7442

Want to be added to the ADE Curriculum ListServ? If so, please send your name, e-mail address, and district name to

ADE.candi@arkansas.gov

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