

CS Teacher Gathering



Stueckle Sky Center
Skyline Room

May 13, 2016

Sponsored by Google CS4HS grant

Hosted by Boise State's Department of Computer Science IDoCode project

Boise State's Department of Computer Science is a recipient of a Google CS4HS award. The Google CS4HS program is an annual funding program to improve the computer science educational ecosystem by providing funding for the development and execution of CS teacher professional development worldwide.

To learn more about CS4HS, please visit the website at <http://www.cs4hs.com/>

Welcome / Agenda

- 4:30 Informal Networking
- 5:00 Welcome – Amit
- 5:00 CS Education in Idaho
 - SDE and Legislative Update – Amit
 - STEM Action Center Update – Angela
 - Code.org Update – Sherawn
- 5:40 Open Q&A
- 6:00 Dinner

Community... *It takes a village!*



Parents & Students



School Districts



Idaho State Board of Education



Industry



Teachers



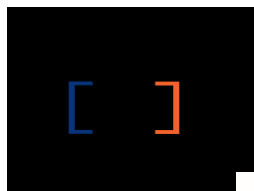
Idaho Legislature



National Science Foundation
WHERE DISCOVERIES BEGIN



Supporters/Promoters



Educational Institutions
and Partners



IDoCode Update

Amit Jain

- *Goal: Significantly increase the # of highly qualified CS teachers*
 - Third cohort starts Summer 2016
 - First cohort students graduated or near graduation
 - Teachers have a leadership role in the new curriculum at their schools
 - Potential replication of IDoCode at other Idaho Universities
 - Initiating a 10 credit Digital Badge with CID
- # of students in ECS/CSP/CS A Fa'15-Sp'16: >725 (~20% female)

Student Outreach

Amit Jain and Ernie Covelli

- Expand the dialog to females and minorities
- Encourage school counselors and teachers to reach out to ALL
- NCWIT workshop for Counselors, Teachers and Principals
 - ☐ **September 23: Save the date!**
 - ☐ Location: Top floor of Zions bank building

State Department of Education Update

Amit Jain

- High School CS Teacher Standards (done!)
 - BSU’s programs meet these standards
- K-12 CS Student Standards (in progress)
 - Currently in public review
 - Finalize this Fall for legislative approval in 2017
 - Aligned with *CS framework* developed by the ACM, CSTA, Code.org, CIC, and NMSI; and with ISTE and the new *2016 CSTA K-12 CS Standards*

Teacher Endorsement Update

Amit Jain

- Does the state require an endorsement to teach ECS, AP CSP?
 - No endorsement is required to teach ECS or AP CSP/CS A as an elective
 - An endorsement will be required for AP CSP or AP CS A to qualify for core HS credit at a future date
 - Currently HS core credit for AP CSP/CS A with a Math/Science certified teacher
- Teacher Endorsement requires
 - Completion of an approved program
 - Observations using the Danielson Framework
 - Passing the Praxis exam

Computer Science Community Update

Amit Jain

- *Goal:* Build a community of educators
- Collaboration Forums: Piazza, CS10K, IDoCode, Code.org
- Future networking events
 - What would you like to see in a future event?

CS Curriculum Update

Amit Jain

- Two new nationally recognized courses:
 - *Exploring Computer Science*
 - Accessible to everyone!
 - *AP Computer Science Principles* – launching Fall 2016
 - 5 different curriculum recognized by the AP College Board
 - <http://apcsp.org/index.php/courses>
- *AP Computer Science A* – existing course

Models for CS Rollout

Amit Jain

- Vallivue Expanding Curriculum to Include Computer Science
 - New classroom created
 - Highly skilled teacher moved to lead the program
- Boise District
 - Successful pilot of ECS Fa'15
 - Fa'16 AP CSP rollout to four High Schools
- West Ada CS Magnet Program
 - 4 year PTE program focused on two pathways:
 - Computer Programming
 - Web Design
- *Open for others to share their plans ...*