



STATE OF HAWAII  
DEPARTMENT OF EDUCATION  
P.O. BOX 2360  
HONOLULU, HAWAII 96804

**Date:** 01/31/2018  
**Time:** 02:45 PM  
**Location:** 229  
**Committee:** Senate Education

**Department:** Education

**Person Testifying:** Dr. Christina M. Kishimoto, Superintendent of Education

**Title of Bill:** SB 2384 RELATING TO EDUCATION.

**Purpose of Bill:** Requires the department of education to develop a comprehensive plan to integrate design thinking and coding in middle, intermediate, and high school curriculums. Requires the department of education to submit the plan to the legislature prior to the regular session of 2019.

**Department's Position:**

The Department of Education (Department) supports the intent of SB 2384.

Currently, the Department is developing a multi-year comprehensive computer science plan. This plan includes implementation dates, benchmarks and strategies to integrate design thinking through the Science Technology Engineering Math (STEM) program and to identify coding curricula through the Computer Science (CS) program. STEM and CS program leads are collaboratively exploring additional ways to blend design thinking strategies within other computer science areas (e.g., computing systems, networks and the internet, data and analysis, algorithms and programming, and impacts of computing).

To ensure equitable and expanded access to computer science learning opportunities for K-12 students by 2022, the Department is addressing the following eight deliverables:

- Adoption of Computer Science Standards aligned to national efforts,
- Development of single courses and pathway courses for maximum student access,
- Identification of standards-based curricular resources,
- Quality K-12 professional development in computer science including fellowships and externships for teachers,
- A schedule of academic competitions in partnership with business, industry and government,
- Expansion of regional and school-based student demonstrations,
- Increased partnerships for access to meaningful internship and apprentice models, and
- Improved career counseling and information sharing around current and emerging computer science related work and study opportunities in Hawaii.

During Spring 2018, the Department will solicit internal and external stakeholder feedback on the draft computer science plan.

Thank you for this opportunity to provide testimony on SB 2384.

The Hawaii State Department of Education seeks to advance the goals of the Strategic Plan which is focused on student success, staff success, and successful systems of support. This is achieved through targeted work around three impact strategies: school design, student voice, and teacher collaboration. Detailed information is available at [www.hawaiipublicschools.org](http://www.hawaiipublicschools.org).

**SB-2384**

Submitted on: 1/27/2018 2:08:35 PM

Testimony for EDU on 1/31/2018 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Javier Mendez-Alvarez		Support	No

Comments:

**SB-2384**

Submitted on: 1/27/2018 2:48:45 PM

Testimony for EDU on 1/31/2018 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Justin Kunimune		Support	No

Comments:

I think that this bill is a wonderful idea. To be perfectly honest, I don't much care for design thinking, but *coding* is a critical skill that all high school graduates ought to know. I recently graduated from Punahou, and the only exposure I had to any kind of software engineering was a couple of computer science classes taken as math electives. Those classes gave me an invaluable advantage when starting my higher education, studying engineering. However, it is not just STEM professionals who need to know how to code. Computers and programming languages are a large part of nearly all industries in this day and age, from science and engineering to marketing and art. It is common knowledge that thousands of software jobs currently go unfilled. In my opinion, it is shameful that coding classes are not yet required in our education system.

**SB-2384**

Submitted on: 1/27/2018 4:35:31 PM

Testimony for EDU on 1/31/2018 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Kaulana Dameg		Support	No

Comments:

**SB-2384**

Submitted on: 1/30/2018 4:00:46 AM

Testimony for EDU on 1/31/2018 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Richard Mizusawa		Support	No

Comments: