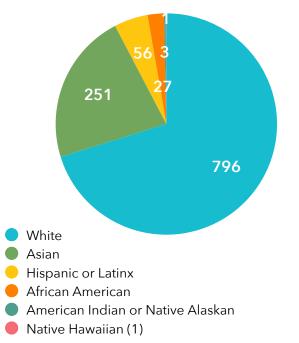
#CSforAllMN

State of Computer Science (CS) Education in Minnesota

CURRENTLY, COMPUTER SCIENCE (CS) ED IN MINNESOTA LOOKS LIKE:

- 895 CS college graduates in 2015¹
- Compared to 3,477 open computing jobs¹
- No CS licensure in MN for K12 teachers¹
- No standards or certification pathways for CS ed¹
- **Legislation** allows districts to count CS as a math credit for high school graduation³

2017 MN CS AP EXAM PARTICIPANTS⁵



- **1,201** exams taken in AP CS in 2017¹
- **20%** of 2017 AP CS exams were taken by females
- 59 schools offered AP CS courses in 2016-2017 (18% of schools with AP programs)¹

EXPANDING COMPUTING EDUCATION PATHWAYS ALLIANCE (ECEP)⁶

Minnesota has joined 23 other states in seeking to increase the number and diversity of K-16 students with access to CS.

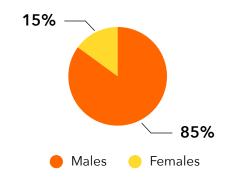
Our goals include:

- Writing a landscape report for the state of CS Ed in MN (coming in May 2019)
- Convening a summit to draft a state plan & timeline for increasing access to K-16 CS education in MN
- Create pathways & partnerships to drive state-level CS education

Coming Soon:

Summit in May, 2019

2015 MN CS COLLEGE GRADUATES¹



CSforAllMN.org

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BY REGION⁷

Northwest

1

West Central

0

Southwe

8

9

Central

Twin Cities

Southern

10

CURRENT K12 CS ED POLICIES IN MN3:



RECOMMENDATIONS FOR K12 CS ED IN MN2.

- **Promote** broad & diverse participation
- **Expand** CS offerings
- Integrate CS into content areas
- Increase qualified CS teachers
- **Prioritize** funding

Students who take AP Computer Science in high school are 6x more likely to major in CS.

- African Americans are 7x more likely
- Hispanic students are 8.5x more likely
- Females are 10x more likely⁴

BARRIERS TO K12 CS ED IN MN²:

- Gap between the demand for CS ed and what is offered
- Perceived weak school board support
- Lack of K12 teachers trained in CS

SCHOOLS OFFERING AP CS EXAMS

Northland

()

 $\mathbf{28}$

Why CS in K12?8

Economic & Workforce Development

Citizenship & Civic Engagement

Competencies & Literacies

Technological, Social & Scientific

Equity & Social Justice

School Reform & Improvement

Personal Agency, Joy, & Fulfillment



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5 - https://research.collegeboard.org/programs/ap/data/archived/ap-2017 6 - https://ecepalliance.org/

7 - https://education.mn.gov/MDE/Data/

8 - https://csforall.org/script

- 4 https://k12cs.org/equity-in-computer-science-education/

1 - https://code.org/advocacy/state-facts/MN.pdf 2 - http://services.google.com/fh/files/misc/cs-edu-state-reports-2017.pdf 3 - https://code.org/files/2018_state_of_cs.pdf (Legislation = HF 844 (2015))