CONNECTICUT

# **2023 State of Computer Science Education**

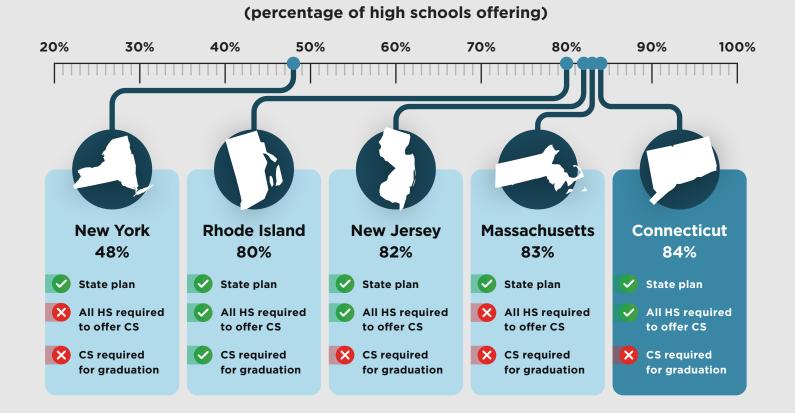
The rapid pace of technological advancement, as seen with the widespread integration of generative artificial intelligence (AI), underscores the need for foundational knowledge in computer science for all students. This report calls upon advocates to embrace the urgency of this matter and revamp school curricula to align with the demands of the 21st century, including requiring that all students learn computer science.

Currently, 57.5% of public high schools in the United States (U.S.) offer a foundational computer science class—an achievement marking the largest percentage growth in the last five years. Across the 35 states\* where data is available, 5.8% of high school students are enrolled in foundational computer science. Even with growing access this growth, large disparities still exist, and we must continue to focus on eliminating participation gaps. **5,373** In 2023, CT averaged 5,373 open computing jobs each month

**\$112,526** These jobs have an average salary of \$112,526

\*AL, AR, AZ, CT, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MA, MD, MS, NC, ND, NE, NJ, NM, NV, NY, OK, OR, PA, RI, TN, TX, UT, VA, VT, WV, WI

**Comparative Access to Computer Science Courses** 





# Ten Policies to Make Computer Science Foundational



school diploma

education institutions

## What Has Connecticut Done to Advance Computer Science Education?

Connecticut requires every elementary, middle, and high school to offer computer science.

SB 957 (2019) required teacher preparation programs to include, as part of the curriculum for all preservice candidates, instruction in computer science that is grade-level and subject-area appropriate.

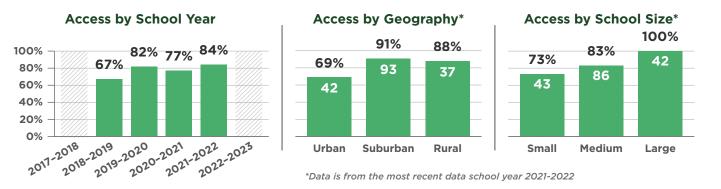
## How Can Connecticut Increase Opportunities for Students?

Connecticut should fund professional development opportunities for teachers to ensure there are enough teachers prepared to teach computer science in every school. A fund was created by SB 957 (2019), but no funding has yet been allocated.

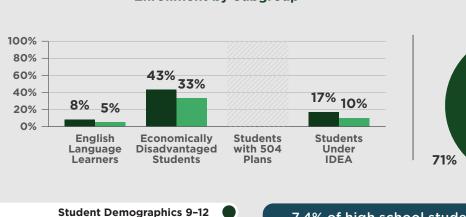
Connecticut should adopt a graduation requirement for all high school students in computer science.

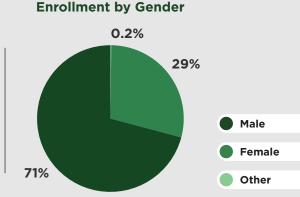


### Percentage of Public High Schools Offering Foundational Computer Science



#### Participation in Foundational High School Computer Science by Student Demographics





7.4% of high school students took foundational computer science in 2021–2022

#### **Enrollment by Race / Ethnicity**



#### Enrollment by Subgroup

**Participation in Foundational Courses** 



### Percentage of Public High Schools Offering Foundational Computer Science Nationally

