



State of Hawai‘i
Department of Education

**Annual Report on
Computer Science Education
School Year 2024-2025**

October 2025

Section 302A-323, Hawai‘i Revised Statutes, requires the Hawai‘i State Department of Education to annually report on the computer science courses and computer science content offered during the previous school year at the schools in each complex area.

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Introduction

The Hawai‘i State Department of Education’s (Department) K-12 Computer Science (CS) Education program is dedicated to equipping students with the knowledge and skills necessary to succeed in an increasingly digital world powered by computing.

The program focuses on fostering critical thinking, problem solving, and computing literacy skills through comprehensive standards-based courses that are aligned to the five core computer science concepts across all grade levels. Emphasizing inclusivity, diversity, and real-world applications, the program aims to prepare students for future career opportunities and ensure they are well equipped to navigate and contribute to the technological computing advancements of the future.

Computer Science Education Annual Data Reporting

The purpose of this annual CS report is to document the Department’s progress toward the CS education goals specified in HRS 302A-323. This is done by documenting the CS courses and content offered at public schools in each complex area during the 2024-2025 school year.

This annual report is based on data from the fourth quarter (Q4) of the 2024-2025 school year. In terms of the data sources used to create this report, all course and student enrollment data were provided by the Department’s Data Quality Team. Data about instructors were provided by the Department’s Office of Talent Management.

More information about the Department’s CS program is available at <http://tiny.cc/HDOECS>.

In addition, the aggregate data for the annual report can be viewed on Hawai‘i Revised Statutes Section 302A-323 (Act 158, Session Laws of Hawai‘i 2021) Reporting Data Dashboard at <https://bit.ly/2021Act158CSData>.

Computer Science Courses by Complex Area Schools

Complex Area	Elementary		Middle		High		Combo	
	All Schools	Schools Offering CS						
‘Aiea-Moanalua-Radford	16	16	3	3	3	3	-	-
Baldwin-Kekaulike-Kūlanihāko‘i-Maui	13	13	4	4	4	4	-	-
Campbell-Kapolei	12	12	4	4	2	2	-	-
Castle-Kahuku	13	13	1	1	1	1	1	1
Farrington-Kaiser-Kalani	17	17	4	4	3	3	1	1
Hāna-Lahainaluna-Lāna‘i-Molokai	5	5	2	2	2	2	2	2 ¹
Hilo-Waiākea ²	8	8	2	2	2	2	1	1
Honoka‘a-Kealakehe-Kohala-Konawaena	9	9	3	3	3	3	4	4
Kailua-Kalāheo	9	9	1	1	2	2	2	2
Kaimuki-McKinley-Roosevelt	19	19	5	5	3	3	1	1
Kapa‘a-Kaua‘i-Waimea	9	9	3	3	3	3	1	1
Ka‘ū-Kea‘au-Pāhoa	5	5	1	1	1	1	2	2
Leilehua-Mililani-Waialua	14	14	3	3	2	2	1	1
Nānākuli-Wai‘anae	6	6	1	1	1	1	1	1
Pearl City-Waipahu	13	13	2	2	2	2	-	-

¹ Hāna High and Elementary School in the Hāna-Lahainaluna-Lāna‘i-Molokai Complex Area offered a CS course with zero student enrollment.

² Kalaniana‘ole Elementary (formerly Kalaniana‘ole Elementary and Intermediate) in the Hilo-Waiākea Complex Area is no longer considered an intermediate school but is counted as a Combo school in this data set.

Computer Science Course Enrollment

Course Code	Enrollment	Course Code	Enrollment	Course Code	Enrollment
ECS9400 Cyber 1: Cybersecurity by Advanced Placement	25	EXS1700 Computer Programming - Introduction to Python	28	TIO4000 Cloud Networking	9
ECS9500 Advanced Placement Computer Science A	166	FVW1000 Computer Art	98	TIP2000 Programming 1	199
ECS9800 Advanced Placement Computer Science Principles	448	FVW1100 Computer Art A	22	TIP3000 Programming Mobile Apps Development 2	139
ECS9900 Directed Study - Computer Science	5	FVW2000 Computer Art 2	11	TIP4000 Programming Game Development 3	24
EMS0010 Computer Science Grade 1	10096	FVW3000 Computer Art 3	6	TIP4100 Programming Work-Based Learning	21
EMS0020 Computer Science Grade 2	10894	TAM1000 Foundations of Manufacturing	437	TIW2000 Web Design & Development 1	18
EMS0030 Computer Science Grade 3	10942	TAM1001 Foundations of Manufacturing A	1	TIW3000 Web Design & Development 2	27
EMS0040 Computer Science Grade 4	10363	TAR2000 Automation and Robotic Tech 1	93	TIY2000 Cyber 1	115
EMS0050 Computer Science Grade 5	10746	TAR3000 Automation and Robotic Tech 2	30	TIY3000 Cyber 2	58
EMS0060 Computer Science Grade 6	4343	TAR4000 Automation and Robotic Tech 3	25	TIY4000 Cyber 3	11

Computer Science Course Enrollment

Course Code	Enrollment	Course Code	Enrollment	Course Code	Enrollment
EMS0091 Computer Science Grade K	9625	TAR4100 Automation and Robotic Tech Work-Based Learning	14	TIY4100 Cyber Work-Based Learning	54
EXS0101 Introduction to Computer Science Level 1 YR	1279	TCD2000 Digital Design 1	904	TMG0410 Introduction to Technology (Semester)	409
EXS0102 Introduction to Computer Science Level 1 SEM	3141	TCD3000 Digital Design 2	496	TMG0500 Career & Technical Computer Literacy (Quarter)	80
EXS0103 Introduction to Computer Science Level 1 QTR	815	TCD4100 Digital Design Work- Based Learning	180	TMG0501 Career & Technical Computer Literacy (Semester)	874
EXS0201 Advanced Computer Science Level 2 YR	168	TIA2000 Artificial Intelligence 1	55	TMG0502 Career & Technical Computer Literacy (Year)	187
EXS0202 Advanced Computer Science A Level 2 SEM	239	TIE2000 Networking 1	120	XAT1000 STEM Capstone	192
EXS0203 Advanced Computer Science Level 2 QTR	74	TIE3000 Networking 2	18	XEP0100 Integrated STEM 6-8 Year	1065
EXS0302 Advanced Computer Science Level 3 SEM	45	TIE4100 Networking Work-Based Learning	2	XMD0012 Exploratory Media Production	4290

Computer Science Course Enrollment

Course Code	Enrollment	Course Code	Enrollment	Course Code	Enrollment
EXS1300 Introduction to Computer Science	119	TIF1000 Foundations of Computer Systems & Technology	1040	XWG0020 Exploratory Wheel Grade 8 (Year)	545
EXS1310 Introduction to Computer Science A	148	TIF1002 Foundations of Computer Systems & Technology B	3	XWG0021 Exploratory Wheel Grade 8 (Semester)	25
EXS1320 Introduction to Computer Science B	7	TIM0100 Career & Technical - Computer Literacy (Year)	43	XWG0022 Exploratory Wheel Grade 8 (Quarter)	109
EXS1350 Computer Science	25	TIM0101 Career & Technical - Computer Literacy (Semester)	743	ZTI1011 Running Start: Digital Tools for the Info World	109
EXS1400 Computer Science A	152	TIM0102 Career & Technical - Computer Literacy (Semester)	603	ZTI1111 Running Start: Introduction to Computer Science	10
EXS1500 Computer Science B	133				

Gender

School Year	All Students	Enrolled in Computer Science Courses Count (% of All Students)			
		Total	Female Students	Male Students	No Information
2024-2025	146,390	84,617 (57.8%)	39,836 (27.2%)	44,776 (30.6%)	5 (0.0%)

Race and Ethnicity

School Year	All Students	Enrolled in Computer Science Courses								
		Count (% of All Students)								
Total	Asian	Black	Filipino	Hispanic	Native Hawaiian	Pacific Islander	White	Other		
2024-2025	146,390	84,617 (57.8%)	13,716 (9.4%)	2,387 (1.6%)	19,143 (13.1%)	1,508 (1.0%)	17,693 (12.1%)	10,354 (7.1%)	18,164 (12.4%)	1,652 (1.1%)

Special Education

School Year	All Students	Special Education Students Count (% of All Students)	Enrolled in Computer Science Courses	
			Total	Special Education Students
2024-2025	146,390	17,194 (11.8%)	84,617 (57.8%)	9,743 (6.7%)

English Language Learners

School Year	All Students	All English Language Learner Students Count (% of All Students)	Enrolled in Computer Science Courses	
			Total	English Language Learner Students
2024-2025	146,390	14,783 (10.1%)	84,617 (57.8%)	8,664 (5.9%)

Free and Reduced Lunch

School Year	All Students	All Free & Reduced Lunch Students Count (% of All Students)	Enrolled in Computer Science Courses	
			Total	Free & Reduced Lunch Students
2024-2025	146,390	60,939 (41.6%)	84,617 (57.8%)	38,331 (26.2%)

Computer Science Course Instructors

CS courses would not be available without qualified teachers to deliver instruction. In total, there were 11,240 instructors working in schools during the 2024-2025 school year. Of the 11,240 unique instructors working for the Department, 33.9% (3,815) were CS instructors.

Computer Science Course Instructors by Gender

School Year	All Instructors	All Computer Science Instructors Count (% of All Instructors)		
		Total	Female Instructors	Male Instructors
2024-2025	11,240	3,815 (33.9%)	3,274 (29.1%)	541 (4.8%)

Computer Science Course Instructors by Race/Ethnicity

School Year	All Instructors	All Computer Science Instructors Count (% of All Instructors)							
		Total	Asian	Black	Native Hawaiian	Other Pacific Islander	Two or More Races	White	Other
2024-2025	11,240	3,815 (33.9%)	1,487 (13.2%)	28 (0.3%)	381 (3.4%)	17 (0.2%)	1,129 (10.0%)	749 (6.7%)	24 (0.2%)

Computer Science Course Instructors by Degree/Applicable Certification

School Year	All Instructors	All Computer Science Instructors Count (% of All Instructors)					
		Total	Bachelor's	Master's	Post-Baccalaureate	Doctorate	Other / No Information
2024-2025	11,240	3,815 (33.9%)	1,613 (14.4%)	1,281 (11.4%)	814 (7.2%)	21 (0.2%)	86 (0.8%)