

















1. How many students attend your school?

		Response Percent	Response Count
1-100		0.0%	0
101-250		2.1%	2
251-500		6.3%	6
501-1000		19.8%	19
1001-2000		57.3%	55
2001+		14.6%	14
answered question			96
skipped question			1


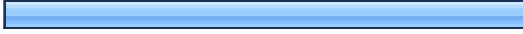




2. What percentage of students at your school speak a language at home other than English?

		Response Percent	Response Count
0%		6.5%	6
1-20%		64.5%	60
21-40%		18.3%	17
41-60%		3.2%	3
61-80%		4.3%	4
81-100%		3.2%	3
answered question			93
skipped question			4







3. What percentage of students at your school are African American?

		Response Percent	Response Count
0%		0.0%	0
1-20%		46.7%	43
21-40%		26.1%	24
41-60%		12.0%	11
61-80%		4.3%	4
81-100%		10.9%	10
answered question			92
skipped question			5



















4. What percentage of students at your school are Hispanic/Latino?

		Response Percent	Response Count
0%		3.3%	3
1-20%		78.3%	72
21-40%		13.0%	12
41-60%		3.3%	3
61-80%		1.1%	1
81-100%		1.1%	1
answered question			92
skipped question			5

5. What percentage of students qualify for free or reduced lunch?




		Response Percent	Response Count
0%		1.1%	1
1-20%		34.4%	32
21-40%		30.1%	28
41-60%		25.8%	24
61-80%		7.5%	7
81-100%		1.1%	1
answered question			93
skipped question			4

6. In which Maryland public school district is your high school located?

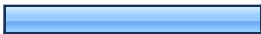

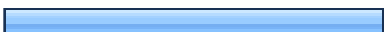




		Response Percent	Response Count
Allegany County		0.0%	0
Anne Arundel County		6.2%	6
Baltimore City		7.2%	7
Baltimore County		11.3%	11
Calvert County		0.0%	0
Caroline County		1.0%	1
Carroll County		3.1%	3
Cecil County		6.2%	6
Charles County		4.1%	4
Dorchester County		1.0%	1
Frederick County		8.2%	8
Garrett County		0.0%	0
Harford County		9.3%	9
Howard County		8.2%	8
Kent County		1.0%	1
Montgomery County		18.6%	18
Prince Georges County		8.2%	8
Queen Anne's County		1.0%	1
Somerset County		0.0%	0
St. Mary's County		2.1%	2
Talbot County		0.0%	0
Washington County		1.0%	1
Wicomico County		2.1%	2

Worcester County	0.0%	0
answered question		97
skipped question		0


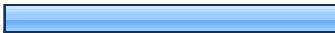
7. Which of the following best describes your school's location?

		Response Percent	Response Count
Urban		19.6%	19
Suburban		57.7%	56
Rural		22.7%	22
Online		0.0%	0
answered question		97	
skipped question		0	



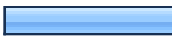




8. Which of the following are offered at your high school? (Check all that apply.)

		Response Percent	Response Count
Keyboarding		38.1%	37
An introductory computer science course (pre-AP)		59.8%	58
Advanced Placement Computer Science (AP)		56.7%	55
Oracle Academy		3.1%	3
Cisco Academy		19.6%	19
Other CS/IT courses		41.2%	40
None of the above; My school does not offer CS/IT courses		8.2%	8
		answered question	97
		skipped question	0

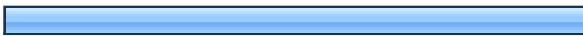

9. Which of the following best describes CS/IT your school?

		Response Percent	Response Count
CS/IT courses have never been offered at my school		50.0%	4
CS/IT courses were offered in the past at my school, but have been discontinued		50.0%	4
		Comments:	1
		answered question	8
		skipped question	89




10. What are some of the reasons why your school does not offer computer science courses? (Check all that apply.)

		Response Percent	Response Count
Insufficient student interest		62.5%	5
Budget restrictions		62.5%	5
Lack of qualified teachers		25.0%	2
CS is not a graduation requirement		25.0%	2
CS is not a priority for my high school		37.5%	3
CS is not a priority for the school system		25.0%	2
Other (please specify)		12.5%	1
answered question			8
skipped question			89


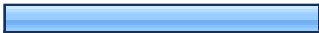




11. In your judgement, do you think that your school should offer CS courses?

		Response Percent	Response Count
Yes		87.5%	7
No		12.5%	1
answered question			8
skipped question			89



12. If your school offered CS/IT courses would you be interested in teaching them?

		Response Percent	Response Count
Yes		12.5%	1
No		37.5%	3
Maybe		50.0%	4
answered question			8
skipped question			89



13. Under what department(s) is CS offered in your school? (Check all that apply.)

		Response Percent	Response Count
Business		65.1%	54
Technology		47.0%	39
Computing		13.3%	11
Math		10.8%	9
Science		3.6%	3
Other (please specify)		9.6%	8
answered question			83
skipped question			14

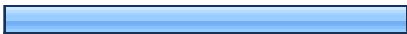

14. Does your district or state require you to teach a specific computer science course curriculum that includes specific content and outcomes?

		Response Percent	Response Count
Yes		62.4%	53
No		37.6%	32
	Comments		7
answered question			85
skipped question			12

15. Are these requirements enforced?

		Response Percent	Response Count
Yes		50.6%	40
No		49.4%	39
	Comments		6
answered question			79
skipped question			18



16. Does your school offer an introductory (pre-AP) Computer Science (CS) course?

		Response Percent	Response Count
Yes		60.5%	52
No		39.5%	34
answered question			86
skipped question			11



17. What is the title of the introductory CS course, offered at your school?

	Response Count
	44
answered question	44
skipped question	53

18. Are students required to take introductory CS?

		Response Percent	Response Count
Yes		20.8%	10
No		79.2%	38
	Comments		8
	answered question		48
	skipped question		49

19. Does the CS introductory course offered in your school have prerequisites?

		Response Percent	Response Count
Yes		47.8%	22
No		52.2%	24
	If yes, what are the prerequisites?		22
	answered question		46
	skipped question		51






20. How many students enrolled in introductory CS this year at your high school?

		Response Percent	Response Count
1-10		4.3%	2
11-25		34.8%	16
26-50		28.3%	13
51-100		17.4%	8
101+		15.2%	7
answered question			46
skipped question			51

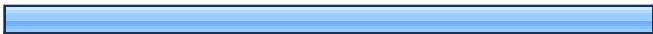
















21. What approximate percentage of students enrolled in introductory CS are female?

		Response Percent	Response Count
0%		8.7%	4
1-20%		60.9%	28
21-40%		26.1%	12
41-60%		4.3%	2
61-80%		0.0%	0
81-99%		0.0%	0
100%		0.0%	0
answered question			46
skipped question			51

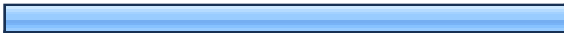








22. What approximate percentage of students enrolled in introductory CS are members of an ethnic minority?

		Response Percent	Response Count
0%		2.2%	1
1-20%		52.2%	24
21-40%		26.1%	12
41-60%		10.9%	5
61-80%		0.0%	0
81-99%		8.7%	4
100%		0.0%	0
answered question			46
skipped question			51

23. What content is covered in introductory CS? (Check all that apply.)

		Response Percent	Response Count
Programming		97.8%	44
Problem solving		86.7%	39
Ethics and social issues		51.1%	23
Hardware		48.9%	22
Graphics		28.9%	13
Web development		17.8%	8
Computer security		15.6%	7
Game programming		26.7%	12
Productivity software		8.9%	4
Databases		2.2%	1
Networks		8.9%	4
Logic		64.4%	29
Information about computing/IT careers		48.9%	22
Information about computing/IT majors/programs at 2-year colleges		8.9%	4
Information about computing/IT majors at 4-year colleges		17.8%	8
Information about the Maryland computing/IT job market		8.9%	4
Information about employers' commitment to diversity in computing/IT		6.7%	3
answered question			45
skipped question			52

24. What programming languages/software tools are used in introductory CS? (Check all that apply.)

		Response Percent	Response Count
Java		84.4%	38
Alice		35.6%	16
Visual Basic		15.6%	7
Scratch		11.1%	5
java script		6.7%	3
C++		35.6%	16
Python		11.1%	5
Greenfoot		0.0%	0
C#		0.0%	0
HTML		15.6%	7
Other (please specify)		13.3%	6
answered question			45
skipped question			52

25. What type of credit is earned by the introductory CS (pre-AP) courses? (Check all that apply.)

		Response Percent	Response Count
Technology Education Credit		42.2%	19
Computing Credit		4.4%	2
Business Credit		8.9%	4
Math Credit		6.7%	3
Science Credit		2.2%	1
General Elective Credit		46.7%	21
Other Credit		6.7%	3

Other (please specify) 4

answered question 45

skipped question 52

26. Does your school offer AP Computer Science?

		Response Percent	Response Count
Yes		60.5%	49
No		39.5%	32

answered question 81

skipped question 16

27. How many students take AP CS each year?

		Response Percent	Response Count
1-10		25.0%	12
11-25		52.1%	25
26-50		12.5%	6
51-100		10.4%	5
101+		0.0%	0
answered question			48
skipped question			49

28. What percentage of students enrolled in AP CS are female?

		Response Percent	Response Count
0%		10.4%	5
1-20%		77.1%	37
21-40%		10.4%	5
41-60%		2.1%	1
61-80%		0.0%	0
81-99%		0.0%	0
100%		0.0%	0
answered question			48
skipped question			49




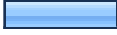





29. What percentage of students enrolled in AP CS are members of an ethnic minority?

		Response Percent	Response Count
0%		6.3%	3
1-20%		66.7%	32
21-40%		12.5%	6
41-60%		8.3%	4
61-80%		0.0%	0
81-99%		6.3%	3
100%		0.0%	0
answered question			48
skipped question			49



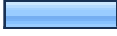


30. Does your school offer CS/IT courses other than introductory and AP Computer Science?

		Response Percent	Response Count
Yes		64.6%	51
No		35.4%	28
answered question			79
skipped question			18

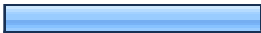



31. If your school offers other CS/IT courses, which of the following are offered? (Check all that apply.)

		Response Percent	Response Count
Keyboarding		37.9%	25
Web design		56.1%	37
Computer graphics		39.4%	26
Computing communications/media		16.7%	11
Programming		42.4%	28
Networking		34.8%	23
Game development		18.2%	12
Computer security		7.6%	5
Other (please specify)		18.2%	12
		answered question	66
		skipped question	31




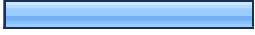






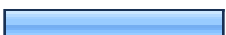
32. How many years have you been teaching CS/IT?

		Response Percent	Response Count
0 years		12.7%	10
1-3 years		24.1%	19
4-7 years		16.5%	13
8-14 years		21.5%	17
15+ years		25.3%	20
		answered question	79
		skipped question	18

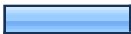


33. In a typical year, what percentage of the courses you teach are CS/IT courses?

		Response Percent	Response Count
0%-25%		38.5%	30
26%-50%		16.7%	13
51%-75%		12.8%	10
76%-100%		32.1%	25
answered question			78
skipped question			19



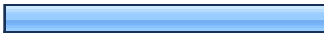

34. Which of the following courses have you taught in the past three years? (Check all that apply.)

		Response Percent	Response Count
Keyboarding		14.3%	10
Introductory CS		54.3%	38
AP CS		40.0%	28
Web design		37.1%	26
Computer graphics		11.4%	8
Computing communications/media		10.0%	7
Programming		44.3%	31
Networking		14.3%	10
Game development		11.4%	8
Computer security		4.3%	3
Other (please specify)		32.9%	23
		answered question	70
		skipped question	27

35. Do you use all or part of the standard curriculum as outlined in the ACM/CSTA Model Curriculum for K-12 Computer Science?

		Response Percent	Response Count
Yes		18.4%	14
No, but I know about the ACM/CSTA Model Curriculum		31.6%	24
No, and I never heard of the ACM/CSTA Model Curriculum		50.0%	38
answered question			76
skipped question			21

36. Are the courses that you teach part of any of the following? (Check all that apply.)

		Response Percent	Response Count
Oracle Academy		2.1%	1
Cisco Academy		16.7%	8
Other CTE IT courses		47.9%	23
Locally developed CS/IT courses not part of CTE course offerings		52.1%	25
answered question			48
skipped question			49

37. How have the CS enrollments changes in your school over the past three (3) years?

		Response Percent	Response Count
Increased		32.0%	24
Decreased		29.3%	22
Stayed about the same		38.7%	29
	Comments:		11
	answered question		75
	skipped question		22



38. In your judgement, do you think there are students who should be taking CS course(s) that your school offers, but who are not?

		Response Percent	Response Count
Yes		85.3%	64
No		14.7%	11
	answered question		75
	skipped question		22

39. Why are these students not taking the CS courses your school offers? (Rate each reason.)

	Very common	Somewhat common	Uncommon	Response Count
No room in timetable	58.2% (39)	35.8% (24)	6.0% (4)	67
Greater interest in other subjects	37.5% (24)	53.1% (34)	9.4% (6)	64
Elective courses are less important	50.7% (34)	38.8% (26)	10.4% (7)	67
Subject matter too difficult	23.9% (16)	50.7% (34)	25.4% (17)	67
CS is perceived to be "geeky"	23.8% (15)	49.2% (31)	27.0% (17)	63
Perceived as male-dominated	23.1% (15)	46.2% (30)	30.8% (20)	65
Perception of limited job opportunities	1.6% (1)	18.8% (12)	79.7% (51)	64
Lack of knowledge about careers in computing	28.8% (19)	48.5% (32)	22.7% (15)	66
Unaware of CS courses being offered by school	31.3% (20)	39.1% (25)	29.7% (19)	64
Don't understand importance of CS coursework	53.1% (34)	37.5% (24)	9.4% (6)	64
Rather take other enrichment classes such as music	30.2% (19)	47.6% (30)	22.2% (14)	63
Lack of knowledge about CTE programs of study	43.9% (29)	39.4% (26)	16.7% (11)	66
CTE courses perceived as not rigorous enough for college-bound students	22.4% (15)	32.8% (22)	44.8% (30)	67
answered question				69
skipped question				28



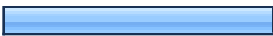




40. In your judgement, do you think that your school should offer more CS courses?

		Response Percent	Response Count
Yes		67.5%	52
No		32.5%	25
		answered question	77
		skipped question	20

41. If yes, what CS courses should be added?

		Response Count
		45
		answered question
		45
		skipped question
		52

42. What are some of the reasons why your school does not offer more computer science courses? (Check all that apply.)

		Response Percent	Response Count
Insufficient student interest		48.1%	37
Budget restrictions		51.9%	40
Lack of qualified teachers		40.3%	31
CS is not a graduation requirement		62.3%	48
CS is not a priority for my high school		42.9%	33
CS is not a priority for the school system		50.6%	39
Other (please specify)		11.7%	9
answered question			77
skipped question			20

43. What do you perceive as the greatest challenges in teaching CS? (Please rate each challenge.)

	Great Challenge	Moderate challenge	Minor/no challenge	Response Count
Lack of student interest/enrollment	37.2% (29)	48.7% (38)	14.1% (11)	78
Rapidly changing technology	33.8% (26)	49.4% (38)	16.9% (13)	77
Difficult subject matter	27.6% (21)	47.4% (36)	25.0% (19)	76
Lack of support/interest by school staff	39.7% (31)	38.5% (30)	21.8% (17)	78
Lack of student subject knowledge	27.6% (21)	55.3% (42)	17.1% (13)	76
Lack of curriculum resources	34.7% (26)	34.7% (26)	30.7% (23)	75
Lack of hardware/software resources	38.2% (29)	27.6% (21)	34.2% (26)	76
Lack of teacher subject knowlege	16.9% (13)	39.0% (30)	44.2% (34)	77
answered question				80
skipped question				17

44. Challenges continued. (Please rank each of the following.)

	Great challenge	Moderate challenge	Minor/no challenge	Response Count
Lack of student math preparation	28.9% (22)	59.2% (45)	11.8% (9)	76
Lack of support/interest by school leadership	35.5% (27)	38.2% (29)	26.3% (20)	76
Lack of computer lab space	23.7% (18)	27.6% (21)	48.7% (37)	76
Lack of computer lab/IT support personnel	18.4% (14)	34.2% (26)	47.4% (36)	76
Lack of guidance staff knowledge about importance of CS	45.5% (35)	42.9% (33)	11.7% (9)	77
Lack of parental encouragement for students to take CS	39.2% (31)	49.4% (39)	11.4% (9)	79
Lack of parental knowledge about the importance of CS	46.2% (36)	41.0% (32)	12.8% (10)	78
Lack of a professional community of other CS instructors	24.7% (19)	46.8% (36)	28.6% (22)	77
Lack of professional development opportunities	17.3% (13)	48.0% (36)	34.7% (26)	75
Understanding state curriculum standards	14.5% (11)	42.1% (32)	43.4% (33)	76
Creating a curriculum that satisfies district and state standards	19.7% (15)	43.4% (33)	36.8% (28)	76
Being asked to teach multiple CS related courses in the same classroom at the same time	36.8% (28)	36.8% (28)	26.3% (20)	76
Teacher lack of knowledge of Maryland job market	7.9% (6)	36.8% (28)	55.3% (42)	76
Teacher lack of knowledge of CS career paths	6.6% (5)	31.6% (24)	61.8% (47)	76
Inability to attract women and minorities to CS classes	27.6% (21)	47.4% (36)	25.0% (19)	76
Lack of internships for students	21.1% (16)	47.4% (36)	31.6% (24)	76

answered question 79

skipped question 18

45. What do you perceive as the greatest professional development needs?

	Great need	Moderate need	Minor/no need	Response Count
Time for training	63.2% (48)	26.3% (20)	10.5% (8)	76
Sufficient training opportunities	54.7% (41)	32.0% (24)	13.3% (10)	75
Training cost (and lack of reimbursement)	60.5% (46)	25.0% (19)	14.5% (11)	76
Training facilities and resources	44.7% (34)	34.2% (26)	21.1% (16)	76
Sufficient training opportunities nearby	45.3% (34)	38.7% (29)	16.0% (12)	75
Readily available information about upcoming training opportunities	32.0% (24)	45.3% (34)	22.7% (17)	75
Timely information about training opportunities	35.5% (27)	39.5% (30)	25.0% (19)	76
More training at convenient times during school year	42.1% (32)	50.0% (38)	7.9% (6)	76
More training offered during the summer	46.1% (35)	34.2% (26)	19.7% (15)	76
			answered question	77
			skipped question	20





46. What do you believe to be the most effective methods for delivering professional development to CS teachers? (Please rank each.)

	Most effective	Somewhat effective	Least effective	Response Count
Workshops/seminars	67.1% (51)	27.6% (21)	5.3% (4)	76
Online resources	43.2% (32)	47.3% (35)	9.5% (7)	74
Networking with others	52.1% (38)	38.4% (28)	9.6% (7)	73
Computer-based tutorials	41.7% (30)	44.4% (32)	13.9% (10)	72
Professional conferences	42.7% (32)	45.3% (34)	12.0% (9)	75
College courses	53.4% (39)	37.0% (27)	9.6% (7)	73
		Other effective methods (please specify)		7
answered question				77
skipped question				20



















47. Please rank your preference/the convenience of each of the following times for your participation in professional development activities?




	Most prefer/most convenient	Prefer slightly/Somewhat convenient	Definitely not/Not convenient	Response Count
After school-4:30-6:00 pm	34.2% (25)	27.4% (20)	38.4% (28)	73
Saturday morning during school year	14.9% (11)	25.7% (19)	59.5% (44)	74
Saturday afternoon during school year	11.0% (8)	16.4% (12)	72.6% (53)	73
Summer-weekdays in June immediately after school ends	58.2% (46)	25.3% (20)	16.5% (13)	79
Summer-weekdays in July	37.8% (28)	35.1% (26)	27.0% (20)	74
Summer-weekdays in early August	33.3% (25)	40.0% (30)	26.7% (20)	75
Summer-Saturdays	9.7% (7)	15.3% (11)	75.0% (54)	72
			answered question	79
			skipped question	18

48. Which of the following certifications do you currently hold? (Check all that apply)





		Response Percent	Response Count
Professional Eligibility Certificate (PEC)		0.0%	0
Standard Professional Certificate I (SPC I)		21.0%	17
Standard Professional Certificate II (SPCII)		2.5%	2
Advanced Professional Certificate (APC)		75.3%	61
Resident Teacher Certificate (RTC)		1.2%	1
Conditional Certificate (COND)		0.0%	0
		answered question	81
		skipped question	16

49. In which of the following areas are you certified to teach in Maryland?





		Response Percent	Response Count
Agriculture/Agribusiness and Renewable Natural Resources		1.2%	1
Biology		4.8%	4
Business Education		31.0%	26
Chemistry		4.8%	4
Computer Science		40.5%	34
Data Processing		1.2%	1
Earth/Space Science		0.0%	0
English		4.8%	4
Family and Consumer Sciences		6.0%	5
Family and Consumer Sciences/Career Technology Education		3.6%	3
Foreign Language: Classical		1.2%	1
Foreign Language: Modern		1.2%	1
Geography		1.2%	1
Health Occupations Education		0.0%	0
History		2.4%	2
Marketing Education - Teacher- Coordinator		2.4%	2
Mathematics		27.4%	23
Physical Science		1.2%	1
Physics		2.4%	2
Social Studies		6.0%	5
Speech Communication		0.0%	0

Technology Education		42.9%	36
Theater		0.0%	0
Trades and Industry		4.8%	4
Work-Based Learning Coordinator (endorsement only)		0.0%	0
Other (please specify)		13.1%	11
answered question			84
skipped question			13



50. How many years have you been teaching?

		Response Percent	Response Count
1-3 years		3.5%	3
4-7 years		21.2%	18
8-14 years		29.4%	25
15+ years		45.9%	39
answered question			85
skipped question			12






51. How do you identify yourself? (Check all that apply.)

		Response Percent	Response Count
African American/Black		13.1%	11
Asian American/Pacific Islander		3.6%	3
Caucasian/White		79.8%	67
Hispanic		0.0%	0
Native American/Indigenous		0.0%	0
Other (please specify)		4.8%	4
answered question			84
skipped question			13

52. Sex:

		Response Percent	Response Count
Female		46.4%	39
Male		53.6%	45
answered question			84
skipped question			13

53. What is your age?

		Response Percent	Response Count
22-30		6.0%	5
31-40		20.5%	17
41-50		31.3%	26
51-60		33.7%	28
61+		8.4%	7
answered question			83
skipped question			14