

Economic Impact Survey for Computer Science Standards

The Office of Public Instruction must utilize a negotiated rulemaking committee to consider proposed changes to accreditation standards (including content standards). In addition to the negotiated rulemaking committee requirement, the OPI is charged with writing an economic impact analysis in accordance with MCA 2-4-405.

In order to carefully prepare the economic impact analysis, the OPI would appreciate your responses to the questions in this survey. We recommend a review of current expenditures for personnel, instructional materials, professional development, and curriculum development for the computer science content and program standards before responding to the questions. If adopted by the Board of Public Education, new standards would go into effect on July 1, 2021.

There are 34 questions: 8 are required, 26 are optional. It will take approximately 15 minutes to review the proposed standards and 20 minutes to complete the survey. The survey is due by midnight on January 31, 2020.

LINK TO DRAFT DOCUMENT HERE: <http://opi.mt.gov/LinkClick.aspx?fileticket=19meBFa823Q%3d&portalid=182>

If you have any questions about this survey, contact Colet Bartow, Director of Content Standards and Instruction at cbartow@mt.gov or 406-444-3583.

* Required

1. Email address *

Demographic Information

Each of these questions requires a response before moving on.

2. First and Last Name *

3. What is your role? *

Check all that apply.

- School Administrator
 School Business Official
 School Board Trustee
 Teacher
 Other: _____

4. What school size do you represent? *

Mark only one oval.

- Small School (fewer than 126 students)
 Class C
 Class B
 Class A
 Class AA
 Other: _____

5. What school type do you represent? *

Check all that apply.

- Elementary
 Middle School/Junior High
 High School
 Other: _____

6. School or District Name *

7. ZIP Code *

8. May we contact you to follow up on your comments or questions? *

Mark only one oval.

- Yes
 No

Content Standards Implementation

If you answer YES to the following question, please skip to the bottom of the survey and submit. You may still comment on each section, but you are not required to respond to additional questions about cost or impacts.

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9. Do you anticipate that your district will be able to implement the proposed standards with existing resources? *

Mark only one oval.

- Yes
 No

10. What year would your district implement these standards?

See ARM 10.55.603 CURRICULUM AND ASSESSMENT - curricula and materials are to be reviewed at least every five years. <http://mtrules.org/gateway/RuleNo.asp?RN=10%2E55%2E603>

Mark only one oval.

- 2021
 2022
 2023
 2024
 2025

Program Delivery Standards

The program delivery standards are part of ARM Chapter 55 - Accreditation. They describe the conditions and practices that must be in place to deliver an instructional program for specific content areas.

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Because this is a new content area, there are no previous program delivery standards to compare.

1. In general, a basic program in computer science education shall:

a. meet the following conditions:

i. provide a well-articulated integrated curriculum that challenges students to learn increasingly more sophisticated computer science concepts across all grade levels and content areas wherever appropriate

ii. foster a collaborative environment that embraces creativity, communication, and problem solving

b. include the following practices:

i. ensure students become informed citizens who can critically engage in public discussion on computer science related topics

ii. ensure students develop as learners, users, and creators of computer science knowledge and artifacts

iii. ensure students understand the role and impact of computing in the world around them, leveraging computer technology to create solutions

iv. increase career and college readiness

11. Will your district be able to implement the proposed program delivery standards for computer science?

Mark only one oval.

- Yes
 No

12. If no, what are the two most significant challenges to implementation?

Please check 2 or describe any "other" challenges.

Check all that apply.

- Instructional Materials
 Personnel
 Professional Development
 Curriculum Development
 Other: _____

Instructional Materials

Instructional materials include any consumable workbooks, textbooks, digital resources, equipment or other items selected by the district board of trustees to implement a curriculum aligned to the state standards.

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13. Will your district have difficulty finding instructional materials to implement the proposed standards?

Mark only one oval.

- Yes
 No
 Maybe

14. If you answered "no" or "maybe" please provide additional feedback.

15. What increase in total dollars would be required to cover the cost associated with Instructional Materials? (best estimate)

Personnel

Personnel includes any administrative, licensed teachers, or support staff.

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16. Does your district have a shortage of teachers endorsed in computer science?

Mark only one oval.

- Yes
 No

17. Will your district have a shortage of teachers endorsed to teach computer science?

Mark only one oval.

- Yes
 No

18. If you answered "no" to any of the questions above, please provide additional feedback.

19. How many new hires would be needed?

20. What increase in total dollars would be required to cover the cost associated with Personnel?

Professional Learning

Professional learning includes any form of training that a district may use to build employee knowledge and skills.

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21. Does your district currently have difficulty in finding professional development opportunities for computer science educators?

Mark only one oval.

- Yes
 No

22. Will your district have difficulty finding professional development opportunities for computer science educators?

Mark only one oval.

- Yes
 No

23. If you answered "yes" to any of the questions above, please provide additional feedback.

24. What increase in total dollars would be required to cover the cost associated with professional development?

25. What professional development would be needed?

Describe the format or content as specifically as possible.

26. How many teachers would need this professional development?

27. How many hours of professional development would be needed for each teacher?

Curriculum Development

Separate from identifying instructional materials, please provide feedback specific to your district's curriculum development process and timelines.

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28. Would the proposed standards, if adopted, require your district to substantially revise its current curriculum?

Mark only one oval.

- Yes
 No
 Maybe

29. Will your district have a shortage of time and resources to support curriculum development in computer science?

Mark only one oval.

- Yes
 No
 Maybe

30. If you answered "yes" or "maybe" to any of the questions above, please provide additional feedback.

31. What new purchases would be needed?

32. What increase in total dollars would be required to cover the cost associated with curriculum development? (best estimate)

33. How many personnel would be involved in curriculum development?

34. How many hours of professional time would be needed in total for curriculum development?

YOUR TURN: General Feedback

Please expand on any significant issue that you have indicated in your responses.

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35. Is there anything else you believe the OPI should consider in determining a fiscal impact for implementing new program delivery and content standards?
