

Computer Science, Library Media/Information Literacy, and Technology Integration

Content Standards Revision January 10, 2020





PUBLIC MEETING

All comments received become part of the official public record of the Negotiated Rulemaking Committee proceedings in accordance with MCA 2-3-212.

This meeting is being recorded and streamed via MPAN.

Please use the microphone whenever you are speaking.

Remote participants are joining this meeting via conference call.



MEETING AGENDA

Call to Order Housekeeping Review Process and Guidelines Proposed Rule Changes •Complete Computer Science Discussion Technology Integration Lunch Proposed Rule Changes Technology Integration (continued) Library Media / Information Literacy **Economic Impact Survey Questionnaire** Negotiated Rulemaking Timeline **Public Comment**



Adjourn

HOUSEKEEPING

Restrooms and Breaks

Connectivity Check/ Device Setup

Committee Agenda Packet

Lunch break at 12 p.m.

Work Session concludes at 4 p.m.



CALL TO ORDER



ROLES AND RESPONSIBILITIES

Committee Members

- review drafts prepared by the revision team to provide feedback and a recommendation to the Superintendent on the draft
- assist in determining the economic impact of the draft

OPI and BPE Staff

support the work of the committee



PROCESS

Where are WE?

Montana Constitution

Montana Code Annotated (Legislature)



Administrative Rules of Montana (OPI→NR Committee→OPI→BPE)

Policy (School Trustees)

Procedure (School Administrator)



NRC PROPOSED TIMELINE

NRC meets December 5, 2019 Economic Impact Analysis Survey opens December 18, 2019 (CS Only)

NRC meets January 10, 2020 Economic Impact Analysis Survey closes January 31, 2020 Negotiated Rulemaking Comment period ends January 31, 2020

NRC meets February 12, 2020 NRC recommendation due to Superintendent February 14, 2020 Economic Impact
Analysis due to
Education Interim
Committee
February 19,
2020



MAPA PROPOSED TIMELINE

Introduction of work on rule changes to BPE March 2020 Education
Interim
Committee
reviews
Economic
Impact
Analysis
March 2020

Proposed new rules to BPE for approval May 2020 Proposed notice of hearing to BPE for approval of publication May 2020

Proposed notice to SOS for notice in MAR June 2020

Public Hearing date in July/August 2020 Final Public Input deadline August 2020 Adoption
Notice to
BPE for
adoption of
rules August
2020

BPE Adopts Rules September 2020 Effective Date of Rules July 1, 2021



BACKGROUND AND CONTEXT FOR RULE CHANGE

The Board of Public Education sets forth the following guidelines for content standards revision:

- Standards will define what all students should know and be able to do;
- Standards will be challenging and rigorous;
- Standards will be clear, understandable, and free of jargon;
- Standards will be measurable;
- Standards will address diversity, specifically fulfilling the commitment to implementing Indian Education for All;
- Standards will be consistent with the grade level and grade band structures in ARM Chapter 53; and
- Content standards will be consistent with the program delivery standards described in ARM Chapter 55.



BACKGROUND AND CONTEXT FOR RULE CHANGE

With the purpose of engaging in a transparent and inclusive process, the Board of Public Education sets forth the following considerations for the Office of Public Instruction to incorporate when recommending standards revision:

- comments and recommendations from the Montana public;
- international, national, and other states' standards;
- implications for program delivery standards (ARM Chapter 55) and licensure standards (ARM Chapter 57);
- implications for local and state assessments;
- entrance expectations for the workplace and post-secondary education;
- student achievement and other related data;
- other evidence-based practices and research on standards and learning expectations from regional, national, and international professional education organizations;
- comments from Montana's professional education associations;
- comments from tribal and school district educators;
- comments from Montana's institutions of higher education and the Office of the Commissioner of Higher Education; and
- recommendations from the Montana Advisory Council for Indian Education and Certification Standards and Practices Advisory Council.



BACKGROUND AND CONTEXT FOR NEW COMPUTER SCIENCE RULES

Computer science skills are necessary for college and career readiness

• Today's and tomorrow's jobs require computational thinking, programming, and problem solving skills

Organized by grade level for K-5 and by grade band for 6-8 and 9-12

- Grade level standards for K-5 clarify learning expectations for elementary teachers who teach in all content areas
- Grade band standards for 6-8 and 9-12 clarify expectations and allow for flexibility of program delivery

Integration of Indian Education for All

Progression of skills and content from K-12



BACKGROUND AND CONTEXT FOR RULE CHANGES TO TECHNOLOGY INTEGRATION

Current technology content standards were adopted in 2008

Program delivery standards (Ch 55) were not proposed or adopted

Organized by grade level for K-5 and by grade band for 6-8 and 9-12

- Grade level standards for K-5 clarify learning expectations for elementary teachers who teach in all content areas
- Grade band standards for 6-8 and 9-12 clarify expectations and allow for flexibility of program delivery

Integration of Indian Education for All

Emphasis on technology integration across content and contexts



BACKGROUND AND CONTEXT FOR RULE CHANGES TO LIBRARY MEDIA

Current Library Media/Information Literacy content standards were adopted in 2008

• Program delivery standards (Ch 55) were not updated in 2008

Organized by grade level for K-5 and by grade band for 6-8 and 9-12

- Grade level standards for K-5 clarify learning expectations for elementary teachers who teach in all content areas
- Grade band standards for 6-8 and 9-12 clarify expectations and allow for flexibility of program delivery

Integration of Indian Education for All

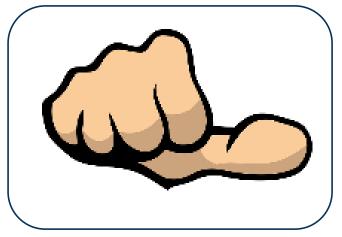
Emphasis on the skills students need to be information literate in any information or problem solving environment



PROPOSED RULE CHANGES



A thumb held up indicates that I understand and am in agreement with the proposal.



A thumb held sideways indicates that I do not understand the proposal.



A thumb held down indicates that I understand and do not agree with the proposal.



DRAFT PROPOSALS

Content Standards •ARM Chapter 53 and 54

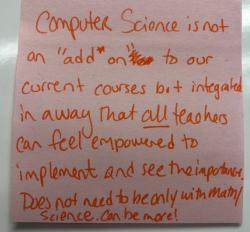
Program Delivery Standards •ARM Chapter 55

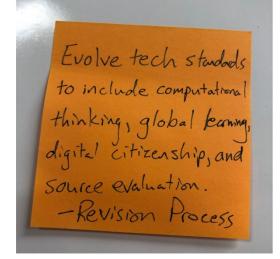


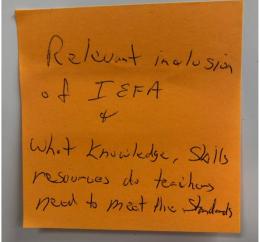
DIGGING IN

Review and Consensus Process











ECONOMIC IMPACT SURVEY

Review template

- Additions?
- Clarification?

Next steps

 Sent to school administrators, business officials, and other interested parties via online survey



WRAP UP FOR COMMITTEE

Next Meeting:

February 12, 2020

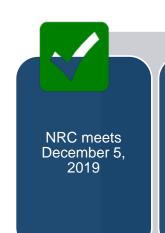
Hearing Room 102, Capitol Building

Helena, Montana

9:30 a.m. to 4:00 p.m.



NRC PROPOSED TIMELINE





Economic Impact Analysis Survey opens December 18, 2019 (CS Only)



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PUBLIC COMMENT

Please introduce yourself and spell your last name.

If you are speaking on behalf of an organization, identify the organization and your association with the organization.



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ADJOURN

Thank you for your commitment to Montana Education.

Safe Travels!

