

BOARD OF PUBLIC EDUCATION

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Subchapter 1

State Administrative Procedural Standards

10.58.101 ADVISORY GROUP (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; REP, 1988 MAR p. 1526, Eff. 7/15/88.)

10.58.102 PROCESS LEADING TO ACCREDITATION OF EDUCATOR PREPARATION PROVIDERS (1) The Board of Public Education shall adopt procedures for the accreditation review of educator preparation providers.

(2) The Superintendent of Public Instruction shall implement the Board of Public Education's procedures by conducting accreditation site reviews.

(a) The Superintendent of Public Instruction shall establish a cadre of qualified educators to serve on review teams. Team members representing accredited K-20 education entities shall:

(i) be nominated by K-20 teachers, administrators, supervisors, and members of professional organizations, educational boards, and agencies; and

(ii) have a minimum of five years of professional education experience.

(b) The Superintendent of Public Instruction shall conduct workshops that prepare educators to serve as team members of site reviews.

(c) Performance of team members shall be evaluated by the team chairperson and the Office of Public Instruction's educator preparation program director.

(d) Team chairpersons and members shall not be assigned to serve in the review of educator preparation providers where a conflict of interest may interfere with the integrity of the review.

(3) Members of the Board of Public Education shall be invited to observe accreditation site reviews. (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.103 ACCREDITATION SITE REVIEWS (1) Educator preparation providers (EPPs) shall sponsor an accreditation site review every seven years or on an adjusted schedule based upon coordination with national accreditation or upon request of the EPP or the Board of Public Education.

(2) Joint accreditation site reviews and cooperation with the Council for the Accreditation of Educator Preparation (CAEP) will be encouraged.

(3) Educator preparation providers are required to engage in continuous improvement. (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1986 MAR p. 1307, Eff. 8/1/86; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2005 MAR p. 576, Eff. 4/15/05; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.104 ACCREDITED PROGRAMS (1) The Superintendent of Public Instruction shall report to the public the educator preparation providers' accreditation status in meeting the Board of Public Education's standards for professional educator preparation.

(2) Pursuant to 20-4-121, MCA, the report shall include educator preparation providers and the corresponding regional and national accreditation agencies. The report shall include the initial and expiration dates of all accredited programs.

(a) Each educator preparation provider shall annually provide information pursuant to (2) to the Office of Public Instruction.

(b) The report shall be accessible to K-20 educators and the general public within the state, and to other state education agencies, and shall be posted to the Office of Public Instruction and Board of Public Education web sites. (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.105 OPTIONAL COMPLIANCE (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; REP, 1984 MAR p. 831, Eff. 5/18/84.)

Subchapter 2

Organization and Administration of Teacher Education

10.58.201 PURPOSES AND OBJECTIVES (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 2000 MAR p. 2406, Eff. 9/8/00; REP, 2007 MAR p. 190, Eff. 2/9/07.)

10.58.202 ORGANIZATION (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 2000 MAR p. 2406, Eff. 9/8/00; REP, 2007 MAR p. 190, Eff. 2/9/07.)

10.58.203 STUDENT ADMISSION, RETENTION, AND EXIT POLICIES AND PRACTICES (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 2000 MAR p. 2406, Eff. 9/8/00; REP, 2007 MAR p. 190, 2/9/07.)

10.58.204 STUDENT PERSONNEL SERVICES (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 2000 MAR p. 2406, Eff. 9/8/00; REP, 2007 MAR p. 190, Eff. 2/9/07.)

10.58.205 STUDENT PARTICIPATION IN TEACHER EDUCATION PROGRAM DEVELOPMENT AND EVALUATION (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; REP, 2000 MAR p. 2406, Eff. 9/8/00.)

10.58.206 FACULTY (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1994 MAR p. 2722, Eff. 10/14/94; REP, 2000 MAR p. 2406, Eff. 9/8/00.)

10.58.207 INSTRUCTION (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; REP, 2000 MAR p. 2406, Eff. 9/8/00.)

10.58.208 FACILITIES AND INSTRUCTIONAL MATERIALS (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79, AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1994 MAR p. 2722, Eff. 10/14/94; REP, 2007 MAR p. 190, Eff. 2/9/07.)

10.58.209 SCHOOL-INSTITUTION RELATIONS (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1994 MAR p. 2722, Eff. 10/14/94; REP, 2000 MAR p. 2406, Eff. 9/8/00.)

10.58.210 CONCEPTUAL FRAMEWORK(S) (REPEALED) (History: 20-2-114, MCA; IMP, 20-1-501, 20-2-121, MCA; NEW, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; REP, 2014 MAR p. 2936, Eff. 7/1/15.)

Subchapter 3

Curriculum Principles and Standards: Basic Programs

10.58.301 CURRICULUM PLANNING AND DEVELOPMENT (REPEALED)

(History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1994 MAR p. 2722, Eff. 10/14/94; REP, 2000 MAR p. 2406, Eff. 9/8/00.)

10.58.302 GENERAL EDUCATION (REPEALED)

(History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2722, Eff. 10/14/94; REP, 2000 MAR p. 2406, Eff. 9/8/00.)

10.58.303 PROFESSIONAL EDUCATION (REPEALED)

(History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1986 MAR p. 1308, Eff. 8/1/86; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2722, Eff. 10/14/94; REP, 2000 MAR p. 2406, Eff. 9/8/00.)

10.58.304 CANDIDATE KNOWLEDGE, SKILLS, AND DISPOSITIONS

(History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; REP, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.305 ASSESSMENT SYSTEM AND UNIT EVALUATION (REPEALED)

(History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; REP, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.306 FIELD EXPERIENCES AND CLINICAL PRACTICES

(REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; REP, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.307 DIVERSITY (REPEALED)

(History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; REP, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.308 FACULTY QUALIFICATIONS, PERFORMANCE, AND DEVELOPMENT (REPEALED) (History: 20-2-114, MCA; IMP, 20-1-501, 20-2-121, MCA; NEW, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; REP, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.309 UNIT GOVERNANCE AND RESOURCES (REPEALED)

(History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; REP, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.310 Reserved

10.58.311 INITIAL CONTENT AND PEDAGOGICAL KNOWLEDGE (1) The provider ensures that candidates:

(a) demonstrate a deep understanding of the critical concepts and principles of their discipline and are able to use discipline-specific practices flexibly to advance the learning of all P-12 students toward attainment of college- and career-readiness standards;

(b) demonstrate an understanding of the 11 Montana teaching standards (ARM 10.58.501) within the categories "the learner and learning," "content," "instructional practice," and "professional responsibility;"

(c) use research and evidence to develop an understanding of the teaching profession and use both to measure their P-12 students' progress and their own professional practice;

(d) apply content and pedagogical knowledge as reflected in outcome assessments in response to standards of professional associations and national or other accrediting bodies;

(e) demonstrate skills and commitment that afford all P-12 students access to rigorous college- and career-ready standards; and

(f) integrate technology in the design, implementation, and assessment of learning experiences to engage P-12 students, improve learning, and enrich professional practice. (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.312 INITIAL CLINICAL PARTNERSHIPS AND PRACTICE (1) The provider:

(a) ensures that effective partnerships and high-quality clinical practice are central to preparation so that candidates develop the knowledge, skills, and professional dispositions necessary to demonstrate positive impact on all P-12 students' learning and development;

(b) ensures that partners co-construct mutually beneficial P-12 school and community arrangements, including technology-based collaborations for clinical preparation and share responsibility for continuous improvement of candidate preparation. Partnerships for clinical preparation can follow a range of forms, participants, and functions. They establish mutually agreeable expectations for candidate entry, preparation, and exit; ensure that theory and practice are linked; maintain coherence across clinical and academic components of preparation; and share accountability for candidate outcomes;

(c) ensures that partners co-select, prepare, evaluate, support, and retain high-quality clinical educators, both provider- and school-based, who demonstrate a positive impact on candidates' development and P-12 student learning and development. In collaboration with their partners, the provider uses multiple indicators and appropriate technology-based applications to establish, maintain, and refine criteria for selection, professional development, performance evaluation, continuous improvement, and retention of clinical educators in all clinical placement settings; and

(d) works with partners to design clinical experiences of sufficient depth, breadth, diversity, coherence, and duration to ensure that candidates demonstrate their developing effectiveness and positive impact on all students' learning and development. Clinical experiences, including technology-enhanced learning opportunities, are structured to have multiple performance-based assessments at key points within the program to demonstrate candidates' development of the knowledge, skills, and professional dispositions, as delineated in ARM 10.58.311. (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.313 INITIAL CANDIDATE QUALITY, RECRUITMENT, AND SELECTIVITY (1) The provider:

(a) demonstrates that the quality of candidates is a continuing and purposeful part of its responsibility from recruitment, at admission, through the progression of courses and clinical experiences, and to decisions that completers are prepared to teach effectively and are recommended for licensure;

(b) presents plans and goals to recruit and support completion of high-quality initial candidates from a broad range of backgrounds and diverse populations to accomplish its mission:

(i) admitted candidates reflect the diversity of Montana's P-12 students; and

(ii) the provider demonstrates efforts to know and address local, community, tribal, Montana, national, or regional needs for hard-to-staff schools and current shortage fields;

(c) sets admissions requirements, including the CAEP minimum GPA of 3.0 of the average grade point average of its accepted cohort of candidates, gathers data to monitor the applicants and selected pool of candidates and designs the selection to completion policy that includes multiple assessment measures to determine admission, continuation in, and completion of programs, including:

(i) data points that are reliable and valid predictors of candidate success and demonstrate that the standard for high academic achievement and ability is met through multiple evaluations and sources of evidence; and

(ii) data that is regularly and systematically compiled, summarized, and analyzed to improve the applicant pool, and candidate performance, program quality, and unit operations;

(d) establishes and monitors attributes and dispositions beyond academic ability that candidates must demonstrate at admissions and during the program, including selecting criteria, describing the measures used and evidence of the reliability and validity of those measures, and reporting data that show how the academic and nonacademic factors predict candidate performance in the program and effective teaching;

(e) creates criteria for program progression and monitors candidates' advancement from admissions through completion; ensures candidates demonstrate the ability to teach to college- and career-ready standards; and presents multiple forms of evidence to indicate candidates' developing content knowledge, pedagogical content knowledge, pedagogical skills, and the integration of technology in all of these domains;

(f) prior to recommending any completing candidate for licensure, documents that the candidate has reached a high standard for content knowledge in the fields where licensure is sought and can teach effectively with positive impacts on P-12 student learning and development; and

(g) prior to recommending any completing candidate for licensure, documents that the candidate understands the expectations of the profession, including codes of ethics, professional standards of practice, and relevant laws and policies. (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.314 INITIAL PROGRAM IMPACT (1) The provider:

(a) demonstrates the impact of its completers on P-12 student learning and development, classroom instruction, and schools, and the satisfaction of its completers with the relevance and effectiveness of their preparation;

(b) documents impact on P-12 student learning and development using state-supported P-12 data and other measures employed by the provider, including employer surveys and program completer surveys;

(c) demonstrates, through structured and validated observation instruments and surveys, which completers effectively apply the professional knowledge, skills, and dispositions as delineated in ARM 10.58.501;

(d) demonstrates, using measures that result in valid and reliable data that employers are satisfied with the completers' preparation for their assigned responsibilities in working with P-12 students; and

(e) demonstrates, using measures that result in valid and reliable data, that program completers perceive their preparation as relevant to the responsibilities they confront on the job and that the preparation was effective. (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.315 INITIAL PROVIDER QUALITY ASSURANCE AND CONTINUOUS IMPROVEMENT (1) The provider:

(a) maintains a quality assurance system comprised of valid data from multiple measures, including evidence of candidates' and completers' positive impact on P-12 student learning and development; supports continuous improvement that is sustained and evidence-based and that evaluates the effectiveness of its completers; and uses the results of inquiry and data collection to establish priorities, enhance program elements and capacity, and test innovations to improve completers' impact on P-12 student learning and development;

(b) develops a quality assurance system comprised of multiple measures that can monitor candidate progress, completer achievements, and provider operational effectiveness;

(c) ensures that its quality assurance system relies on data that are relevant, verifiable, representative, cumulative; provides specific guidance for improvement; and produces empirical evidence that interpretations of data are valid and consistent;

(d) regularly and systematically assesses performance against its goals and relevant standards, tracks results over time, tests innovations and the effects of selection criteria on subsequent progress and completion, and uses results to improve program elements and processes;

(e) ensures that measures of completer impact on P-12 learning and development are based on established best practices, summarized, analyzed, shared widely, and acted upon in decision making related to programs, resource allocation, and future direction; and

(f) assures that appropriate stakeholders, including alumni, employers, practitioners, school and community partners, and others defined by the provider, are involved in program evaluation, improvement, and identification of models of excellence. (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 2014 MAR p. 2936, Eff. 7/1/15.)

Subchapter 4

Teaching Areas: General Standards

10.58.401 FIELDS OF SPECIALIZATION (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1994 MAR p. 2722, Eff. 10/14/94; REP, 2000 MAR p. 2406, Eff. 9/8/00.)

10.58.402 DEVELOPMENT OF TEACHER EDUCATION PROGRAM (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; REP, 2000 MAR p. 2406, Eff. 9/8/00.)

10.58.403 STATEMENT OF PURPOSE AND OBJECTIVES (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1994 MAR p. 2722, Eff. 10/14/94; REP, 2000 MAR p. 2406, Eff. 9/8/00.)

10.58.404 STATEMENT OF COMPETENCIES (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1994 MAR p. 2722, Eff. 10/14/94; REP, 2000 MAR p. 2406, Eff. 9/8/00.)

10.58.405 PROGRAM OF STUDY (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2722, Eff. 10/14/94; REP, 2000 MAR p. 2406, Eff. 9/8/00.)

10.58.406 PROGRAM EVALUATION (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1994 MAR p. 2722, Eff. 10/14/94; REP, 2000 MAR p. 2406, Eff. 9/8/00.)

10.58.407 PROGRAM SUPPORT (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; REP, 2000 MAR p. 2406, Eff. 9/8/00.)

10.58.408 STAFF (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; REP, 2000 MAR p. 2406, Eff. 9/8/00.)

10.58.409 GENERAL EDUCATION (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 2000 MAR p. 2406, Eff. 9/8/00; REP, 2007 MAR p. 190, Eff. 2/9/07.)

10.58.410 PROFESSIONAL EDUCATION (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 2000 MAR p. 2406, Eff. 9/8/00; REP, 2007 MAR p. 190, Eff. 2/9/07.)

Subchapter 5

Teaching Areas: Specific Standards

10.58.501 TEACHING STANDARDS (1) All programs require that successful candidates:

- (a) demonstrate understanding of how learners grow and develop, recognizing that patterns of learning and development vary individually within and across the cognitive, linguistic, social, emotional, behavioral health continuum, and physical areas, and individualize developmentally appropriate and challenging learning experiences for learners of all cognitive abilities;
- (b) use understanding of individual differences and diverse cultures and communities, including American Indians and tribes in Montana and English Language Learners (ELL), to ensure inclusive environments that enable each learner to meet high standards;
- (c) work with others to create environments that support individual and collaborative learning and that encourage positive social interaction, active engagement in learning, and self-motivation;
- (d) demonstrate understanding of the central concepts, tools of inquiry, and structures of the discipline(s) the candidate teaches and create individualized learning experiences that make the discipline accessible and meaningful for learners to assure mastery of the content, and include the instruction of reading and writing literacy into all program areas;
- (e) demonstrate understanding of how to connect concepts and use differing perspectives to engage learners in critical thinking, creativity, and collaborative problem solving related to authentic local and global issues;
- (f) use multiple methods of assessment, including formative and summative assessments, to engage learners in their own growth, to monitor learner progress, and to guide the teacher's and learner's decision making;
- (g) plan and implement individualized instruction that supports students of all cognitive abilities in meeting rigorous learning goals by drawing upon knowledge of content areas, curriculum, cross-disciplinary skills, and pedagogy, as well as knowledge of learners and the community context;
- (h) use a variety of instructional strategies to encourage learners to develop deep understanding of content areas and their connections and build skills to apply knowledge in meaningful ways;
- (i) engage in ongoing professional learning and use evidence to continually evaluate candidate's practice, particularly the effects of candidate's choices and actions on others (learners, families, other professionals, and the community), and adapt practice to meet the needs of each learner;

(j) interact knowledgeably and professionally with students, families, and colleagues based on social needs and institutional roles;

(k) engage in leadership or collaborative roles, or both, in content-based professional learning communities and organizations and continue to develop as professional educators; and

(l) demonstrate understanding of and ability to integrate history, cultural heritage, and contemporary status of American Indians and tribes in Montana.

(History: 20-2-114, MCA; IMP, 20-1-501, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.502 AGRICULTURAL EDUCATION (1) The program requires that candidates have one year (2000 hours) of practical farm or agricultural-related experience within five years prior to completion of the program and that successful candidates:

(a) demonstrate essential skills and knowledge including the scientific/technical, safety, and career information in the areas of:

(i) agricultural, natural, and environmental resource science;

(ii) agricultural business management and entrepreneurship;

(iii) horticultural science;

(iv) animal science;

(v) crop science;

(vi) soil science;

(vii) food science;

(viii) agriculture mechanical technology;

(ix) biotechnology; and

(x) technology applications in agriculture;

(b) demonstrate a philosophy of career and technical education, which reflects the unique student/community and industry interaction and includes the biological, physical, and applied sciences, personal leadership, and school-to-career components of a comprehensive agricultural education program;

(c) demonstrate competence in the development of a comprehensive instructional program based on identified agriculture industry demographic and technological advances, including current and evolving issues and ongoing practices of Montana American Indian agricultural contributions, while recognizing the social, economic, and demographic diversity of the community in conjunction with a partnership of students, community, business, industry, tribes, families, and an appointed advisory committee;

(d) demonstrate the development of personal and leadership competencies (e.g., citizenship, personal development, goal setting, parliamentary procedure, and teamwork);

(e) demonstrate the skills and abilities to implement and manage student supervised agricultural experience programs including:

- (i) accounting practices;
- (ii) career experiences;
- (iii) entrepreneurial activities;
- (iv) student portfolio development;
- (v) on-site instruction; and
- (vi) job-related skills;

(f) demonstrates the skills and abilities to develop, utilize, and manage dedicated educational facilities with current and emerging equipment, resources, library, media, and electronic technology, and maintain a safe environment during classroom, laboratory, leadership, and supervised agricultural experiences (facilities are related to instructional areas mentioned in (1));

(g) demonstrate the scientific process of critical thinking and problem-solving in the preparation of research experiences in the classroom, laboratory, greenhouse, leadership, and supervised agricultural experiences; and

(h) demonstrate research-based strategies to meet the diverse learning needs of all students by applying and integrating the state's learning goals, agricultural workplace competencies, and essential academic learning requirements in program implementation and assessment, including American Indians and tribes in Montana. (History: 20-2-114, MCA; IMP, 20-1-501, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.503 ART K-12 (1) The program requires that successful candidates:

(a) demonstrate understanding of and engage in the processes of art making involving traditional and contemporary studio approaches, concentrating in one or more studio area;

(b) demonstrate understanding of historical and contemporary theories of art education curriculum and instruction, enabling them to reflect and refine personal art education practices;

(c) engage in inquiry into the history of art, enabling them to acquire knowledge of the cultural context in which artworks have been created, including that of American Indians and tribes in Montana, and fostering respect for all forms of art through the study of diverse traditional and contemporary artists;

(d) develop abilities to critically study, see, and respond to the qualities within artworks, both in the process of creating their own artworks and in observing the artworks of others, and teaching candidates to communicate their perceptions about artworks in verbal and written language;

(e) develop competence and a working vocabulary in art production through developing the ability to present imaginative and original ideas and feelings by creating images in a concentration of one or more of the visual art forms;

(f) use appropriate art technologies as tools of expression, research, and assessment;

(g) comprehend and appropriately use copyright laws in relation to original art works and reproductions;

(h) develop sequential visual arts curricula with a mission and scope that assures student development and competence in a variety of media.

(2) The program requires that successful candidates demonstrate an understanding of:

(a) the stages of artistic development of children, adolescents, and young adults as these relate to art curriculum, and ensuring that the scope and sequence of the curriculum is age appropriate;

(b) the necessity of creating an environment of empathy, tolerance, and emotional safety in the art classroom;

(c) the health and safety aspects of studio work, including materials, tools, equipment, classroom design, and procedures;

(d) budgeting and purchasing; and

(e) censorship issues and their complexity;

(f) assessment strategies for evaluating student progress and accomplishments in the visual arts as aligned to the Montana standards for visual arts, as well as other standards where the arts are integrated with technology and the content areas;

(g) collaborative skills and practices of art in interdisciplinary curriculum and instruction with other disciplines; and

(h) introduce career opportunities in art and art related fields to provide encouragement and advice to students about future options. (History: 20-2-114, MCA; IMP, 20-1-501, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.504 BUSINESS EDUCATION (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; REP, 1989 MAR p. 397, Eff. 3/31/89.)

10.58.505 BUSINESS EDUCATION (1) The program requires that successful candidates:

(a) create, analyze, revise, and implement business education curricula that facilitates the learning of dynamic subject matter in diverse learning environments;

(b) build professional relationships with stakeholders to produce a relevant learning environment that reflects the real world and provides benefits to the student and the community, including development of career pathways and work-based learning experiences;

- (c) demonstrate the development of personal and leadership competencies (e.g., citizenship, personal development, goal setting, and collaboration);
- (d) demonstrate and apply ethical professional practice based on the principles and philosophy of business education and career and technical education through civic engagement, advocacy, and active participation in professional development and professional growth activities;
- (e) integrate professional student organizations into the curriculum to provide an environment in which students grow professionally, personally, and socially; involve the business and professional community; and recognize the organization provides opportunities for personal growth and leadership development;
- (f) identify methods for selection and application of technology tools relating to personal and business decision making;
- (g) demonstrate and apply the use of current and emerging technologies used by business, industry, and education;
- (h) demonstrate effective communication skills to facilitate learning, incorporate quality standards in all forms of communications, and recognize that culture impacts business communication;
- (i) determine the nature and extent of the information needed, access needed information effectively and efficiently, and evaluate information and its sources critically;
- (j) demonstrate ethical and social responsibility related to business and the legal framework for personal, business, and social interactions;
- (k) identify careers and opportunities in business and related occupational fields;
- (l) demonstrate the importance of employment communications to career success (e.g., resume, application letter, application forms and online application system, follow-up letter, electronic database employment search engines), interview techniques, and the skills needed to successfully obtain and maintain employment;
- (m) assess student interests, aptitudes, personal qualities, and other information necessary for students to make informed career choices;
- (n) demonstrate effective techniques for managing employees, personnel relations, and the budgeting of time and resources;
- (o) apply marketing concepts and management fundamentals;
- (p) organize, manage, and synthesize information to make wise business decisions;
- (q) demonstrate techniques for business problem solving;
- (r) apply interpersonal, teamwork, and leadership skills necessary to function in multicultural business and social settings;
- (s) demonstrate an awareness of the interrelatedness of one country's political policies and economic practices on another including interactions with sovereign tribal nations and an understanding of the global business environment, including the interconnectedness of cultural, political, legal, economic, and ethical systems;
- (t) demonstrate and apply principles of economics, free enterprise, and global economies;

(u) demonstrate and apply the basic concepts of personal finance skills, social and government responsibility, and business practices;

(v) demonstrate the role of entrepreneurship in economies and the process of starting and maintaining a business;

(w) demonstrate accounting procedures and use of accounting tools, strategies, and systems to maintain, monitor, control, and plan the use of financial resources;

(x) demonstrate the ability to use technology as a tool for facilitating business functions, coordinate information technology instruction in business education and across the curriculum, and explain the value of information technology and the potential impact it may have on students' lives;

(y) develop students' ability to analyze, synthesize, evaluate, and apply technologies to solve problems, increase productivity, and improve quality of life; and

(z) demonstrate the different functional areas of business as interrelated parts rather than distinct and separate entities. (History: 20-2-114, 20-2-121, MCA; IMP, 20-1-501, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 1997 MAR p. 313, Eff. 2/11/97; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.506 MARKETING EDUCATION (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2722, Eff. 10/14/94; REP, 2000 MAR p. 2406, Eff. 9/8/00.)

10.58.507 THEATRE (1) The program requires that successful candidates:

(a) demonstrate the ability to create curriculum, instruction, and assessment for K-12 students in a school theatre program to make students aware of the process of artistic creation, including:

(i) generating and conceptualizing creations;

(ii) analyzing, interpreting, selecting, organizing, developing, and refining artistic techniques; conveying meaning; and completing performances; and

(iii) perceiving and analyzing, interpreting intent and meaning in, and apply criteria to evaluate responses;

(b) demonstrate knowledge of program goals, procedures, and rationales for a school theatre program;

(c) integrate activities with outside performances utilizing the latest methods of theatre practice and appreciation; and

(d) model pedagogy and attitudes which reflect current research on the theory and practice of teaching theatre.

(2) The program requires that successful candidates demonstrate understanding and knowledge of:

(a) theatre as a social and aesthetic experience, reflecting on authentic representation, including cultures of American Indians and tribes in Montana and the unique history of theatre and acquaintance with representative plays of past and present, and candidates will be able to synthesize and relate knowledge and personal experiences to make art;

(b) the relationship between the actor, the literature, and the audience, including the actor's ability to assess personal growth; and

(c) the educational function of theatre in the school setting, helping students develop life skills and better understand themselves, others, and the world.

(3) The program requires candidates have experience with performance and that successful candidates:

(a) direct/supervise a theatrical production with artistic integrity, including supervision of appropriate selections (being mindful of community standards), analysis, casting, rehearsal, and performance;

(b) manage/supervise the technical requirements and use current and emerging technologies of a theatrical production by effectively planning and executing scenery, lights, make-up, sound, properties, costumes, special effects, promotion and publicity; and

(c) use production as a measurement/evaluation of current and future goals and objectives.

(4) The program requires candidates interact with the community as a resource and successful candidates:

(a) contribute in the development of facilities;

(b) supervise classroom projects, assembly programs, or any activity that involves elements of theatre;

(c) assist planning comprehensive theatre and/or other fine arts curriculum including video/film; and

(d) advocate in their school and the larger community for theatre instruction and performances.

(5) The program requires candidates demonstrate knowledge and use of educational theatre resources and professional organizations. (History: 20-2-114, MCA; IMP, 20-1-501, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.508 ELEMENTARY (TRANSFERRED) (History: 20-2-114, MCA; IMP, 20-1-501, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07(History: 20-2-114, MCA; IMP, 20-2-121, MCA; TRANS, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.509 ENGLISH/LANGUAGE ARTS (1) The program requires that successful candidates:

- (a) apply theory, research, and practice in English/language arts to plan standards-based learning experiences for all students;
- (b) plan, implement, assess, and reflect on instruction that increases motivation and active student engagement; builds sustained learning of English/language arts and responds to diverse students' needs;
- (c) plan, implement, assess, and reflect on English/language arts and literacy instruction that promotes critical thinking and creative engagement with complex issues related to social justice, diversity, and democracy;
- (d) engage students in learning experiences that demonstrate the role of the arts, humanities, and other content areas in English/language arts;
- (e) demonstrate understanding of legal and ethical issues in English/language arts such as freedom of expression, censorship, and bias;
- (f) demonstrate understanding of theory and research and apply knowledge in the areas of language, oral discourse, reading processes, writing processes, literature, print and non-print texts, which are inclusive of texts from and about American Indians and tribes in Montana, and technology;
- (g) plan, implement, assess, and reflect on standards-based instruction that incorporates knowledge of language, including structure, history, and conventions; and facilitate students' comprehension and creation of oral and written discourse and print and non-print texts;
- (h) plan, implement, assess, and reflect on standards-based instruction that incorporates knowledge of oral communication and interpersonal (verbal/non-verbal) communication for various contexts, purposes, and audiences;
- (i) plan, implement, assess, and reflect on standards-based instruction that integrates individual and collaborative approaches and that demonstrates a variety of reading comprehension strategies appropriate for reading purposes and genres;
- (j) plan, implement, assess, and reflect on standards-based instruction that integrates individual and collaborative approaches and technologies and that demonstrates an understanding of writing processes and strategies in different genres for a variety of purposes and audiences;
- (k) plan, implement, assess, and reflect on standards-based instruction in literature, integrating an extensive range of authors, print and non-print texts and genres, including historic and contemporary works by and about American Indians and tribes in Montana;

(l) plan, implement, assess, and reflect on standards-based instruction integrating technologies and/or digital media to compose multimodal discourse; and

(m) prepare to interact knowledgeably and professionally with students, families, and colleagues based on social needs and institutional roles; engage in leadership and/or collaborative roles in English/language arts professional learning communities; and continue to develop as professional educators. (History: 20-2-114, MCA; IMP, 20-1-501, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.510 STUDENTS WITH DISABILITIES P-12 (1) The program requires that successful candidates:

- (a) understand how exceptionalities may interact with development and learning and use this knowledge to provide culturally responsive, meaningful, and challenging learning experiences for individuals with exceptionalities;
- (b) understand how to create and implement personalized, safe, inclusive, and culturally responsive learning environments for all individuals with exceptionalities to become active and effective learners with positive social interactions, self-determination, and healthy well-being;
- (c) use knowledge of general and specialized curricula, including curricula used in Montana schools, to implement individualized learning opportunities that align with the needs of students with exceptionalities;
- (d) use multiple methods of assessment and data sources to identify individualized learning needs and make a variety of education decisions (i.e., administer and score standardized assessments, interpret and present assessment results, write Present Levels of Academic Achievement and Functional Performance (PLAAFPS) (34 CFR 300.320(a)(1)), write measurable goals and objectives, and use data to monitor progress);
- (e) select, adapt, and use a repertoire of evidence-based instructional strategies and assistive technology to advance learning of individuals with exceptionalities;
- (f) guide professional practices by using foundational knowledge of the field along with professional ethics and standards;
- (g) collaborate and communicate in culturally responsive ways with all individuals involved in the special education process to improve programs, services, and outcomes for individuals with exceptionalities and their families (i.e., facilitating meetings, scheduling services, implementing accommodations and modifications);
- (h) demonstrate an understanding of the philosophical, historical, and legal foundations of special education;
- (i) demonstrate knowledge of typical and atypical language development and use systematic evidence-based instruction to enhance language development and teach communicative competence;

(j) demonstrate knowledge and understanding of special education laws and regulations, procedural safeguards, ethical concerns, evaluations/documentation, and appropriate instructional strategies and techniques to support students with social-emotional/behavioral needs (e.g., positive behavior intervention plans/supports); and

(k) demonstrate proficiency in Montana special education procedural competencies including knowledge of state and federal laws along with the 13 legally defined categories, knowledge of the Achievement in Montana (AIM) system and state forms, special education processes, identification of social and cultural movements in special education law, and court cases which shaped special education law, understand legal resources to assist decision making, and the ability to navigate federal and Montana law. (History: 20-2-114, MCA; IMP, 20-1-501, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.511 WORLD LANGUAGES (1) The program requires that successful candidates:

(a) demonstrate understanding of the major linguistic features of the target language (i.e., phonology, morphology, syntax, semantics) and describe the structure, function, and meaning of target language discourse;

(b) explain rules for word and sentence formation (e.g., verbal system, agreement, use of pronouns) and provide examples;

(c) identify and explain pragmatic and sociolinguistic features (e.g., politeness, formal/informal address) of the target discourse and identify features for creating coherence and discourse in extended spoken and written texts;

(d) demonstrate listening comprehension to understand short conventional narrative and descriptive texts, such as descriptions of persons, places, and things; and narrations about past, present, and future events;

(e) in paragraph-length discourse, narrate and describe in the major time frames with some control of aspect;

(f) handle the linguistic challenges presented by a complication or unexpected turn of events appropriately within the context of a situation;

(g) deliver oral presentations extemporaneously on familiar literary and cultural topics and those of personal interest, using a variety of strategies to tailor the presentation to the needs of their audience;

(h) understand conventional written narrative and descriptive texts, such as descriptions of persons, places, and things and narrations about past, present, and future events;

(i) write narratives, descriptions, and summaries on topics of general interest in all major time frames with good control of aspect;

(j) demonstrate understanding of language as an essential element of culture;

(k) demonstrate knowledge of cultural perspectives as reflected in daily living patterns and societal structures, including geography, history, religious, and political systems, literature, fine arts, media, and a variety of cultural products;

(l) connect perspectives to the products and practices of a culture as a way to compare the target culture to their own or to compare a series of cultures;

(m) interpret and synthesize ideas from literary and other cultural texts that represent defining works in the target cultures;

(n) identify themes, authors, historical style, and text types in a variety of media that the cultures deem important to understanding their traditions;

(o) provide opportunities for students to connect to the target language and culture through a variety of means, including technology, as a key component of their classroom practice;

(p) exhibit ease, originality, and flexibility in applying language acquisition theories to instructional practice, using a wide variety of strategies to meet the linguistic needs of their students at various developmental levels;

(q) tailor language use to students' developing proficiency levels and use a variety of strategies to help students understand oral and written input;

(r) use the target language to the maximum extent in the classroom at all levels of instruction;

(s) demonstrate an understanding of the national and state standards for foreign language learning to make instructional decisions;

(t) understand how to integrate interpersonal, interpretive, and presentational modes of communication in instruction;

(u) design authentic and standards-based performance assessments using the three modes of communication to measure student progress in communicative and cultural competencies;

(v) design a content-based curriculum which integrates content from other subject areas into instruction; and

(w) demonstrate knowledge of language proficiency in the second language resulting from the achievement of an appropriate score (at a specific level determined by the degree granting college or university) on an internationally recognized proficiency examination.

(2) The classical language program requires that successful candidates:

(a) demonstrate knowledge and understanding of the preceding standards;

(b) demonstrate knowledge and understanding of the specific classical language; and

(c) demonstrate knowledge and application of the specific classical language's sounds, structure, and vocabulary rather than on conversational objectives.

(3) The English as a Second Language (ESL) program requires that successful candidates:

(a) demonstrate understanding of language as a system, including phonology, morphology, syntax, pragmatics, and semantics;

(b) use the major language acquisition theories to develop a standards-based ESL curriculum which teaches language and literacy through academic content areas;

(c) demonstrate understanding of how cultural groups and individual cultural identities affect language learning and school achievement;

(d) demonstrate understanding of various assessment issues as they affect English language learners (ELLs), such as accountability, bias, special education testing, language proficiency, and accommodations in formal testing situations;

(e) demonstrate understanding of language proficiency instruments used for identification, placement, and reclassification of ELLs;

(f) demonstrate the ability to build partnerships with colleagues and students' families, serve as community resources, and advocate for equal access to educational resources for ELLs; and

(g) demonstrate successful completion of a two-year program, or the equivalent experience, in learning a second language.

(4) The Native American language program and culture specialist licensure requires that successful candidates demonstrate the knowledge of and competence in languages of American Indians and tribes in Montana, as attested by the appropriate tribal authority, pursuant to ARM 10.57.436. (History: 20-2-114, MCA; IMP, 20-1-501, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1986 MAR p. 1902, Eff. 11/15/86; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1991 MAR p. 1553, Eff. 3/15/91; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.512 SCHOOL COUNSELING K-12 (TRANSFERRED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; TRANS, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.513 HEALTH (1) The program requires that successful candidates:

- (a) utilize health-related data about the social and cultural environments impacting growth and development, needs and interests of students to promote healthy lifestyles and behaviors inclusive of American Indians and tribes in Montana;
- (b) distinguish between behaviors and external factors (family, peers, culture, media, technology) that promote health enhancement and those that hinder well-being;
- (c) conduct needs assessments that provide appropriate data to determine health education needs of the learners and diverse populations;
- (d) use advocacy and communication skills to recruit school and community representatives to support and assist in health education program planning;
- (e) develop a logical scope and sequence plan for a health education program that includes a display of functional knowledge of health promotion and disease prevention concepts related to alcohol and other drugs, injury prevention, nutrition, physical activity, sexual health, tobacco, mental health, suicide prevention, personal and consumer health, including goal settings, interpersonal communication, and decision skills to enhance health and community and environmental health;
- (f) formulate appropriate and measurable learner goals and objectives that promote healthy lifestyles and behaviors;
- (g) design health education strategies consistent with specified learner goals and objectives to encourage the practice of healthy behaviors to promote physical and cognitive health;
- (h) analyze factors affecting the successful implementation of health education and coordinated school health programs;
- (i) select resources and media best suited to implement program plans for diverse learners, including relevant resources for American Indians and tribes in Montana;
- (j) demonstrate competence in delivering planned health education programs;
- (k) evaluate health education programs, adjusting objectives and instructional strategies as necessary;
- (l) assess student achievement based on health education program objectives, interpret results, and determine future program needs;
- (m) design and develop a plan for coordinating health education with other components of a school health program;
- (n) demonstrate the dispositions and communication skills to facilitate cooperation among health educators, other teachers, and appropriate school staff;
- (o) formulate strategies of collaboration among health educators in all settings;
- (p) utilize health information retrieval systems effectively, i.e., current and emerging technologies;
- (q) establish effective and appropriate consultative relationships with those requesting assistance in solving health-related problems;
- (r) synthesize valid and reliable health data and respond to requests for health information;

- (s) select effective, valid, and reliable health resource materials for dissemination;
- (t) interpret concepts, purposes, models, and theories of health promotion and health education;
- (u) predict the impact of societal value systems on health education programs;
- (v) select a variety of communication techniques and adapt health information to a specific target audience; and
- (w) develop effective communication between health care providers and consumers working cooperatively as an advocate for improving personal, family, and community health. (History: 20-2-114, MCA; IMP, 20-1-501, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.514 FAMILY AND CONSUMER SCIENCES (1) The program requires that successful candidates:

- (a) analyze family, community, and work interrelationships, investigate career paths, examine family and consumer sciences careers, and apply career decision making and transitional processes;
- (b) illustrate how each domain of human well-being including social, economic, financial, emotional, spiritual, physical, and intellectual can be enriched in every family and consumer sciences content area;
- (c) manage resources responsibly to address the diverse needs and goals of individuals, families, and communities in all family and consumer sciences areas, including, but not limited to, practices related to human, economic, and environmental resources;
- (d) apply principles of early childhood, human development, and interpersonal relationships to strengthen relationships for individuals in the family, workplace, and communities throughout the life span;
- (e) apply principles of nutrition, culinary arts, and sustainability of wellness practices and address related concerns in a global society;
- (f) develop, justify, and implement curricula that address perennial and evolving family, career, and community issues, and reflect the integrative nature of family and consumer sciences, across all academic areas;
- (g) create and implement a safe, supportive learning environment that shows sensitivity to diverse needs, values, and characteristics of students, families, and communities, including American Indians and tribes in Montana;
- (h) demonstrate ethical professional practice based on the history and philosophy of family and consumer sciences and career and technical education through civic engagement, advocacy, and ongoing professional development;
- (i) assess, evaluate, and improve student learning and programs in family and consumer sciences using appropriate criteria, standards, and processes;

(j) integrate leadership strategies from Family, Career, and Community Leaders of America (FCCLA) or other sources into the program to develop students' academic growth, application of family and consumer sciences content, leadership, service learning, and career development; and

(k) facilitate each student's critical thinking and problem solving in family and consumer sciences through varied instructional strategies and technologies and through responsible management of resources in schools, communities, and the workplace. (History: 20-2-114, MCA; IMP, 20-1-501, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2772, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.515 INDUSTRIAL TRADES AND TECHNOLOGY EDUCATION

(1) The program requires that successful candidates:

(a) demonstrate knowledge of a curriculum and curriculum design consistent with current national and Montana standards, including:

(i) a mission statement with stated goals and objectives that reflect the intent of industrial trades and technology education programs, as guided by the national professional organizations;

(ii) an organized set of concepts, processes, and systems that are technological in nature; and

(iii) content orientated toward industrial trades and technology education;

(b) demonstrate knowledge/competency in applied science, technology, engineering, mathematics, and communication, including:

(i) knowledge about the development of technology, its effects on people, industry, the environment, and society;

(ii) communication technology, which includes information-related technology that uses resources to transfer information and to extend human potential;

(iii) information about industry's organization, personnel systems, techniques, resources, products, and social impacts;

(iv) construction technology, which includes physical-related technology that uses resources to build structures or construct work on site;

(v) manufacturing technology, which includes physical-related technology using resources to extract and convert raw/recycled materials into industrial and consumer goods;

(vi) transportation technology, which includes physical-related technology using transportation technologies to maintain contact and exchange among individuals and societal units through the movement of material, goods, and people; and

(vii) identification of a level and scope of entry level skills in the use of tools, instruments, and machines necessary for successful teaching;

(c) demonstrate knowledge of quality workmanship and work ethics;

(d) develop insight and understanding in the application of technological concepts, processes, and systems;

- (e) develop and demonstrate skills in utilizing tools, materials, machines, processes, and technical concepts relative to content organizers, safely and efficiently;
- (f) demonstrate skills, creative abilities, positive self-concepts, and individual potentials relating to technology;
- (g) demonstrate problem-solving and decision-making abilities involving human and material resources and technological processes and systems;
- (h) demonstrate activity-oriented laboratory instruction that reinforces abstract concepts with concrete experiences;
- (i) demonstrate knowledge and skills regarding how technological systems function and the attitudes to evaluate those systems;
- (j) demonstrate knowledge of past, present, and future technological systems by applying knowledge and skills developed in the study of other systems;
- (k) apply and use content knowledge from other disciplines to solve individual and social problems inclusive of gender equity and culturally sensitive opportunities;
- (l) know and understand the rules and requirements and how to obtain access to industry certifications (i.e., automotive, welding, machining);
- (m) demonstrate and apply safe laboratory skills including OSHA 10 requirements, with emphasis on the facilities, personal safety equipment, and environmental concerns;
- (n) demonstrate and apply ethical professional practice based on principles and philosophy of industrial trade and technology education and career technical education (CTE) through civic engagement, advocacy, and active participation in professional development and professional growth activities;
- (o) demonstrate an awareness of professional student organizations into the curriculum to provide an environment in which students grow professionally, personally, and socially; involve the business and industry community; and recognize the potential for these organizations to provide personal leadership development;
- (p) demonstrate a knowledge of the value of building professional relationships with stakeholders to produce a relevant learning environment and provide benefits to the student and the community including development of career pathways and work-based learning experiences;
- (q) articulate industrial trades and technology education to the school and the local community;
- (r) develop and coordinate partnerships, advisory boards, and work-related experiences into the curriculum; and
- (s) demonstrate knowledge of and how to gain access to services and financial resources available from state and federal agencies and operate within applicable laws and regulations governing education. (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2772, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.516 JOURNALISM (1) The program requires that successful candidates:

- (a) demonstrate knowledge of and apply press law, particularly as it affects the rights and responsibilities of student journalists;
- (b) demonstrate knowledge of and apply the history, technological development, and impacts of the mass media;
- (c) demonstrate knowledge of the functions of the news media in a democratic society and ensure students understand their role in preserving free and independent news media;
- (d) demonstrate knowledge of the organizational structure of the news media and the value of news for today's media consumers;
- (e) demonstrate knowledge of styles and purposes of journalistic forms, including news, features, columns, and editorials;
- (f) demonstrate knowledge of and apply the concepts of accuracy, fairness, objectivity, and comprehensiveness in news reporting;
- (g) demonstrate knowledge of and apply journalism ethics;
- (h) demonstrate knowledge of precomposition strategies, including generating sources, determining angle, interviewing, and researching;
- (i) demonstrate knowledge of and apply skills in using multiple drafts, conferences, and self-assessment as guides for revision and editing, matching language use and style with the intended audience;
- (j) demonstrate a variety of publishing/production methods;
- (k) demonstrate knowledge of and apply methods of effective evaluation of journalistic forms, including advertisements;
- (l) demonstrate the values and skills needed to package multimedia products effectively using various forms of journalistic design with a range of visual, auditory, and interactive media;
- (m) demonstrate the value of auditory, visual, still photography, and photojournalism to tell stories in compelling ways;
- (n) develop a plan and apply strategies on how to organize staffs and demonstrate skills in leadership and group dynamics;
- (o) demonstrate knowledge of and apply sound business practices for advertising, sales, consumer relations, bookkeeping, and circulation;
- (p) create effective journalism programs by demonstrating sound practices in selecting, designing, organizing, and employing objectives, strategies, and materials;
- (q) communicate components of curriculum and instruction to students, parents, lay audiences, and other educators;
- (r) integrate a variety of instructional strategies, materials, and technologies appropriate to the breadth of journalism content and the individual needs of students; and
- (s) incorporate instruction in reading literacy and writing literacy in journalism as required by the Montana Content Standards, understanding that course organization needs to allow continuous student learning. (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.517 LIBRARY MEDIA K-12 (1) The program requires that successful candidates:

(a) demonstrate the ability to design, implement, assess, and evaluate an information literacy program that prepares independent lifelong learners and includes the ability to demonstrate collaboration techniques with students and staff in the development and implementation of K-12 curriculum;

(b) demonstrate the ability to manage the library facility to meet school district goals by:

(i) utilizing current practices in the areas of policy development, budgeting, needs assessment, and collaboration with students and colleagues; and

(ii) demonstrating competency and professionalism in library program administration including budgeting, facilities, equipment, public relations, and program advocacy;

(c) promote reading for learning and enjoyment by demonstrating the ability to:

(i) manage library collections through evaluation, selection, acquisition, and organization of library materials;

(ii) collaborate with teachers and students in the selection of reading materials in print and digital formats; and

(iii) select materials which reflect knowledge of current youth literature, support a wide range of information needs and interests, and support American Indians and tribes in Montana;

(d) demonstrate knowledge of technical services and the policies and procedures that govern these services; and

(e) model and facilitate the effective use of current and emerging digital information tools to locate, analyze, evaluate, and efficiently and ethically use information to support research, learning, creating, and communicating in a digital society. (History: 20-2-114, MCA; IMP, 20-1-501, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.518 MATHEMATICS (1) The program requires that successful candidates:

- (a) demonstrate knowledge and understanding of and apply the process of mathematical problem solving;
- (b) reason mathematically in constructing, evaluating, and communicating mathematical arguments;
- (c) demonstrate an appreciation for mathematical rigor and inquiry;
- (d) recognize, formulate, and apply connections between mathematical ideas and representations in a wide variety of contexts;
- (e) demonstrate understanding of the mathematical modeling process by interpreting and analyzing mathematical results and models in terms of their reasonableness and usefulness;
- (f) recognize, use, and make connections between and among mathematical ideas and in contexts outside mathematics to build mathematical understanding including the ability to:
 - (i) attend to precision in mathematical language, notation, approximations, and measurements by consistently and appropriately applying mathematical definitions and procedures; and
 - (ii) choose appropriate symbolic representations and labels such as specifying units of measure, calculating accurately and efficiently, and expressing numerical answers with a degree of precision appropriate for the context and the data used in calculation;
- (g) appropriately use current and emerging technologies as essential tools for teaching and learning mathematics;
- (h) look for and recognize repeated reasoning patterns and the mathematical structures behind those patterns to organize and generalize mathematical methods and results in mathematical problem solving and inquiry;
 - (i) demonstrate how students learn mathematics and the pedagogical knowledge specific to mathematics teaching and learning by demonstrating:
 - (i) how learners develop mathematical proficiency through the interdependent processes of integrating conceptual understanding, procedural fluency, strategic competence, adaptive reasoning, and productive disposition;
 - (ii) an understanding of individual differences and diverse cultures and communities to ensure inclusive learning environments in mathematics and ensure high standards of mathematical work for all students;
 - (iii) an understanding of learning environments that promote mathematical learning, including individual and collaborative learning, positive social interaction about mathematics, active engagement in mathematics learning, and promote self-motivation among mathematical learners;
 - (iv) an understanding of multiple methods of assessment of mathematical learner growth, progress, and decision making;
 - (v) an understanding of a variety of instructional strategies that encourage learners to develop deep understanding of mathematics; and
 - (vi) an understanding of grades 5-12 mathematics curriculum as specified by the State of Montana Content Standards and of the assessment process as specified by the Montana statewide assessment;

- (j) demonstrate content knowledge in:
- (i) numbers and operations including knowledge and understanding of number systems, arithmetic algorithms, fundamental ideas of number theory, proportion and rate, quantitative reasoning, modeling, and applications;
 - (ii) different perspectives on algebra including knowledge and understanding of algebraic structures, basic function classes, functional representations, algebraic models and applications, formal structures and results in abstract algebra, and linear algebra;
 - (iii) geometry and trigonometry including knowledge and understanding of Euclidean and non-Euclidean geometries, geometric transformations, axiomatic reasoning and proof, formulas and calculations related to classical geometric objects, and properties of trigonometric functions;
 - (iv) calculus including knowledge and understanding of limit, continuity, differentiation, integration involving single and multiple-variable functions, sequences and series, and a thorough background in the techniques and application of the calculus;
 - (v) discrete mathematics including knowledge and understanding of basic discrete structures, counting techniques, iteration, recursion, formal logic, and applications in the formulation and solution of problems;
 - (vi) data analysis, statistics, and probability including knowledge and understanding of descriptive statistics using numbers and graphs, survey design, sources of bias and variability, empirical and theoretical probability, simulation, and inferential statistics related to univariate and bivariate data distributions; and
 - (vii) historical development and perspectives of various branches of mathematics including contributions of significant historical figures and diverse cultures, including American Indians and tribes in Montana. (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.519 MUSIC K-12 (1) The program requires that successful candidates:

- (a) perform solo and small to large ensemble repertoire in candidate's specialty area;
- (b) perform in both vocal and instrumental ensembles;
- (c) demonstrate proficiency on keyboard and fretted instruments in order to use the instruments for demonstration and rehearsal;
- (d) demonstrate a comprehensive knowledge of musical notation and terminology;
- (e) arrange and/or transpose music in an age- and level-appropriate manner for ensembles and classroom situations;
- (f) demonstrate basic competence in performing and teaching voice, winds, string, and percussion instruments, including a comprehensive knowledge and skill in conducting and score reading, in order to instruct and conduct choral and instrumental ensembles;
- (g) demonstrate through analysis and performance an understanding of aural perception to distinguish tonal and temporal relationships;
- (h) demonstrate through analysis and performance an understanding of the elements of music, including melody, harmony, rhythm, tempo, timbre, tone, dynamics, and form;
- (i) demonstrate through analysis and performance knowledge of acoustics and the physics of sound as it relates to instrumental sound production, timbre, and tone quality;
- (j) develop an understanding of post K-12 opportunities available to students, including post-secondary, other post K-12 education, and career opportunities related to the study and performance of music and music-related fields;
- (k) identify music in terms of style, historical period, and cultural significance as it relates to instruction, rehearsal, and performance;
- (l) demonstrate knowledge, awareness, and appreciation of musical cultures, including those of American Indians and tribes in Montana;
- (m) demonstrate understanding of the diversity of students with regard to culture, backgrounds, and abilities, including the cultures of American Indians and tribes in Montana;
- (n) demonstrate knowledge of the relationship of music to other performing and visual arts, and other disciplines outside the arts;
- (o) demonstrate an understanding of the aesthetic, philosophical, and psychological aspects of music, and music's contribution to the individual and society;
- (p) demonstrate knowledge and understanding of how children learn and develop, both as individuals and as part of a group, with regard to music instruction;
- (q) use a variety of age-appropriate instructional strategies to develop students' performance skills;
- (r) demonstrate competency in promoting student creativity through age- and ability-appropriate instruction in interpretation, improvisation, and composition;
- (s) plan instruction based on candidate's musical knowledge and needs of the curriculum, the candidate's students, school, and the community;

(t) demonstrate understanding of and use varied age-appropriate assessment strategies to evaluate and ensure continuous and consistent musical development of students;

(u) demonstrate continuing competence in the appropriate use of current and emerging technologies in contemporary music education, such as music writing programs, music theory/skills programs, keyboard/midi, online resources, amplification, and recording technology and their relationship to acoustics and sound;

(v) demonstrate understanding of how to structure appropriate learning environments for K-12 music instruction, including appropriate pacing, modeling, and rehearsal organization;

(w) demonstrate an understanding of the need for positive relationships with colleagues, parents, and community members to support student learning and program continuity;

(x) demonstrate an understanding of strategies for managing a music program in terms of equipment management and maintenance, instructional materials, co-curricular activities including music performance and participation, and finance management including fundraising, grants, and sponsorships; and

(y) demonstrate an understanding of the implementation of age-appropriate classroom management for the music classroom. (History: 20-2-114, MCA; IMP, 20-1-501, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.520 PHYSICAL EDUCATION (1) The program requires that successful candidates:

(a) identify critical elements of motor skill performance and combine motor skills into appropriate sequences for the purpose of improving learning;

(b) demonstrate competent motor skill performance in a variety of physical activities;

(c) describe performance concepts and strategies related to skillful movement and physical activity including fitness principles, game tactics, and skill improvement principles;

(d) describe and apply bioscience (anatomical, physiological, biomechanical) and psychological concepts to skillful movement, physical activity, and fitness;

(e) demonstrate knowledge and understanding of state and national content standards, current law, including those related to American Indians and tribes in Montana, and local program goals in physical education;

(f) identify, select, and implement appropriate learning/practice opportunities of K-12 physical education students based on developmental needs, expected progression, level of readiness, understanding the student, the learning environment, and the task;

(g) demonstrate understanding and use of current and proven instructional strategies, services, and resources to promote skillful movement and physical activities;

(h) use organizational and managerial skills to create efficient, active, and equitable learning experiences in physical education and development that are responsive to students' strengths, interests, challenges, individual prior experiences, and diverse cultural heritages including the distinct cultural differences of American Indians and tribes in Montana;

(i) use a variety of developmentally and culturally appropriate practices to motivate K-12 students to participate in indoor and outdoor physical activity to promote physical and cognitive health;

(j) use strategies to help students demonstrate responsible personal and social behaviors including mutual respect, support of others, safety, and cooperation that promote positive relationships and a productive learning environment;

(k) demonstrate knowledge and use of instructional strategies to enhance communication among students in physical activity settings;

(l) demonstrate knowledge and use technology tools and instruments to monitor students' motor skills, development, and performance;

(m) demonstrate strategies to become an advocate in the school and community to promote a variety of health-enhancing opportunities; and

(n) participate in the professional health education and physical education community (e.g., school, district, state, tribal, and national) and within the broader education field. (History: 20-2-114, MCA; IMP, 20-1-501, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.521 READING SPECIALISTS K-12 (1) The program requires that successful candidates:

(a) understand the theoretical and evidence-based foundations of reading and writing processes and instruction as outlined in the Montana Content Standards, including:

(i) understanding of the historically shared knowledge of the profession and changes over time in the perceptions of reading and writing development, processes, and components;

(ii) understanding of the role of analyzing data and adjusting instruction for improving all students' reading development and achievement in order to meet the needs of individual learners; and

(iii) demonstrating knowledge and awareness of the distinct and unique cultural heritage of American Indians and tribes in Montana;

- (b) create and engage their students in literacy practices that develop awareness, understanding, respect, and a valuing of differences in our society by:
- (i) recognizing, understanding, and valuing the forms of diversity that exist in society and their importance in learning to read and write;
 - (ii) using a literacy curriculum and engaging in instructional practices that positively impact students' knowledge, beliefs, and engagement with the features of diversity; and
 - (iii) developing and implementing strategies to advocate for equity;
- (c) use instructional approaches, materials, and an integrated comprehensive, balanced curriculum to support student learning in reading and writing by:
- (i) utilizing foundational knowledge to design or implement an integrated, comprehensive, and balanced curriculum;
 - (ii) utilizing appropriate and varied instructional approaches, including those that develop word recognition, language comprehension, strategic knowledge, and reading/writing connections, including the use of appropriate technology; and
 - (iii) utilizing a wide range of texts (e.g., narrative, expository, and poetry) from traditional print, digital, and online resources;
- (d) use a variety of assessment tools and practices to plan and evaluate effective reading and writing instruction by:
- (i) understanding types of assessments and their purposes, strengths, and limitations;
 - (ii) selecting, developing, administering, and interpreting assessments, both traditional print and electronic, in order to make decisions based on data; and
 - (iii) using assessment information to plan, evaluate, reflect on, and adjust instruction;
- (e) create a literate environment that fosters reading and writing by integrating foundational knowledge, instructional practices, approaches and methods, curriculum materials, and the appropriate use of assessments by:
- (i) designing the physical environment to optimize students' use of traditional print, digital, and online resources in reading and writing instruction;
 - (ii) designing a social environment that is low risk and includes choice, motivation, and scaffolded support to optimize students' opportunities for learning to read and write; and
 - (iii) utilizing routines to support reading and writing instruction (e.g., time allocation, transitions from one activity to another, discussions, and peer feedback).
- (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.522 SCIENCE (1) The science program ensures that successful candidates follow the subject major and/or minor program of study or the broadfield major program of study. Subject major and/or minor teaching endorsement programs are limited to biology, earth science, chemistry, and physics. The physical science endorsement is a balanced combination of physics and chemistry. The broadfield major includes a concentration in one of the endorsable disciplines, coupled with balanced study in three other endorsable science disciplines. Science disciplines selected adhere to a scope and sequence which ensures a thorough grounding in the basic concepts, skills, and dispositions associated with Montana and national K-12 content standards.

(2) The science endorsement requires that successful candidates:

(a) demonstrate a thorough understanding of the nature of science and essential science engineering practices, including:

(i) recent significant changes in the field, as reflected by Montana Content Standards, the science framework and their impact on the content knowledge necessary for teaching K-12 students;

(ii) understanding and articulating the knowledge and practices of contemporary science and engineering;

(iii) competency in basic mathematics, statistics, and current and emerging technological applications to science teaching;

(iv) preparation and experience in environmental science, including American Indians and tribes in Montana and their traditional relationships to the environment; and

(v) methods to engage in active inquiry lessons where students ask questions, develop and use models, plan and carry out investigations, analyze and interpret data using applicable science-specific technology, mathematics, and computational thinking, in order to construct explanations and solutions and communicate concepts by engaging in argument from evidence;

(b) demonstrate knowledge and skills in obtaining, evaluating, and communicating information using multiple sources in order to communicate claims, methods, and designs to others;

(c) use a variety of strategies that demonstrate the candidates' knowledge of the appropriate teaching and learning activities, including laboratory or field settings and applicable instruments and technology, or both;

(d) demonstrate safe laboratory management skills;

(e) practice ethical treatment of living organisms in the classroom; and

(f) interrelate and interpret important concepts, ideas, and applications in their field of endorsement and supporting disciplines.

(3) The candidate for an endorsement in earth science demonstrates the following core competencies:

(a) conceptual understanding in the unifying concepts and processes of systems order and organization, evidence models and explanation, change, constancy, measurement, evolution and equilibrium, form and function;

(b) systematic and quantitative study of the fundamental topics in earth science interrelated and illustrated with descriptive and historical perspectives, as well as the applications of earth science in society;

(e) conceptual understanding of astronomy, geology, paleontology, meteorology, and oceanography, and their relations with each other;

(d) conceptual understanding of biology, chemistry, or physics, emphasizing the interrelationships among the sciences and their relations to earth science;

(e) conceptual understanding of mathematics, including a working knowledge of trigonometry and statistics;

(f) conceptual understanding of ethical and human implications of such contemporary issues as the impact of technologies on earth systems; and

(g) ability to design, develop, and evaluate field, demonstration, and laboratory instructional activities, and use special skills and techniques with equipment, technologies, and facilities which support and enhance curricula and instruction in earth science and especially techniques and strategies for using the local environment as a teaching/learning laboratory.

(4) The candidate for an endorsement in biology demonstrates the following core competencies:

(a) conceptual understanding of the life processes in living systems including organization of matter and energy;

(b) conceptual understanding of the similarities and differences among animals, plants, fungi, microorganisms, and viruses;

(c) conceptual understanding of living organisms, ethical laboratory and field studies promoting scientific inquiry, applications of biology in social and historical perspectives;

(d) conceptual understanding of the principles and practices of biological classification and the theory and principles of biological evolution;

(e) understanding of the ecological systems including the interrelationships and dependencies of organisms with each other and their environments;

(f) conceptual understanding of population dynamics and the impact of population on its environment;

(g) understanding of general concepts of genetics and heredity;

(h) conceptual understanding of organizations and functions of cells and multi-cellular systems;

(i) understanding of the regulation of biological systems including homeostatic mechanisms;

(j) conceptual understanding of the fundamental processes of modeling and investigating in the biological sciences;

(k) understanding of the applications of biology in environmental quality and in personal and community health;

(l) conceptual understanding of bioenergetics including major biochemical pathways;

(m) understanding of biochemical interactions of organisms and their environments;

(n) conceptual understanding of molecular genetics and heredity and mechanisms of genetic modification;

- (o) understanding of molecular basis for evolutionary theory and classification;
 - (p) conceptual understanding of the causes, characteristics, and avoidance of viral, bacterial, and parasitic diseases;
 - (q) understanding of the issues related to living systems such as genetic modification, uses of biotechnology, cloning, and pollution from farming; and
 - (r) conceptual understanding of applications of biology and biotechnology in society, business, industry, and health fields.
- (5) The candidate for an endorsement in chemistry demonstrates the following core competencies:
- (a) conceptual understanding in the unifying concepts and processes of systems order and organization, evidence models and explanation, change constancy, measurement, evolution and equilibrium, form and function;
 - (b) understanding of exploration and inquiry as tools in investigating all aspects of the natural environment and demonstrates knowledge of application and instruction using these methods when instructing students;
 - (c) conceptual understanding of the fundamental structures of atoms and molecules;
 - (d) understanding of the basic principles of ionic, covalent, and metallic bonding;
 - (e) conceptual understanding of the physical and chemical properties and classification of elements including periodicity;
 - (f) understanding of chemical kinetics and thermodynamics;
 - (g) conceptual understanding of the principles of electrochemistry;
 - (h) understanding of the Mole concept, stoichiometry, and laws of composition;
 - (i) conceptual understanding of solutions, colloids, and colligative properties;
 - (j) understanding of transition elements and coordination compounds;
 - (k) conceptual understanding of acids and bases, oxidation-reduction chemistry, and solutions;
 - (l) understanding of fundamental biochemistry;
 - (m) conceptual understanding of the applications of chemistry in personal and community health and environmental quality;
 - (n) understanding of the molecular orbital theory, aromaticity, metallic and ionic structures, and correlation to properties of matter;
 - (o) conceptual understanding of the advanced concepts of chemical kinetics, and thermodynamics;
 - (p) understanding of Lewis structures and molecular geometry;
 - (q) conceptual understanding of major biological compounds and natural products;
 - (r) understanding of solvent system concepts;
 - (s) conceptual understanding of chemical reactivity and molecular structure including electronic and steric effects; and
 - (t) understanding of organic chemistry including syntheses, reactions, mechanisms, and aromaticity.

(6) The candidate for an endorsement in physics demonstrates the following core competencies, including:

- (a) conceptual understanding of energy, work, and power;
- (b) understanding of motion, major forces, and momentum;
- (c) conceptual understanding of Newtonian physics with engineering applications;
- (d) understanding of conservation, mass, momentum, energy, and charge;
- (e) conceptual understanding of the physical properties of matter;
- (f) understanding of kinetic-molecular motion and atomic models;
- (g) conceptual understanding of radioactivity, nuclear reactors, fission, and fusion;
- (h) understanding of wave theory, sound, light, the electromagnetic spectrum and optics;
- (i) conceptual understanding of electricity and magnetism;
- (j) understanding of the fundamental processes of investigating in physics;
- (k) conceptual understanding of the applications of physics in environmental quality and to personal and community health;
- (l) understanding of thermodynamics and energy-matter relationships;
- (m) conceptual understanding of nuclear physics including matter-energy duality and reactivity;
- (n) understanding of angular rotation and momentum, centripetal forces, and vector analysis;
- (o) conceptual understanding of quantum mechanics, space-time relationships, and special relativity;
- (p) understanding of models of nuclear and subatomic structures and behavior;
- (q) conceptual understanding of light behavior, including wave-particle duality and models;
- (r) understanding of electrical phenomena including electric fields, vector analysis, energy, potential, capacitance, and inductance;
- (s) conceptual understanding of issues related to physics such as disposal of nuclear waste, light pollution, shielding communication systems, and weapons development;
- (t) understanding of historical development and cosmological perspectives in physics including contributions of significant figures and underrepresented groups, and evolution of theories in physics; and
- (u) conceptual understanding of the applications of physics and engineering in society, business, industry, and health fields.

(7) The candidate for an endorsement in broadfield science demonstrates the following core competencies:

- (a) conceptual understanding in the unifying concepts and processes of systems order and organization, evidence models and explanation, change constancy, measurement, evolution and equilibrium, form and function;
- (b) ability to collect and interpret empirical data using applicable science-specific technology to develop science and engineering practices, understand the cross-cutting concepts and processes, relationships, and natural patterns;

- (c) interdisciplinary study of the fundamental topics in biology, chemistry, physics, and earth science including descriptive and historical perspectives, as well as the applications of these sciences in society;
- (d) study and experiences emphasizing interrelationships among all the sciences, as well as cross-cutting concepts of the sciences with other areas of study such as mathematics, technology, and engineering;
- (e) understanding of mathematics, including a working knowledge of calculus and statistics;
- (f) conceptual understanding of the relationships among science, science technologies, and the study of environmental education;
- (g) designing, developing, and evaluating field experiences, demonstrations, and laboratory instructional activities, and in using special skills and techniques with equipment, technologies, facilities, and specimens which support and enhance curricula and instruction in all sciences including laboratory and field studies that promote the science and engineering practices, investigation and inquiry, and the use of experimental methods;
- (h) conceptual understanding of earth sciences including content in astronomy, geology, paleontology, meteorology and oceanography, and their relationships with each other;
- (i) conceptual understanding of biology including content in zoology, botany, physiology, genetics, ecology, microbiology, cell biology/biochemistry, and evolution, and their relationships with each other;
- (j) conceptual understanding of chemistry including content in organic, inorganic, analytical, and biochemistry and their relationships with each other;
- (k) conceptual understanding of physics including content in classical mechanics, electricity and magnetism, heat and thermodynamics, waves, optics, atomic and nuclear physics, radiation and radioactivity, relativity, quantum mechanics, and other fields of modern physics and their relationships with each other; and
- (l) facilitating classroom discourse through questioning, reflecting on, and critically analyzing ideas, leading students toward a deeper understanding of the inquiry process itself, and, especially, using questions to define problems and potential solutions. (History: 20-2-114, MCA; IMP, 20-1-501, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.523 SOCIAL STUDIES (1) The social studies program ensures that successful candidates follow the subject-major/minor program of study or the broadfield major program of study. Subject-major/minor teaching endorsement programs are limited to history, government, economics, geography, psychology, and sociology. The broadfield social studies teaching endorsement shall include a concentration in history and government and additional content chosen from economics, geography, psychology, sociology, Native American studies, or anthropology. The social studies disciplines adhere to a thorough grounding in the basic philosophy, theory, concepts, and skills associated with Montana and national standards.

(2) The social studies endorsement requires that successful candidates:

(a) demonstrate knowledge of the purposes of social studies, how to select content appropriate to those purposes, how to use emerging technology, and how to assess student learning in terms of social studies goals;

(b) demonstrate knowledge of and ability to plan instruction based on state and national social studies curriculum standards;

(c) demonstrate ability to select and integrate the content and methods of investigation of history and the social science disciplines for use in social studies instruction;

(d) demonstrate knowledge of and ability to plan instruction on the history, cultural heritage, and contemporary status of American Indians and tribes in Montana, including an awareness and application of the Montana 7 Essential Understandings; and

(e) demonstrate ability to use a variety of approaches to instruction that are appropriate to the nature of social studies content and goals and to use them in diverse settings with students with diverse backgrounds, interests, and range of abilities.

(3) The economics endorsement program requires that successful candidates demonstrate knowledge of:

(a) economic theory;

(b) the basic economic problems confronting societies and the examination of the ways in which economic systems seek to resolve the three basic economic problems of choice (i.e., determining what, how, and for whom to produce) that are created by scarcity and environmental impact;

(c) the basic economic goals for society, including freedom of choice, personal financial literacy, ethical action, efficiency, equity, full employment, price stability, growth, and security;

(d) the nature of comparative economic systems, including:

(i) the organization and importance of the international economic system;

(ii) the distribution of wealth and resources on a global scale;

(iii) the struggle of developing nations to attain economic independence and a better standard of living for their citizens;

(iv) the role of the transnational corporation in changing rules of exchange; and

(v) the influence of political events on the international economic order.

(4) The geography endorsement program requires that successful candidates demonstrate knowledge of:

(a) the geographic themes of location (absolute and relative), place (physical and human characteristics), human-environment interaction (relationships within places), movement (of people, goods, and ideas), and regions (how they form and change);

(b) physical geography including solid earth, atmosphere, oceans, landforms, soils, and biogeography;

(c) human geography, including cultural, social, historical, political, and economic concerns; and

(d) the use of maps and other tools of geographical investigation or presentation, including the use of emerging technology, to process information from a spatial perspective.

(5) The government endorsement program requires that successful candidates demonstrate knowledge of:

(a) the nature of individual dignity, human rights, sovereignty (popular, tribal, and national), political power, citizenship, and political authority;

(b) American democracy as a form of government based on federalism, separation of powers, checks and balances, civil rights and liberties, elected representation, and popular participation;

(c) the organization, powers, and politics of the national, state, tribal, and local units of American government;

(d) the role of public opinion, the press, elections, interest groups, and political leaders in building compromise and policy making;

(e) the nature of international relations and the principles and organizations that are used to mediate multinational conflict and achieve multinational order; and

(f) American democracy as compared and contrasted with other forms of government, political systems, and philosophies throughout history and today.

(6) The history endorsement program requires that successful candidates demonstrate knowledge of:

(a) U.S. history, including the history of the many peoples who have contributed to the development of North America;

(b) the history of diverse civilizations throughout the world;

(c) the origin, development, and ramifications of present local, tribal, national, and world affairs;

(d) the skills of chronological thinking, analysis of evidence, and interpretation of the historical record by using appropriate content standards;

(e) the cultural, economic, political, scientific/technological, and social activity of humans in the analysis of contemporary issues and problems;

(f) the history, cultural heritage, political development, and contemporary status of American Indians and tribes in Montana; and

(g) the changing role of culture, ethnicity, gender, class, and identity in human affairs.

(7) The psychology endorsement program requires that successful candidates demonstrate knowledge of:

(a) the basic psychological theories including developmental, personality, learning, motivation, cognition, biological/physiological, social behavior, and psychological disorders;

(b) the application of the processes of scientific inquiry and descriptive statistics to questions concerning human behavior;

(c) the behaviors which are most effective in coping with stresses in life, understanding the effects of historical trauma upon cultures, and in improving interpersonal and cross-cultural relationships;

(d) human development in terms of physiological, social, and environmental influences throughout the lifespan; and

(e) the theories and factors which contribute to psychological dysfunction of individuals and families.

(8) The sociology endorsement program requires that successful candidates demonstrate knowledge of:

(a) the basic structure and history of the world's dominant and indigenous social systems;

(b) the factors, including the effects of changing communications, which hold groups together or which change and weaken them;

(c) the application of knowledge and techniques to practical problems in the every day world of individuals, groups, organizations, and government; and

(d) the importance of diversity in society. (History: 20-2-114, MCA; IMP, 20-1-501, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.524 COMMUNICATION (1) The program requires that successful candidates:

(a) demonstrate understanding of the composing process, including research, organization, and context development to plan standards-based, coherent, and relevant learning experiences for all students;

(b) demonstrate understanding of theories of human communication including symbolic development, transference of meaning, both cognitively and affectively, nonverbal communication, and language, including social and cultural factors affecting language use;

(c) demonstrate understanding of context (practices) of human communication, including public speaking, rhetoric, argumentation, persuasion; oral interpretation, interpersonal, small group, and organizational communication; cross-cultural communication, including American Indians and tribes in Montana;

(d) demonstrate understanding of diagnostic techniques, assessment, and prescriptions for improving students' formal and informal communication skills and communicate with students about their performance in ways that actively involve them in their own learning;

(e) design instruction that incorporates students' home and community languages to enable skillful control over their rhetorical choices and language practices for a variety of audiences and purposes;

(f) demonstrate positive attitudes for teaching communication and demonstrate knowledge and understanding of students' social, linguistic, and cultural backgrounds affecting symbolic cognition; and

(g) select, create, and use a variety of instructional strategies and teaching resources, including contemporary technologies and digital media. (History: 20-2-114, MCA; IMP, 20-1-501, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15

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10.58.525 TRADES AND INDUSTRY (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; REP, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.526 TRAFFIC EDUCATION (1) The program requires that successful candidates:

(a) demonstrate an understanding of the state requirements for approval of a traffic education program (i.e., school and teacher, student age, scheduling, program length, and liability);

(b) demonstrate an understanding of the state requirements to be eligible as an approved teacher of traffic education (i.e., educator license, driver's license, driving record, specific coursework, and professional development);

(c) demonstrate an understanding of the state requirements regarding vehicle usage (i.e., required and recommended equipment, maintenance, identification, vehicle use and restrictions, licensing, and insuring);

(d) demonstrate an understanding of the general administrative procedures and policies required for conducting an approved traffic education program (i.e., approval and reimbursement forms);

(e) demonstrate knowledge of the driver licensing process and the responsibilities associated with having that license;

(f) demonstrate a working knowledge and administration of the cooperative driver testing program (CDTP) leading to instructor certification to administer the CDTP driver's license knowledge and road skills tests and issue the traffic education learner license;

(g) demonstrate a working knowledge of perceptual and physical screening techniques;

(h) demonstrate an understanding of the Uniform Vehicle Code, motor vehicle laws of Montana, and due process;

(i) demonstrate an understanding of the consequences resulting from violations (i.e., driving record, loss of driving privilege, higher insurance premiums, license retesting);

(j) demonstrate the ability to effectively assist students in examining and clarifying their beliefs, attitudes, and values as they relate to traffic safety;

(k) demonstrate an understanding of the importance of positive attitudes toward safe driving (i.e., mental, social, and physical tasks performed through a decision-making process);

(l) demonstrate an understanding of the safe interaction of all elements of the highway transportation system (i.e., pedestrians, bicyclists, passengers, motorcyclists, drivers, vehicles, and roadways);

(m) demonstrate an understanding of the responsibilities of vehicle ownership (i.e., basic mechanical operation, maintenance, and insuring);

(n) demonstrate an understanding of vehicle dynamics and balance as they relate to operator control, vehicle safety technology, and the effects of occupant restraint systems;

- (o) demonstrate an understanding of current traffic education issues (i.e., parent involvement, zone control, reference points, distracted, drowsy, impaired, and aggressive driving, and graduated driver licensing);
- (p) acquire opportunities for student teaching experiences in classroom and behind-the-wheel situations with novice driving students under the direct supervision of a qualified teacher;
- (q) design educational strategies for appropriate classroom and driving experiences for diverse learners;
- (r) develop a logical scope and sequence plan for training driving skills in the repeated safe operation of a motor vehicle (i.e., controlled but varied situations and environments);
- (s) demonstrate knowledge, application, and evaluation of specific student competencies (i.e., scanning, vehicle balance and control, roadway markings, maneuvers, intersections, and highways);
- (t) demonstrate an understanding of specific competencies as defined by recognized agencies and organizations (i.e., Office of Public Instruction and American Driver and Traffic Safety Education Association);
- (u) design educational strategies for visual perceptual skill development (i.e., scanning, zone control, limiting distractions, risk management, and defensive driving principles);
- (v) experience and demonstrate an understanding of driving skills required to operate and control a vehicle from both the driver's and instructor's seats to successfully handle adverse and emergency situations;
- (w) demonstrate an understanding of crash facts, causation, and current crash avoidance and injury prevention strategies;
- (x) develop a logical scope and sequence plan for a traffic education program that includes the physiological and psychological influences of alcohol and drug abuse as they relate to use of the highway transportation system;
- (y) demonstrate skills and techniques using potential equipment to assist learning for students with special needs;
- (z) demonstrate an understanding of techniques and strategies to integrate traffic education into the K-12 curriculum;
- (aa) identify and implement teaching trends and materials which will help assure continued program enhancement;
- (ab) demonstrate an understanding of, and provide tools for, student and program assessment; and
- (ac) demonstrate an understanding of current information on appropriate resources and how to establish an effective traffic education support network within the community. (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.527 AREAS OF PERMISSIVE SPECIAL COMPETENCY

(REPEALED) (History: 20-2-114, MCA; IMP, 20-1-501, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 1998 MAR p. 348, Eff. 1/30/98; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2009 MAR p. 1259, Eff. 7/31/09; AMD, 2012 MAR p. 1038, Eff. 5/25/12; REP, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.528 COMPUTER SCIENCE (1) The program requires that successful candidates:

- (a) demonstrate knowledge of computer science content, models, important principles, and concepts through:
 - (i) knowledge of, and proficiency in, the use of primitive data types;
 - (ii) understanding of data representation;
 - (iii) knowledge of, and proficiency in, the use of static and dynamic data structures;
 - (iv) knowledge of, and proficiency in, the use of common data abstraction mechanisms (e.g., abstract and generic classes such as stacks, trees, etc.); and
 - (v) effective use, manipulation, and explanation of external data stores – various types (text, images, sound) and various locations (local, server, cloud);
- (b) demonstrate knowledge of algorithm design, analysis, and implementation in an object-oriented programming language using data structures and abstract data types covering:
 - (i) algorithm problem solving techniques and strategies and design methodologies;
 - (ii) algorithm verification;
 - (iii) algorithm complexity and efficiency; and
 - (iv) knowledge of at least one of the programming languages, C++, Java, C#, or Ada, and one other current programming language and current programming language trends;
- (c) demonstrate effective design, development, and testing of programs by:
 - (i) using a modern high-level programming language; constructing correctly functioning programs involving simple and structured data types; using compound Boolean expressions; and sequential, conditional, iterative, and recursive control structures;
 - (ii) designing and testing programming solutions to problems in different contexts (i.e., textual, symbolic, numeric, graphic) using advanced data structures;
 - (iii) demonstrating knowledge of and skills regarding the syntax and semantics of two high-level programming languages other than those covered in (b)(iv), their control structures, and their basic data representation;
 - (iv) demonstrating knowledge of and skill regarding program correctness issues and practices (i.e., testing, test data design, and proofs of correctness);
 - (v) demonstrating knowledge of and skill regarding at least three different program development environments in widespread use;
 - (vi) demonstrating knowledge of and the ability to construct multi-threaded client-server applications;

- (vii) demonstrating knowledge of and the ability to construct web sites that utilize complex data bases;
- (viii) demonstrating knowledge of and the ability to construct artificial intelligence and robotic applications; and
- (ix) demonstrating knowledge of the principles of usability and human-computer interaction and be able to apply these principles to the design and implementation of human-computer interfaces;
- (d) demonstrate knowledge of computer systems and networks and be able to:
 - (i) describe the operation of a computer system, CPU and instruction cycle, peripherals, network components, and applications, indicating their purposes and interactions among them;
 - (ii) demonstrate an understanding of operating systems;
 - (iii) demonstrate an understanding of computer networks; and
 - (iv) demonstrate an understanding of the issues involved in building and fielding mobile services;
- (e) demonstrate an understanding of software engineering and be able to demonstrate an understanding of:
 - (i) the difference between computer science and software engineering;
 - (ii) software development methodologies and the software development life cycle; and
 - (iii) the purpose and contents of the software engineering body of knowledge;
- (f) demonstrate an understanding of the key concepts of computer/information security and be able to:
 - (i) demonstrate an understanding of the concept of "attack surface" and the various methods used to minimize an attack surface;
 - (ii) demonstrate an understanding of the importance of maintaining logs of all system activity related to security; and
 - (iii) demonstrate an understanding of the purpose and general functionality of a firewall;
- (g) demonstrate an understanding of the role computer science and software engineering plays in the modern world and be able to demonstrate an understanding of:
 - (i) significant historical events relative to computers and information systems;
 - (ii) the social, ethical, and legal issues and impacts of computing and information systems;
 - (iii) the contributions that computer and information science and software engineering make to science, the humanities, the arts, commerce, and entertainment;
 - (iv) and ability to teach social issues related to the use of computers and information systems in society and the principles for making informed decisions including, but not limited to, security, privacy, intellectual property, equitable access to technology resources, gender issues, cultural diversity, differences in learner needs, limits of computing, and rapid change; and

(v) the many different careers that are closely related to the development and use of computer and information systems;

(h) demonstrate effective content pedagogical strategies that make the discipline comprehensible to students and:

(i) design projects that require students to effectively describe computing artifacts and communicate results using multiple forms of media;

(ii) identify problematic concepts and constructs in computer science and appropriate strategies to address them; and

(iii) promote and model the safe, effective, and ethical use of computer hardware, software, peripherals, and networks and develop digital citizenship.

(History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1991 MAR p. 300, Eff. 3/15/91; AMD, 1992 MAR p. 1475, Eff. 7/17/92; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

Rules 10.58.529 and 10.58.530 are reserved.

10.58.531 EARLY CHILDHOOD EDUCATION (1) The program requires that successful candidates:

- (a) demonstrate an understanding of young children's (birth-age 8) characteristics and needs encompassing multiple, interrelated areas of children's development and learning including physical, cognitive, social, emotional, language, and aesthetic domains as well as learning processes and motivation to learn;
- (b) base their practice on coherent early childhood theoretical perspectives, current research about brain growth and development, and the importance of play;
- (c) apply their understanding of multiple influences on young children's development and learning including family, community, cultural, and linguistic contexts, temperament, approaches, and dispositions to learning (including initiative, self-direction, persistence, and attentiveness), motivation, attachment, economic conditions, health status, opportunities for play and learning, technology and media, and developmental variations;
- (d) understand the potential influence of early childhood programs, including early intervention, on short- and long-term outcomes for children;
- (e) demonstrate the ability to use developmental knowledge including strengths of families and children to create physically and psychologically safe learning environments that are healthy, respectful, supportive, and challenging for each child;
- (f) know about, understand, and value the complex characteristics and importance of children's families and communities including home language, cultural values, ethnicity, socioeconomic conditions, family structures, relationships, stresses, childhood trauma and adverse childhood experiences, supports, and community resources;
- (i) understand the effects of childhood trauma on social, emotional, physical, and behavioral development and be able to demonstrate trauma-informed classroom management strategies; and
- (ii) demonstrate a knowledge of the implications of secondary trauma;
- (g) create respectful, reciprocal relationships with families using a range of formal and informal strategies such as home visits, parent-teacher conferences, family nights, and transition planning into and out of early childhood programs including kindergarten;
- (h) promote and encourage family involvement in all aspects of children's development and learning including assisting families to find and refer resources concerning parenting, mental health, health care, and financial assistance;
- (i) demonstrate essential knowledge and core skills in team building and in communicating with families and colleagues from other disciplines to encourage families' participation in curriculum and program development as well as assessment of children's learning, including identification of children's strengths and needs;
- (j) recognize the goals of assessment and summarize, analyze, and use assessment information gathered through ongoing, systematic observations and other informal and formal assessments, including play-based assessments and developmental screenings to:
 - (i) learn about children's unique qualities;
 - (ii) guide instruction; and
 - (iii) evaluate effective curriculum to maximize children's development and learning;

(k) make ethical considerations when administering and interpreting assessments including:

(i) an understanding of family context and involving families in the assessment process;

(ii) recognizing the importance of establishing positive conditions for assessment (in familiar settings with familiar people); and

(iii) avoiding bias and using culturally sensitive assessments that have established reliability and validity;

(l) create a caring community of learners that supports positive relationships; promotes the development of children's social, emotional, and friendship skills; and assists children in the development of security, self-regulation, responsibility, and problem solving;

(m) utilize a broad repertoire of developmentally appropriate teaching skills and strategies supportive of young learners, such as integrating curricular areas; scaffolding learning; teaching through social interactions; providing meaningful child choice; implementing positive guidance strategies; and making appropriate use of technology;

(n) provide curriculum and learning experiences that reflect the languages, cultures, traditions, and individual needs of diverse families and children, with particular attention to the cultures of the children and families in the classroom and to American Indians and tribes in Montana;

(o) use a variety of learning formats and contexts to support young learners, including creating support for extended play, creating effective indoor and outdoor learning centers, teaching primarily through individual and small group contexts, and utilizing the environment, schedule, and routines as learning opportunities;

(p) design, implement, and evaluate developmentally meaningful, integrated, and challenging curriculum for each child using professional knowledge, Montana's Early Learning Standards, Montana Content Standards (K-5), and Indian Education for All;

(q) integrate and support in-depth learning using both spontaneous and planned curricula and teaching practices in each of the academic discipline content areas including language and literacy; science; mathematics; social studies; the performing and visual arts; health and well-being; and physical development, skills, and fitness by:

(i) demonstrating knowledge and understanding of theory and research and applying knowledge in the areas of language, speaking and listening, reading and writing processes, literature, print and non-print texts, which are inclusive of texts from and about American Indians and tribes in Montana, and technology; and planning, implementing, assessing, and reflecting on English/language arts and literacy instruction that promotes critical thinking and creative engagement;

(ii) demonstrating knowledge, understanding, and use of the fundamental concepts of physical, life, earth, and space sciences to design and implement age-appropriate inquiry lessons to teach science, to build student understanding for personal and social applications, to convey the nature of science, the concepts in science and technology, the history and nature of science, including scientific contributions of American Indians and tribes in Montana;

(iii) demonstrating knowledge, understanding, and use of the major concepts, and procedures, and reasoning processes of mathematics that define number systems and number sense, operations, algebra, geometry, measurement, data analysis statistics and probability in order to foster student understanding and use of patterns, quantities, and spatial relationships that can represent phenomena, solve problems, and deal with data to engage students in problem solving, reasoning and proof, communication, connections, and representation, including culturally inclusive lessons and examples relating to American Indians and tribes in Montana;

(iv) demonstrating knowledge, understanding, and use of the major concepts and modes of inquiry from the social studies, the integrated study of history, government, geography, economics including personal financial literacy, and an understanding of the social sciences and other related areas to promote students' abilities to make informed decisions as citizens of a culturally diverse democratic society, including the cultural diversity of American Indians and tribes in Montana, and interdependent world;

(v) demonstrating knowledge, understanding, and use of the content, functions, and achievements of the performing arts (dance, music, drama) and the visual arts as primary media for communication, inquiry, perspective, and engagement among students, and culturally diverse performing and visual arts inclusive of the works of American Indian artists and art in Montana;

(vi) demonstrating knowledge, understanding, and use of the major concepts in the subject matter of health education to create opportunities for student development and practice of skills that contribute to good health for all young children; and

(vii) demonstrating knowledge, understanding, and use of human movement and physical activity as central elements to foster active, healthy life styles, including health nutrition, and enhanced quality of life for all students;

(r) base curriculum planning on the understanding of the particular significance of social, emotional, and behavioral development as the foundation for young children's school readiness and future achievements;

(s) uphold and use state and national codes of ethical conduct for the education of young children and other applicable regulations and guidelines to analyze, resolve, and discuss implications of professional ethical dilemmas with respect to the child, family, colleagues, and community;

- (t) collaborate with multiple stakeholders, including:
 - (i) teachers in preceding and subsequent grade levels to increase continuity and coherence across ages/grades;
 - (ii) families and interdisciplinary professionals to meet the developmental needs of each child; and
 - (iii) relevant community and state resources to build professional early learning networks that support high quality early learning experiences for young children and their families;
 - (u) use formal and informal assessments, early learning professional knowledge, reflection, collaborative relationships, and critical thinking to analyze and continuously improve professional practices with young children and their families;
 - (v) identify and involve oneself with the distinctive history, values, knowledge base, and mission of the early childhood field;
 - (w) engage in informed advocacy for young children and the early childhood profession; and
 - (x) demonstrate knowledge, skills, and dispositions during well-planned and sequenced clinical experiences working with children and families in two different age groups (3-5 and 5-8) and two types of the settings:
 - (i) one of which must include a Kindergarten-3rd grade experience in an accredited school setting for a formal student teaching experience; and
 - (ii) the second clinical site may include state-licensed child care centers or homes, Head Start, and community or school-based preschool programs. (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.532 ELEMENTARY (1) The program requires that successful candidates:

- (a) demonstrate knowledge and understanding of the major concepts, principles, theories, and research related to the development of children and young adolescents and apply these understandings to construct learning opportunities that support individual student development, acquisition of knowledge, and engagement in learning;
- (b) demonstrate knowledge, understanding, and use of the central concepts as outlined in Montana content standards, tools of inquiry, and structures of content for students across grades K-8 and engage students in meaningful learning experiences that develop students' competence in subject matter and skills for various developmental levels;

(c) demonstrate knowledge and understanding of theory and research and apply knowledge in the areas of language, speaking and listening, reading and writing processes, literature, print and non-print texts, which are inclusive of texts from and about American Indians and tribes in Montana; and technology, and plan, implement, assess, and reflect on English/language arts and literacy instruction that promotes critical thinking and creates engagement;

(d) demonstrate knowledge, understanding, and use of the fundamental concepts of physical, life, earth, and space sciences to design and implement age-appropriate inquiry lessons to teach science, to build student understanding for personal and social applications, to convey the nature of science, the concepts in science and technology, the history and nature of science, including scientific contributions of American Indians and tribes in Montana;

(e) demonstrate knowledge, understanding, and use of the major concepts and procedures that define number operations, algebra, geometry, measurement, data analysis and probability to engage elementary students in problem solving, reasoning, constructing arguments, communication, connections, and representation, including culturally inclusive lessons and examples relating to American Indians and tribes in Montana;

(f) demonstrate knowledge, understanding, and use of the major concepts and modes of inquiry from the social studies, the integrated study of history, government, geography, economics, including personal financial literacy, and an understanding of the social sciences and other related areas to promote elementary students' abilities to make informed decisions as citizens of a culturally diverse democratic society, including the cultural diversity of American Indians and tribes in Montana, and interdependent world;

(g) demonstrate knowledge, understanding, and use of the content, functions, and achievements of dance, music, theater, and the visual arts as primary media for communication, inquiry, perspective, and engagement among elementary students, and culturally diverse performing and visual arts inclusive of the works of American Indian artists and art in Montana;

(h) demonstrate knowledge, understanding, and use of the major concepts in the subject matter of health education to create opportunities for student development and practice of skills that contribute to good health for all elementary students;

(i) demonstrate knowledge, understanding, and use of human movement and physical activity as central elements to foster active, healthy life styles and enhanced quality of life for all elementary students;

(j) demonstrate knowledge, understanding, and use of interdisciplinary connections to integrate subject matter contents, employing inclusive ideas and issues that engage students' ideas, interests, concerns, and experiences;

(k) plan and implement instructional strategies based on knowledge of individual students, learning theory, content, connections across the curriculum, curricular goals, and community;

:

(l) demonstrate understanding of how elementary students, within different populations, including American Indians and tribes in Montana, differ in development and approaches to learning and demonstrate the ability to differentiate instruction for learners of all cognitive abilities;

(m) demonstrate knowledge of proven instructional strategies and use this knowledge to develop elementary students' ability to use critical thinking, problem solving, and current and emerging technologies;

(n) demonstrate knowledge and understanding of individual and group motivation and behavior and apply this knowledge and understanding to foster active engagement in learning, self-motivation, and positive interaction and to create supportive learning environments;

(o) use knowledge and understanding of effective verbal, nonverbal, and media communication techniques in elementary learning environments to foster active inquiry, collaboration, and supportive interaction among students; and

(p) demonstrate knowledge and understanding of formative and summative assessment strategies and use this knowledge and understanding to evaluate and ensure the continuous intellectual, social-emotional, and physical development of elementary students. (History: 20-2-114, MCA; IMP, 20-1-501, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07 (History: 20-2-114, MCA; IMP, 20-2-121, MCA; TRANS, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.533 MIDDLE GRADES (4-8) (1) The program ensures that successful candidates demonstrate knowledge of young adolescent development and an understanding of the middle grades learner and learning. Candidates demonstrate:

(a) knowledge and understanding of the major concepts, principles, theories, and research related to young adolescent development (grades 4 through 8) and apply this knowledge and understanding when making curricular decisions, planning and implementing instruction, and participating in middle grades programs and practices;

(b) knowledge of young adolescents in the areas of intellectual, physical, nutritional, social, emotional, behavioral, and moral characteristics, individual needs, and interests, and apply this knowledge to create healthy, respectful, supportive, and challenging learning environments for all young adolescents, including those whose language and cultures are different from their own;

(i) understand the effects of childhood trauma on social, emotional, physical, and behavioral development and be able to demonstrate trauma-informed classroom management strategies;

(ii) demonstrate a knowledge of the implications of secondary trauma;

(c) knowledge and understanding of the implications of diversity on the development of young adolescents and apply that understanding to implement curriculum and instruction that is responsive to young adolescents' local, tribal, Montana, national, and international histories, language/dialects, and individual identities;

(d) understanding of young adolescent development and apply that understanding when planning and implementing middle grades curriculum and when selecting and using instructional strategies; and

(e) knowledge of young adolescent development when making decisions about their role in creating and maintaining developmentally responsive learning environments and when participating in effective middle grades instructional and organizational practices, including interdisciplinary team organization and advisory programs.

(2) The program ensures that successful candidates demonstrate in-depth interdisciplinary knowledge of the middle grades content, standards, and curriculum and the ability to assist all young adolescents in understanding the interdisciplinary nature of knowledge. Candidates demonstrate:

(a) knowledge and understanding of theory and research and apply knowledge in the areas of language, speaking, and listening; reading and writing processes; literature, print, and non-print texts, which are inclusive of texts from and about American Indians and tribes in Montana; and technology; and plan, implement, assess, and reflect on English/language arts and literacy instruction that promotes critical thinking and creative engagement for young adolescents;

(b) knowledge, understanding, and use of the fundamental concepts of physical, life, earth, and space sciences to design and implement age-appropriate inquiry lessons to teach science, to build middle grades student understanding for personal and social applications, to convey the nature of science, the concepts in science and technology, and the history and nature of science, including scientific contributions of American Indians and tribes in Montana;

(c) knowledge, understanding, and use of the major concepts and procedures that define number and operations, algebra, geometry, measurement, data analysis, and probability to engage young adolescent students in problem solving, reasoning and proof, communication, connections, and representation, including culturally inclusive lessons and examples relating to American Indians and tribes in Montana;

(d) knowledge, understanding, and use of the major concepts and modes of inquiry from the social studies, the integrated study of history, government, geography, economics including personal financial literacy, and an understanding of the social sciences and other related areas to promote middle grades students' abilities to make informed decisions as citizens of a culturally diverse democratic society, including the cultural diversity of American Indians and tribes in Montana, and the interdependent world;

(e) knowledge, understanding, and use of the content, functions, and achievements of the performing arts (dance, music, theater) and the visual arts as primary media for communication, inquiry, perspective, and engagement among young adolescent students, and culturally diverse performing and visual arts inclusive of the works of American Indian artists and art in Montana;

(f) knowledge, understanding, and use of health education to create opportunities for middle grades student development and practice of skills that contribute to good physical, social, emotional, and behavioral health for all young adolescents; and

(g) knowledge, understanding, and use of human movement and physical activity as central elements to foster active, healthy life styles, including health nutrition and enhanced quality of life for all young adolescent students.

(3) The program ensures that successful candidates demonstrate knowledge and understanding of middle grades philosophy and school organization.

Candidates demonstrate:

(a) knowledge and understanding of the major concepts, principles, theories, and research underlying the philosophical foundations of developmentally responsive middle grades programs and schools and apply this knowledge and understanding to work skillfully within the middle grades organizational components;

(b) knowledge of the philosophical foundations of developmentally responsive middle grades programs and schools; and

(c) knowledge of the effective components of middle grades programs and apply this knowledge in order to function effectively within a variety of school organizational settings (e.g., grades K-8, 4-6, 6-8, 7-8).

(4) The program ensures that successful candidates demonstrate knowledge and understanding of middle grades curriculum, instruction, assessment, and learning. Candidates demonstrate:

(a) knowledge, understanding, and use of interdisciplinary connections to integrate subject matter contents, employing inclusive ideas and issues that engage middle grades students' ideas, interests, concerns, and experiences;

(b) abilities to plan and implement instructional strategies for middle grades classrooms based on knowledge of individual students, learning theory, content, cross-curricular connections, curricular goals, and an understanding of community;

(c) understanding of how middle grades students differ in their development and approaches to learning, and apply this understanding to differentiate instruction to meet the learning needs of all young adolescents;

(d) knowledge of proven instructional strategies and use this knowledge to develop middle grades students' ability to use critical thinking, problem solving, and current and emerging technologies;

(e) knowledge and understanding of individual and group motivation and behavior among students at the middle grade level to foster active engagement in learning, self-motivation, and positive interaction, and to create supportive learning environments;

(f) knowledge and understanding of effective verbal, nonverbal, and media communication techniques in middle grades learning environments to foster active inquiry, collaboration, and supportive interaction in the middle grades classroom; and

(g) knowledge and understanding of formative and summative assessment strategies and use this knowledge and understanding to evaluate and ensure the continuous intellectual, social-emotional, behavioral, and physical development of middle grades students. (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 2014 MAR p. 2936, Eff. 7/1/15.)

Subchapter 6

Curriculum Principles and Standards: Advanced Programs

10.58.601 PROGRAM PLANNING AND DEVELOPMENT (REPEALED)

(History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2007 MAR p. 190, Eff. 2/9/07; REP, 2014 MAR p. 2936_, Eff. 7/1/15.)

10.58.602 TEACHING AREAS: ADVANCED PROGRAMS (REPEALED)

(History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 2007 MAR p. 190, Eff. 2/9/07; REP, 2014 MAR p. 2936_, Eff. 7/1/15.)

10.58.603 ASSESSMENT OF ADVANCED PROGRAMS

(History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; REP, 2014 MAR p. 2936_, Eff. 7/1/15.)

10.58.604 ADVANCED PROGRAMS (1) Advanced programs are offered at postbaccalaureate levels for:

(a) the continuing education of teachers who have previously completed initial preparation; or

(b) the preparation of other school professionals.

(2) Advanced programs commonly award graduate credit and include master's, specialist, and doctoral degree programs as well as non-degree educator preparation programs offered at the postbaccalaureate level. Examples of these programs include:

(a) teachers who are preparing for a second endorsement at the graduate level in a field different from the field in which they had their first endorsement;

(b) programs for teachers who are seeking a master's degree in the field in which they teach;

(c) programs not tied to endorsement, such as programs in curriculum and instruction; and

(d) programs for other school professionals such as school counselors, school psychologists, educational administrators, and curriculum directors. (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.605 ADVANCED CONTENT AND PEDAGOGICAL KNOWLEDGE

(1) The provider ensures that advanced program candidates:

(a) develop a deep understanding of the critical concepts and principles of their discipline and, by completion, are able to use discipline-specific practices flexibly to advance the learning of all students toward attainment of college- and career-readiness standards;

(b) demonstrate an understanding of and are able to apply knowledge and skills specific to their discipline;

(c) use research and evidence to develop school environments that support and assess P-12 students' learning and their own professional practice specific to their discipline;

(d) apply content and discipline-specific knowledge as reflected in outcome assessments in response to standards of professional associations and national or other accrediting bodies;

(e) demonstrate skills and commitment to creating supportive environments that afford all P-12 students access to rigorous college- and career-ready standards; and

(f) integrate technology standards to support the design, implementation, and assessments of learning experiences and environments to engage students, improve learning, and enrich professional practice. (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.606 ADVANCED CLINICAL PARTNERSHIPS AND PRACTICE

(1) The provider:

(a) ensures that effective partnerships and high-quality clinical practice are central to preparation so that candidates develop the knowledge, skills, and professional dispositions necessary to demonstrate positive impact on all P-12 students' learning and development;

(b) ensures that partners co-construct mutually beneficial P-12 school and community arrangements, including technology-based collaborations, for clinical preparation and share responsibility for continuous improvement of advanced program candidate preparation. Partnerships for clinical preparation can follow a range of forms, participants, and functions. They establish mutually agreeable expectations for advanced program candidate entry, preparation, and exit; ensure that theory and practice are linked; maintain coherence across clinical and academic components of preparation; and share accountability for advanced program candidate outcomes;

(c) ensures that partners co-select, prepare, evaluate, support, and retain high-quality clinical educators, both provider- and school-based, who demonstrate a positive impact on advanced program candidates' development and P-12 student learning and development. In collaboration with their partners, providers use multiple indicators and appropriate technology-based applications to establish, maintain, and refine criteria for selection, professional development, performance evaluation, continuous improvement, and retention of clinical educators in all clinical placement settings; and

(d) works with partners to design clinical experiences of sufficient depth, breadth, diversity, coherence, and duration to ensure that advanced program candidates demonstrate their developing effectiveness in creating environments that support all students' learning and development. Clinical experiences, including technology-enhanced learning opportunities, are structured to have multiple performance-based assessments at key points within the program to demonstrate advanced program candidates' development of the knowledge, skills, and professional dispositions, as delineated in ARM 10.58.605, that are associated with creating a supportive school environment that results in a positive impact on the learning and development of all P-12 students. (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.607 ADVANCED CANDIDATE QUALITY, RECRUITMENT, AND SELECTIVITY (1) The provider:

- (a) demonstrates that the quality of advanced program candidates is a continuing and purposeful part of its responsibility from recruitment, at admission, through the progression of courses and clinical experiences, and to decisions that advanced program completers are prepared to perform effectively and are recommended for licensure where applicable, and demonstrates that development of candidate quality is the goal of educator preparation in all phases of the program;
- (b) presents plans and goals to recruit and support completion of high-quality advanced program candidates from a broad range of backgrounds and diverse populations to accomplish its mission:
- (i) admitted candidates reflect the diversity of Montana's P-12 students; and
 - (ii) the provider demonstrates efforts to know and address local, community, tribal, Montana, regional, or national needs for school and district staff prepared in advanced fields;
- (c) sets admissions requirements, including the CAEP minimum GPA of 3.0 of the average grade point average of its accepted cohort of candidates, and gathers data to monitor applicants and selected pool of candidates, and designs the selection to completion policy that includes multiple assessment measures to determine admission, continuation in, and completion of programs, providing:
- (i) data points are reliable and valid predictors of candidate success and demonstrate that the standard for high academic achievement and ability is met through multiple evaluations and sources of evidence; and
 - (ii) these data are regularly and systematically compiled, summarized, and analyzed to improve the applicant pool, and candidate performance, program quality, and unit operations;
- (d) establishes and monitors attributes and dispositions beyond academic ability that advanced program candidates must demonstrate at admissions and during the program, and selects criteria, describes the measures used and evidence of the reliability and validity of those measures, and reports data that show how the academic and non-academic factors predict advanced program candidate performance in the program and in service; and

(e) creates criteria for program progression and monitors candidates' advancement from admissions through completion. All advanced program candidates demonstrate the ability to create and maintain supportive environments for teaching college- and career-ready standards. Providers present multiple forms of evidence to indicate advanced program candidates' application of content knowledge and research, data-informed decision making, and the integration of technology in all of these domains.

(2) Prior to recommending any advanced program candidate for program completion, the provider documents that the advanced program candidate:

(a) has reached a high standard for content knowledge, data- and research-informed decision making, integration of technology in the discipline, and demonstrates the ability to create, maintain, and enhance supportive environments for effective P-12 learning; and

(b) understands the expectations of the profession, including codes of ethics, professional standards of practice, and relevant laws and policies. (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.608 ADVANCED PROGRAM IMPACT (1) The provider:

(a) demonstrates the impact of its completers on P-12 student learning and development, classroom instruction, and schools, and the satisfaction of its completers with the relevance and effectiveness of their preparation;

(b) documents advanced program completers' impact on P-12 student learning and development using state-supported P-12 data and other measures employed by the provider, including employer surveys, and program completer surveys;

(c) demonstrates, through structured and validated observation instruments and surveys, which completers effectively apply the professional knowledge, skills, and dispositions that the preparation experiences were designed to achieve;

(d) demonstrates, using measures that result in valid and reliable data that employers are satisfied with the advanced program completers' preparation for their assigned responsibilities in working with P-12 students; and

(e) demonstrates, using measures that result in valid and reliable data, that advanced program completers perceive their preparation as relevant to the responsibilities they confront on the job, and that the preparation was effective.

(History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.609 ADVANCED PROVIDER QUALITY ASSURANCE AND CONTINUOUS IMPROVEMENT (1) The provider:

(a) maintains a quality assurance system comprised of valid data from multiple measures, including evidence of candidates' and completers' positive impact on P-12 student learning and development; supports continuous improvement that is sustained and evidence-based, and that evaluates the effectiveness of its completers; and uses the results of inquiry and data collection to establish priorities, enhance program elements and capacity, and test innovations to improve completers' impact on P-12 student learning and development;

(b) develops a quality assurance system which is comprised of multiple measures, that can monitor candidate progress, completer achievements, and provider operational effectiveness;

(c) ensures that its quality assurance system relies on data that are relevant, verifiable, representative, cumulative, and provides specific guidance for improvement, and produces empirical evidence that interpretations of data are valid and consistent;

(d) regularly and systematically assesses performance against its goals and relevant standards, tracks results over time, tests innovations, and the effects of selection criteria on subsequent progress and completion, and uses results to improve program elements and processes;

(e) ensures that measures of advanced program completer impact on the P-12 learning environment, including available outcome data, are based on established best practices, summarized, analyzed, shared widely, and acted upon in decision making related to programs, resource allocation, and future direction; and

(f) assures that appropriate stakeholders, including alumni, employers, practitioners, school and community partners, and others defined by the provider, are involved in program evaluation, improvement, and identification of models of excellence. (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 2014 MAR p. 2936, Eff. 7/1/15.)

Subchapter 7

Specializations: Supervisory and Administrative Programs

10.58.701 SUPERVISORS (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; REP, 2007 MAR p. 190, Eff. 2/9/07.)

10.58.702 SCHOOL PRINCIPALS (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; REP, 1985 MAR p. 1397, Eff. 9/27/85.)

10.58.703 SCHOOL SUPERINTENDENTS (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; REP, 1985 MAR p. 1397, Eff. 9/27/85.)

10.58.704 SCHOOL PRINCIPALS AND SUPERINTENDENTS (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1985 MAR p. 1397, Eff. 9/27/85; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; REP, 2007 MAR p. 190, Eff. 2/9/07.)

10.58.705 SCHOOL PRINCIPALS, SUPERVISORS, AND CURRICULUM DIRECTORS (1) The program requires that successful candidates:

- (a) facilitate the development, articulation, implementation, and stewardship of a school or district vision of learning supported by the school community and:
 - (i) collaboratively develop, implement, and promote a commitment to a shared vision and mission integrated throughout the school system through communication skills, including listening to multiple audiences, knowledge of school staff, and aligning decisions with organizational vision;
 - (ii) promote continuous and sustainable school and program improvement through the use of decision-making and problem-solving skills, an organized climate, application of change theory, and use professional leadership behaviors including self-awareness and reflective practice;
 - (iii) use data to inform goals, assess organizational effectiveness, and promote organizational learning through distributed leadership and data-informed decision making; and
 - (iv) design, implement, assess, and adjust plans to achieve goals through prioritization, flexibility, and adaption;

(b) promote the development of the full educational potential of each person through our public schools by advocating, nurturing, and sustaining positive school culture and instructional program conducive to student learning; staff professional growth based upon current brain-based research for effective teaching and learning; and exhibiting genuine concern for students and:

(i) advocate, nurture, and sustain a culture of collaboration, trust, learning, and high expectations to create a comprehensive, rigorous, and coherent curricular program which addresses postsecondary and life readiness through the use of a curriculum management process and learning theory;

(ii) develop the instructional and leadership capacity of staff in order to create a personalized and motivated learning environment for students through staff assessment and providing comprehensive professional learning opportunities;

(iii) appraise, support, and supervise instruction in accordance with state-adopted standards and associated accountability systems through fostering a culture of continuous improvement which promotes growth, informs practice, and promotes learning;

(iv) develop assessment and accountability systems to monitor and evaluate student progress and the impact of the instructional programs through a curriculum management process; and

(v) maximize instructional time and use appropriate and effective instructional strategies and technologies to support teaching and learning with effective instructional practices and knowledge of child development;

(c) ensure proper management of the organization, operations, and resources for a safe, efficient, and effective learning environment to develop the full educational potential of each person with the use of data and time management and:

(i) develop the capacity for distributed leadership to ensure teacher and organizational growth to support quality instruction and student learning through the implementation of education policy;

(ii) efficiently and effectively use human, fiscal, and capital resources, applying fiscal and management theory; and

(iii) advocate, promote, and protect the social, emotional, and physical safety of students and staff with knowledge of Montana School Law and Special Education Law;

(d) collaborate with families and other community members, respond to diverse community interests and needs, including American Indians and tribes in Montana and mobilize community resources in order to fully develop the educational potential of each person and:

(i) promote family engagement by fostering and sustaining positive relationships with parents, families, caregivers, community members, and partners by exhibiting human relations skills;

(ii) promote understanding, appreciation, and use of the community's diverse cultural, social, and intellectual resources to expand cultural proficiency; and

(iii) collect and analyze data and information pertinent to the educational environment by being an informed consumer of educational research;

(e) act with integrity, fairness, and in an ethical manner in order to develop the full educational potential of each person through our public schools by exhibiting open-mindedness, integrity, consistency, and ethics and:

(i) ensure a system of accountability for every student's academic, social, and emotional success;

(ii) model principles of self-awareness, reflective practice, transparency, and ethical behavior;

(iii) safeguard the values of democracy, equity, and diversity; and

(iv) consider and evaluate the potential moral and legal consequences of decision making and promote social justice to ensure that individual student needs inform all aspects of schooling;

(f) understand, respond to, and influence the larger political, social, economic, legal, and cultural context in order to develop the full educational potential of each person through our public schools and assess, analyze, and anticipate emerging trends and initiatives in order to advocate for children, families, and caregivers by acting to influence local, district, state, and national decisions affecting student learning through the knowledge of community, understanding of political climate, and community relations and resources; and

(g) complete an internship/field experience that provides at least 216 hours of significant opportunities to synthesize and apply the knowledge and practice and develop the skills identified in this rule through substantial, sustained, standards-based work in real settings, planned and guided cooperatively by the institution and properly administratively endorsed school district personnel for graduate credit.

(History: 20-2-114, MCA; IMP, 20-1-501, 20-2-121, MCA; NEW, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.706 SUPERINTENDENTS (1) The successful candidate completes the requirements of ARM 10.58.705 and the following requirements. The program requires that successful candidates:

(a) facilitate the development, articulation, implementation, and stewardship of a school and/or district vision of learning supported by the school community and:

(i) collaboratively develop, implement, and promote a commitment to a shared vision and mission integrated throughout the school system by strategic planning, aligning districtwide curriculum, and facilitating policy-making processes;

(ii) promote continuous and sustainable district improvement by using data to inform goals, assess organizational effectiveness, and promote organizational learning and designing, implementing, assessing and adjusting plans to achieve goals; and

(iii) demonstrate skill in working with school boards;

(b) promote the development of the full educational potential of each person through our public schools by advocating, nurturing, and sustaining a school culture and instructional program conducive to student learning and staff professional growth and:

(i) advocate, nurture, and sustain a culture of collaboration, trust, learning, and high expectations to create a comprehensive, rigorous, and coherent curricular program that addresses post-secondary and life readiness through district academic standards;

(ii) develop the instructional and leadership capacity of staff in order to create a personalized and motivated learning environment for students through comprehensive professional learning opportunities with principals and leaders;

(iii) appraise, support, and supervise instruction in accordance with state standards and associated accountability systems by fostering a culture of continuous improvement which promotes growth and informs practice and promotes learning with multiple measures through district/state standards-based systems;

(iv) develop districtwide assessment and accountability systems to monitor and evaluate student progress and the impact of the instructional programs; and

(v) maximize instructional time, use appropriate and effective instructional strategies and technologies to support teaching and learning through principal supervision and evaluation and developing principal leadership skills;

(c) ensure proper management of the organization, operations, and resources for a safe, efficient, and effective learning environment to develop the full educational potential of each person and:

(i) develop the capacity for distributed leadership to ensure teacher and organizational growth to support quality instruction and student learning;

(ii) efficiently and effectively use human, fiscal, and capital resources, applying fiscal and management theory;

(iii) advocate, promote, and protect the social, emotional, and physical safety of students and staff;

(iv) demonstrate knowledge of information systems;

(v) demonstrate knowledge of student transportation laws and best practices; and

(vi) demonstrate knowledge of Montana school law, Montana school finance, and Montana collective bargaining and employment law;

(d) collaborate with families and other community members, respond to diverse community interests and needs, including American Indians and tribes in Montana families, and mobilize community resources in order to fully develop the educational potential of each person and:

(i) promote family engagement by fostering and sustaining positive relationships with parents, families, caregivers, community members and partners;

(ii) promote understanding, appreciation, and use the community's diverse cultural, social, and intellectual resources to expand the educational experience; and

(iii) collect and analyze data and information pertinent to the educational environment;

(e) act with integrity, fairness, and in an ethical manner in order to develop the full educational potential of each person through our public schools and:

(i) ensure a system of accountability for every student's academic, social, and emotional success;

(ii) model principles of self-awareness, reflective practice, transparency, and ethical behavior;

(iii) safeguard the values of democracy, equity, and diversity;

(iv) consider and evaluate the potential moral and legal consequences of decision making and promote social justice to ensure that individual student needs inform all aspects of schooling; and

(v) demonstrate knowledge of the Americans with Disabilities Act (ADA) and the Individual Disabilities Education Act (IDEA);

(f) understand, respond to, and influence the larger political, social, economic, legal, and cultural context in order to develop the full educational potential of each person through our public schools and assess, analyze, and anticipate emerging trends and initiatives in order to advocate for children, families, and caregivers by acting to influence local, district, state, and national decisions affecting student learning through systemic analysis of issues, knowledge of collective bargaining, marketing strategies, and political and economic trends; and

(g) complete an internship/field experience that provides at least 216 hours of significant opportunities to synthesize and apply the knowledge and practice and develop the skills identified in this rule through substantial, sustained, standards-based work in real settings, planned and guided cooperatively by the institution and properly administratively endorsed school district personnel for graduate credit. (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.707 SCHOOL PSYCHOLOGISTS (1) The program requires that successful candidates:

(a) demonstrate an understanding of the integrated and comprehensive training philosophy/mission, goals, objectives, program of study, and supervised practice;

(b) demonstrate knowledge of these domains in the field of school psychology by:

(i) applying data-based decision making and accountability through varied models and methods of assessment and data collection for identifying strengths and needs, developing effective services and programs, and measuring progress and outcomes;

(ii) applying varied models and strategies of consultation, collaboration, and communication applicable to individuals, families, groups, and systems, and methods to promote effective implementation of services;

(iii) applying effective interventions and instructional support to develop academic skills through a thorough understanding of biological, cultural, and social influences on academic skills; human learning, cognitive, and developmental processes; and evidence-based curricula and instructional strategies;

(iv) applying interventions and mental health services to develop social and life skills to promote social-emotional understanding of biological, cultural, developmental, and social influences on behavior and mental health, behavioral and emotional impacts on learning and life skills, and evidence-based strategies;

(v) understanding individual differences, abilities, disabilities, and other individual student characteristics, principles, and research related to diversity factors for children, families, and schools, factors related to culture, including American Indians and tribes in Montana, context, and individual and role difference; and evidence-based strategies to enhance services and address potential influences related to diversity in development and learning;

(vi) applying schoolwide practices and systems organization, policy development, and climate to promote learning;

(vii) applying principles and research related to resilience and risk factors in learning and mental health, supporting services in schools and communities, multi-tiered prevention, and evidence-based strategies for effective crisis response;

(viii) applying principles and research related to family systems, strengths, needs, and culture; evidence-based strategies to support family influences on children's learning and mental health; and strategies to develop collaboration between families and schools;

(ix) applying research, design, statistics, measurement, varied data collection and analysis techniques, and program evaluation sufficient for understanding research and interpreting data in applied settings;

(x) applying the history and foundations of school psychology; multiple service models and methods; ethical, legal, and professional standards; and other factors related to professional identity and effective practice as school psychologists legal, ethical, and professional practice; and

(xi) integrating information technology into school psychologist practice;

(d) demonstrate knowledge and understanding of orientation to the educational process, assessment for intervention, direct intervention, and indirect intervention.

- (2) The provider shall ensure that:
- (a) practica experiences are distinct from and occur prior to the internship;
 - (b) practica occur at scheduled time(s), are of sufficient length, and are in settings appropriate to the specific training objectives of the program;
 - (c) there is a direct and obvious relationship between practica experiences and the objectives for which the practica are intended;
 - (d) practica experiences occur under conditions of supervision appropriate to the specific training objectives of the program;
 - (e) practica experiences are provided appropriate recognition through the awarding of academic credit;
 - (f) practica experiences occur with university involvement appropriate to the specific training objectives of the program;
 - (g) the quality of practica experiences is systematically evaluated in a manner consistent with the specific training objectives of the program;
 - (h) practica experiences are conducted in accordance with current legal-ethical standards for the profession;
 - (i) candidates demonstrate knowledge of the roles, responsibilities, and functions of other pupil service personnel, including the operation of interdisciplinary teams; and
 - (j) candidates demonstrate knowledge of available school and community resources.
- (3) The comprehensive internship is the culminating experience in school psychology graduate preparation. The successful school psychologist candidates:
- (a) demonstrate, under supervision, their ability to integrate knowledge and skills in providing a broad range of school psychological services and the internship experience:
 - (i) is provided at or near the end of the formal training period;
 - (ii) is designed according to a written plan that provides the student opportunities to gain experience in the delivery of a broad range of school psychological services;
 - (iii) occurs in a setting appropriate to the specific training objectives of the program;
 - (iv) is provided appropriate recognition through the awarding of academic credit;
 - (v) occurs under conditions of appropriate supervision (field-based internship supervisors shall hold a valid credential as a school psychologist for that portion of the internship that is in a school setting, and the portion of the internship, which appropriately may be in a nonschool setting, requires supervision by an appropriately credentialed psychologist);
 - (vi) is supervised (field-based internship supervisors are responsible for no more than two interns at any given time, and university internship supervisors are responsible for no more than 12 interns at any given time);
 - (vii) is based on a positive working relationship and represents a collaborative effort between the university program and field-based supervisors to provide an effective learning experience for the student and university internship supervisors provide at least one on-site contact per semester with each intern and supervisor;

(viii) is a provision for participation in continuing professional development activities;

(ix) is systematically evaluated for quality in a manner consistent with the specific training objectives of the program;

(x) is conducted in a manner consistent with the current legal-ethical standards of the profession; and

(xi) occurs on a full-time basis over a period of one academic year, or on a half-time basis over a period of two consecutive academic years, and at least 600 hours of the internship are completed in a school setting;

(b) complete a field-based internship supervised, on average, at least two hours per week of direct supervision for each intern;

(c) accept an internship placement that provides appropriate support for the internship experience including:

(i) a written agreement specifying the period of appointment and any terms of compensation;

(ii) a schedule of appointments, expense reimbursement, a safe and secure work environment, adequate office space, and support services consistent with that afforded agency school psychologists;

(iii) provision for participation in continuing professional development activities;

(iv) release time for internship supervision; and

(v) a commitment to the internship as a diversified training experience.

(4) The provider ensures that school psychology training programs employ systematic, valid evaluation of candidates, coursework, practica, internship, faculty, supervisors, and resources and use the resulting information to monitor and improve program quality. The provider ensures that school psychology graduate programs shall:

(a) establish and maintain an accountability program to assess the knowledge and capabilities of school psychology candidates and of the impact that interns and graduates have on services to children, youth, families, and other consumers;

(b) incorporate different sources of process and performance information (e.g., instructional evaluation, performance portfolios, field supervisor evaluations, systematic valid procedures are used to evaluate and improve the quality of the program, candidate/graduate performance on licensing/certification examinations, and alumni follow-ups), as appropriate, to evaluate and improve components of the program;

(c) apply specific published criteria, both objective and qualitative, for the assessment and admission of candidates to the program at each level and for candidate retention and progression in the program. The criteria address the academic and professional competencies, as well as the professional work characteristics needed for effective practice as a school psychologist (including respect for human diversity, communication skills, effective interpersonal relations, ethical responsibility, adaptability, and initiative/dependability);

(e) limit the number of credit hours acquired through courses, seminars, and other learning experiences not open exclusively to graduate students to no more than one-third of the student's program;

(f) exclude credit requirements for undergraduate study, study that is remedial, or study which is designed to remove deficiencies in meeting requirements for program admission; and

(g) include a full-time continuous residency or an alternate planned experience for all students and programs allowing alternate planned experiences as a substitute for full-time residency must demonstrate how those experiences are equivalent to experiences commonly associated with residency requirements.

(5) The provider ensures that specialist-level programs follow the standards described by NASP, and:

(a) specialist-level programs consist of a minimum of three years of full-time study or the equivalent at the graduate level;

(b) the program shall include at least 60 graduate semester hours or the equivalent, at least 54 hours of which are exclusive of credit for the supervised internship experience;

(c) institutional documentation of program completion shall be provided; and

(d) specialist level programs include a minimum of one academic year of supervised internship experience consisting of a minimum of 1200 clock hours.

(6) The provider ensures that doctoral programs follow the standards described by NASP. Doctoral programs provide greater depth in multiple domains of school psychology training and practice as specified in these standards. The provider ensures that:

(a) doctoral programs consist of a minimum of four years of full-time study or the equivalent at the graduate level;

(b) the program includes a minimum of 90 graduate semester hours or the equivalent, at least 78 of which are exclusive of credit for the doctoral supervised internship experience and any terminal doctoral project (e.g., dissertation) and shall culminate in institutional documentation; and

(c) the program includes a minimum of one academic year of doctoral supervised internship experience consisting of a minimum of 1500 clock hours.

(History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 1989 MAR p. 397, Eff. 3/31/89; AMD, 1994 MAR p. 2722, Eff. 10/14/94; AMD, 2000 MAR p. 2406, Eff. 9/8/00; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

Subchapter 8

Innovative and Experimental Programs

10.58.801 TYPES OF PROGRAMS (REPEALED) (History: 20-2-114 MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 2007 MAR p. 190, Eff. 2/9/07; REP, 2014 MAR p. 2936, Eff. 7/1/15.)

10.58.802 APPROVAL OF NEW CURRICULAR PROGRAMS (1) The provider may request the approval of a new curricular program by describing the purpose, need, and objectives of the program and the impact on P-12 education.

(2) The provider:

(a) ensures that the program of study is based on current research, proven practice, and emerging trends in this field of P-12 school curriculum;

(b) works cooperatively with accredited school districts, education organizations, agencies, and P-20 stakeholders to design the program;

(c) implements, assesses, and evaluates the program's impact on the identified P-12 needs;

(d) submits regular and systematic reports of the program's impact on P-12 education to the state superintendent and the Board of Public Education; and

(e) updates and maintains program information on its Web page.

(3) The provider:

(a) articulates initial or advanced candidates' learning expectations pursuant to ARM Title 10, chapter 58, subchapters 3, 5, 6, and 7;

(b) aligns learning expectations and outcome assessments to the program objectives;

(c) describes the professional learning process, plan, and timeline to prepare personnel;

(d) establishes assessment and evaluation systems to collect, analyze, use, and report initial or advanced candidate's progress in the program;

(e) ensures that the program is supported by identifiable human and physical resources available to the program and resources not under the control of the institution shall be outlined and confirmed by the Board of Public Education;

(f) creates a timetable that includes:

(i) the program's proposed implementation date;

(ii) the sequence of activities that will occur;

(iii) selection and schedules of regular and systematic intervals of candidate and program evaluations; and

(iv) the approximate date for submitting the program plan, timeline, and reports for program approval to the appropriate institutional officials and to the Superintendent of Public Instruction; and

(g) ensures that program evaluations have definite provisions for performance criteria and follow-up at specified intervals and the evaluations:

(i) align to initial or advanced standards pursuant to ARM Title 10, chapter 58, subchapters 3, 5, 6, and 7; and

(ii) ensure continuous program improvement by using data to inform decisions that provide positive impact on candidates' professional growth and on program development.

(4) The provider shall establish and administer the program and designate the appropriate division, school, college, or department within the institution to act on all matters relating to such program, according to general institutional policies.

(History: 20-2-114, MCA; IMP, 20-2-121 MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; AMD, 2007 MAR p. 190, Eff. 2/9/07; AMD, 2014 MAR p. 2936, Eff. 7/1/15.)

Subchapter 9

Standards for Approving Competency-Based
or Performance-Based Programs

10.58.901 STANDARDS FOR APPROVING COMPETENCY-BASED OR PERFORMANCE-BASED PROGRAMS (REPEALED) (History: 20-2-114, MCA; IMP, 20-2-121, MCA; NEW, 1979 MAR p. 492, Eff. 5/25/79; AMD, 1984 MAR p. 831, Eff. 5/18/84; REP, 2014 MAR p. 2936, Eff. 7/1/15.)