



200 West Baltimore Street • Baltimore, MD 21201 • 410-767-0100 • 410-333-6442 TTY/TDD

TO:

Members of the State Board of Education

FROM:

Lillian M. Lowery, Ed.D. Liecian & Lowery

DATE:

May 20, 2014

SUBJECT:

COMAR 13A.12.02.29, Instructional Leader: STEM, PreK-grade 6

APPROVAL

PURPOSE:

The purpose of this item is to request your approval of a new regulation, COMAR 13A.12.02.29, Instructional Leader: STEM, PreK- grade 6 and to present an analysis of the comments received regarding the proposed regulation.

BACKGROUND INFORMATION:

Maryland's application for *Race to the Top* included provisions for the development of Science, Technology, Engineering, and Mathematics (STEM) preparation programs at the elementary level. Local school systems currently provide STEM training for teachers who are also serving as STEM resources for their respective schools. The Department convened a Work Group to determine certification requirements for the proposed regulation which specifies the post-baccalaureate credits and teaching experience requisite to adding this proposed certification as an endorsement to an existing professional certificate.

The Professional Standards and Teacher Education Board (PSTEB) granted permission to publish the proposed regulation at its November, 2013 meeting. Subsequently, you reviewed the proposed regulation at your December 16, 2013 meeting and determined that a Joint Conference Committee was not needed.

A copy of the proposed regulation as in appeared in the *Maryland Register* on April 4, 2014 is attached; the public comment period ended May 5, 2014. Also attached is an analysis if those comments. The proposed regulation does not have any economic impact nor does it have any impact on individuals with disabilities. There is no corresponding federal standard for this proposed action.

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SUMMARY:

A Work Group of key constituents met to discuss and recommend a new regulation for Instructional Leader: STEM. This new regulation will provide leadership opportunities for teachers in local school systems in the area of STEM education as well as support the provisions of the *Race to the Top* application for the preparation of STEM teachers at the elementary level.

ACTION:

I am requesting approval of the prosed regulation, COMAR 13A.12.02.29, Instructional Leader: STEM, PreK-6.

LML/ jes

Attachments

ANALYSIS OF WRITTEN TESTIMONY PROVIDED TO THE MARYLAND STATE BOARD OF EDUCATION CONCERNING PROPOSED REGULATION, COMAR 13A.12.02.29, INSTRUCTIONAL LEADER: STEM, PREK- GRADE 6

TOPIC:

Adopting the new regulation

Writer:

Honi J. Bamberger, Ph.D., Department of Mathematics, Towson University,

Towson, MD 21286

Comments:

The State of Maryland should adopt this regulation so that the many dedicated

elementary science and mathematics teachers can aspire to continue their

passion of the sciences and be rewarded for their efforts. I strongly support this

regulation.

TOPIC:

Availability of course work

Writer:

Jean A. Mantegna, SPHR, Assistant Superintendent for Human Resources,

Harford County Public schools

Comments:

Is course work available (both on campus and online)?

Staff Response:

The following colleges/universities offer course work in the STEM area: Hood, McDaniel, Notre Dame University of MD, Towson University, University of Maryland, Baltimore County (on-line), and University of Maryland. The regulation also provides flexibility for local school systems to develop Continuing Professional Development (CPD) programs to address the STEM

needs in their respective systems.

Comments

Would undergraduate credit earned as part of the bachelor's degree also be

acceptable?

Staff response:

The focus of the recommended post-baccalaureate credits requires integration of the specified content which typically does not occur at the undergraduate level. There have been numerous work groups which have consistently reported that the mathematics preparation for elementary and early childhood teachers could

be strengthened.

(ii) Introduction to orientation and mobility training whe development of concepts skills required for emphasizing the development of concepts independent vel;

independent to vel;

(d) In ical aspects and disorders to the eye including their current and future impact on the developpy of the student; and

(e) A prediction of not less than the emester hours completed with students withing all impairments.

(2) Two years a satisfactory for hing of students with visual impairments may be substituted for the semester-hour practicum in §C(1)(e) of this regulation. Satisfact my teaching experience shall be established by a series of the east for observation periods per year. If a supervisor certified in teaching students with visual impairments shall to certified in teaching students with visual impairments shall to in cooperation with the special education administrator to provide the required evaluation.]

[D.] C. Special Provision the eacher professionally certified in early childhood, elementary for addle school, accondary, generic special education, or for K—grade 12 education who seeks an endorsement to teach studies with visual impairments [at that level] shall meet the required as of [§C] (48K)—(3) of this regulation.

shall meet the requirements of [§C] (4.4)-(3) of this regulation.

[E.] D. Renewal.

(1) A teacher prifiled for teaching blind/visually impaired students [with visual impairments] shall be tent [at least one course, continuing education unit, or profession development against indicating maintenance of Braille proficiency qualifying soor on a Department approved test of Braille convicted before the statistical analysis and applications. expiration of the initial professional certificate of course work from an IHE or in Department-p. Professional Development credits or Conting (CEUs).

(2) For continued renewal, a teache blind/visigly impaired students shall submit course ork from an IHE or Department of Professinal Development credits or Continual (CEU), which must include maintenance of kn

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Subtitle 12 CERTIFICATION

13A.12.02 Teachers

Authority: Education Article, §\$2-205, 2-303(g), 6-121, and 6-701-6-705, Annotated Code of Maryland

Notice of Proposed Action [14-090-P]

The Professional Standards and Teacher Education Board proposes to adopt new Regulation .29 under COMAR 13A.12.02 Teachers. This action was considered at the Professional Standards and Teacher Education Board meeting on October 3, 2013.

Statement of Purpose The purpose of this action is to add a new teaching endorsement in the area of instructional Leader: STEM, PreK-grade 6.

Comparison to Federal Standards There is no corresponding federal standard to this proposed action.

Estimate of Economic Impact The proposed action has no economic impact.

Economic Impact on Small Businesses The proposed action has minimal or no economic impact on small businesses.

Impact on Individuals with Disabilities The proposed action has no impact on individuals with disabilities.

Opportunity for Public Comment

Comments may be sent to Jean Satterfield, Assistant State Superintendent, Division of Educator Effectiveness, Maryland State Department of Education, 200 West Baltimore Street, Baltimore, Maryland 21201, or call 410-767-0385 (TTY 410-333-6442), or email to jsatterfield@msde.state.md.us, or fax to 410-333-8963. Comments will be accepted through May 5, 2014. A public hearing has not been scheduled.

Open Meeting

Pinal action on the proposal will be considered by the Professional Standards and Teacher Education Board during a public meeting to be held on June 5, 2014, at 200 West Baltimore Street, Baltimore, Maryland 21201.

.29 Instructional Leader: STEM (Grades PreK-6).

To add an endorsement as instructional Leader: STEM, grades PreK-6, an applicant shall:

A. Hold a valid, professional certificate with certification in early childhood education or elementary education;

B. Complete a minimum of 18 semester hours of postbaccalaureate credit or Department-approved (Professional Development credits, to include the following: Continuing

(1):12 semester hours in STEM education which integrates a ce of the following content:

() Ledhnology literacy; and (EliChildforative learning.

menter hours or the equivalent in leadership knowledge providing professional learning in a school/district

least 3 semester hours or the equivalent in a supervised in or school-based internship in which the applicant works with a range of students in grades Prek-6 and adult learners in a variety of professional development settings; and

C. Present verification of 27 months of satisfactory teaching experience.

> LILLIAN M. LOWERY, Ed.D. State Superintendent of Schools