

NOTICE OF INTENT TO ACT UPON A REGULATION

NOTICE OF HEARING FOR THE AMENDMENT AND ADOPTION OF REGULATION OF THE COMMISSION ON PROFESSIONAL STANDARDS IN EDUCATION

The Nevada Commission on Professional Standards in Education will hold a public hearing at 8:00 AM on **March 16, 2016 to be video-conferenced in the following locations:**

Department of Education
9890 South Maryland Pkwy
Board Room
Las Vegas, NV 89183

and

Department of Education
700 East Fifth Street
Board Room
Carson City, NV 89701

The purpose of the hearing is to receive comments from all interested persons regarding the amendments/adoptions of regulations that pertain to Chapter 391 of the Nevada Administrative Code (NAC). If no person who is directly affected by the proposed action appears to request time to make an oral presentation, the Commission on Professional Standards in Education may proceed immediately to act upon any written submissions.

The time for the hearing is scheduled as follows:

8:00 A.M. Public Hearing and Possible Adoption of Proposed Amendments to R153-15; NAC Chapter 391 relating to education; revising the required and elective courses that may be counted toward a comprehensive major or minor in mathematics; and providing other matters properly relating thereto.

NOTE: Possible action to adopt may be taken at this meeting.

The following information is provided pursuant to the requirements of NRS 233B.0603:

1. The need and the purpose of the proposed amendments to NAC Chapter 391 are based on recommendations from the Nevada Department of Education. Proposed amendments are related to education; revising the required and elective courses that may be counted toward a comprehensive major or minor in mathematics.
2. The Subjects and Issues involved in the regulation are those who would be seeking to obtain the license or endorsement for major or minor in mathematics.
3. There is no economic effect of the regulation on the business and industry that it regulates.
There is no economic effect of the regulation on the public.
There are no immediate or long-term effects on the public.
4. The estimated cost to the Department of Education for enforcement of the proposed regulations is none.
5. There are no federal laws affecting the proposed regulation and there is no duplication or overlap of state or local governmental agencies.

6. The proposed regulation is not required pursuant to federal law.
7. The proposed regulation does not include provisions which are more stringent than a federal regulation that regulates the same activity.
8. The proposed regulation does not establish a new fee. The proposed regulation does not increase the existing licensure fee.

Persons wishing to comment upon the proposed action of the Commission on Professional Standards in Education may appear at the scheduled public hearing or may address their comments, data, views or arguments, in written form, to the Commission Secretary, Nevada Department of Education, 9890 S. Maryland Parkway, Las Vegas, NV 89183. The Department of Education must receive written submissions **on or before March 2, 2016**. If no person who is directly affected by the proposed action appears to request time to make an oral presentation, the Commission on Professional Standards in Education may proceed immediately to act upon any written submissions.

A copy of this notice and the regulation to be amended/adopted will be on file at the State Library and Archives, 100 Stewart Street, Carson City, Nevada, for inspection by members of the public during business hours. Additional copies of the notice and the regulation to be amended/adopted will be available at the Nevada Department of Education, 9890 S. Maryland Parkway, Las Vegas, NV 89183, and in all counties at the main public library, for inspection and copying by members of the public during business hours. This notice and the text of the proposed regulation are also available at the State of Nevada Register of Administrative Regulations which is prepared and published monthly by the Legislative Counsel Bureau pursuant to NRS 233B.0653 and on the Internet at <http://www.leg.state.nv.us>. Copies of this notice and the proposed regulation will also be mailed to members of the public upon request. A reasonable fee may be charged for copies if it is deemed necessary.

Upon adoption of any regulation, the agency, if requested to do so by an interested person, either prior to adoption or within 30 days thereafter, will issue a concise statement of the principal reasons for and against its adoption and incorporate therein its reason for overruling the consideration urged against its adoption.

This notice of hearing has been posted at the following locations: Nevada Department of Education, both locations; 17 Nevada County School District Offices; 17 Nevada Public Libraries; Clark County Classroom Teachers Association; Washoe County Teachers Association; Nevada State Education Association, both locations; and Nevada State Library and Archives.

**PROPOSED REGULATION OF THE COMMISSION ON
PROFESSIONAL STANDARDS IN EDUCATION**

LCB File No. R153-15

January 8, 2016

EXPLANATION – Matter in *italics* is new; matter in brackets [~~omitted material~~] is material to be omitted.

AUTHORITY: §1, NRS 391.019.

A REGULATION relating to education; revising the required and elective courses that may be counted toward a comprehensive major or minor in mathematics; and providing other matters properly relating thereto.

Legislative Counsel's Digest:

Existing law requires the Commission on Professional Standards in Education to adopt regulations: (1) identifying fields of specialization in teaching which require the specialized training of teachers; and (2) setting forth the requirements a teacher must satisfy to qualify for an endorsement in each field of specialization. (NRS 391.019) Existing regulations authorize a teacher who possesses a secondary license which is endorsed for a recognized field of teaching to teach in: (1) departmentalized seventh or eighth grade; (2) a junior high school; (3) an approved middle school; or (4) a senior high school. Such an endorsement is based on an applicant's field of specialization or concentration, usually designated as his or her major, minor or area of concentration. (NAC 391.125) Existing regulations recognize mathematics as a comprehensive major or minor. (NAC 391.1301) Existing regulations also prescribe certain required courses that a major or minor in mathematics must include and certain elective courses that may be counted toward the hours of credit required for a comprehensive major or minor in mathematics. (NAC 391.13043) This regulation removes authorization for a person seeking a major or minor in mathematics to receive credit for a course in numerical analysis as an alternative to certain other required courses. This regulation also adds certain courses, including numerical analysis, to the list of elective courses that may be counted towards the required hours of credit toward a comprehensive major or minor in mathematics.

Section 1. NAC 391.13043 is hereby amended to read as follows:

391.13043 1. A comprehensive major in mathematics consists of 36 semester hours of credit which must include:

(a) At least 9 semester hours of credit in calculus courses.

(b) In addition to the semester hours required by paragraph (a), at least 27 semester hours of credit in courses involving:

(1) Probability or statistics;

(2) Number theory ; ~~{or numerical analysis;}~~

(3) Linear algebra;

(4) Abstract or modern algebra;

(5) Finite mathematics or discrete processes; and

(6) If necessary to complete 27 semester hours of credit:

(I) The history of mathematics;

(II) Euclidean geometry;

(III) Non-Euclidean geometry;

(IV) Mathematical computer applications, data structures or programming;

(V) Differential equations; ~~{and}~~

(VI) Real number analysis ~~{-}~~ ;

(VII) Multivariate calculus;

(VIII) Numerical analysis; and

(IX) Logic or methods of mathematical proof.

2. A person who holds a bachelor's degree or a higher degree with a major in mathematics that was conferred by a regionally accredited college or university shall be deemed to have

qualified for a comprehensive major in mathematics if he or she has satisfied the requirements of NAC 391.120.

3. A recipient of a comprehensive major in mathematics may teach in grades 7 to 12, inclusive, any course in mathematics included in the course of study adopted by the Board.

4. A comprehensive minor in mathematics consists of 24 semester hours of credit which must include:

(a) At least 6 semester hours of credit in calculus courses.

(b) In addition to the semester hours required by paragraph (a), at least 18 semester hours of credit in courses involving:

(1) Probability or statistics;

(2) Finite mathematics, discrete mathematics ~~and~~ *or* number theory ; ~~or numerical analysis;~~

(3) Linear, abstract or modern algebra; and

(4) If necessary to complete 18 semester hours of credit:

(I) Multivariate calculus;

(II) The history of mathematics;

(III) Differential equations;

(IV) Real number analysis;

(V) Euclidean geometry;

(VI) Non-Euclidean geometry; ~~and~~

(VII) Mathematical computer applications, data structures or programming ~~and~~ ;

(VIII) Numerical analysis; and

(IX) Logic or methods of mathematical proof.

5. A person who holds a bachelor's degree or a higher degree with a minor in mathematics that was conferred by a regionally accredited college or university shall be deemed to have qualified for a comprehensive minor in mathematics if he or she has satisfied the requirements of NAC 391.120.

6. A recipient of a comprehensive minor in mathematics may teach in grades 7 to 12, inclusive, any course in mathematics included in the course of study adopted by the Board up to and including Algebra II and Geometry I.

7. A person who received an endorsement to teach mathematics before January 14, 1998, but who has not fulfilled the requirements for calculus, may teach in grades 7 to 12, inclusive, any course in mathematics included in the course of study adopted by the Board up to and including Algebra II and Geometry I.

8. A person who receives an endorsement to teach mathematics on or after January 14, 1998, must complete a course in the methods of teaching mathematics to renew the endorsement.

BRIAN SANDOVAL
Governor

STEVE CANAVERO, Ph.D.
Interim Superintendent
of Public Instruction

STATE OF NEVADA



DEPARTMENT OF EDUCATION
700 E. Fifth Street
Carson City, Nevada 89701-5096
(775) 687 - 9200 · Fax: (775) 687 - 9101
<http://www.doe.nv.gov>

SOUTHERN NEVADA OFFICE
9890 S. Maryland Parkway, Suite 221
Las Vegas, Nevada 89183
(702) 486-6458
Fax: (702) 486-6450
www.doe.nv.gov/Educator_Licensure

**SMALL BUSINESS IMPACT STATEMENT
PURSUANT TO NRS 233B.0608**

Date: 12/01/2015

RE: Proposed Adoption of Regulations Revising NAC 391.13043 Major or minor in mathematics. (NRS 391.019)

I, Steve Canavero, Ph.D., being duly appointed Interim Superintendent of Public Instruction, do hereby certify that, to the best of my knowledge or belief:

1. The proposed changes to the regulation NAC 391.13043 are not likely to (a) impose a direct or significant economic burden upon a small business, or (b) directly restrict the formation, operation or expansion of a small business.
2. A concerted effort was made to determine any economic burden. The Department of Education has relied on the expert knowledge of Department staff and the Attorney General's Office the impact is solely on school districts and the Department of Education.
3. All relevant materials were reviewed and the Department considered its history with implementing similar regulations; the proposed changes are within the historic scope of the Department's activities and present no new cost of enforcement.
4. Comment has not been solicited from small business, and no summary of their response is provided, because small businesses are not impacted by this regulation and thus no burden or economic impact can be assessed.

I hereby further certify that, to the best of my knowledge or belief, a concerted effort was made to determine the impact of the regulation on small businesses and that the information contained in this statement was prepared properly and is accurate.

Respectfully submitted,

A handwritten signature in blue ink that reads "Steve Canavero".

Steve Canavero, Ph.D.
Interim Superintendent of Public Instruction