

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

LCB File No. R093-02

Effective November 13, 2002

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

AUTHORITY: §1, NRS 391.019.

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 27 semester hours of credit in courses in methods of teaching mathematics and courses involving:

- (1) Euclidean and noneuclidean geometry;
- (2) Probability or combinatorics;
- (3) The theory of numbers and solving problems;
- (4) Computer application and programming;
- (5) Statistics or data analysis;
- (6) Linear algebra;
- (7) Abstract or modern algebra;
- (8) Finite mathematics or discrete processes; and
- (9) If necessary to complete 27 semester hours of credit:
 - (I) The history of mathematics;
 - (II) Numerical analysis;

(III) An analysis of the real numbers system;

(IV) Differential equations; and

(V) Data structures and advanced programming.

(b) At least 9 semester hours of credit in courses involving:

(1) Differential calculus;

(2) Integral calculus; and

(3) Multivariable calculus.

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 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.

~~3.1~~ 4. A comprehensive minor in mathematics consists of 24 semester hours of credit in courses in methods of teaching mathematics and courses involving:

(a) Euclidean and noneuclidean geometry;

(b) Probability or combinatorics;

(c) The theory of numbers and solving problems;

(d) Computer application and programming;

(e) Statistics or data analysis;

(f) Differential calculus; and

(g) If necessary to complete 24 semester hours of credit:

(1) Integral calculus;

- (2) Multivariable calculus;
- (3) The history of mathematics;
- (4) Finite mathematics or discrete processes;
- (5) Linear algebra;
- (6) Abstract and modern algebra;
- (7) Differential equations; and
- (8) Data structures and advanced programming.

~~[4.]~~ **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 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.

~~[5.]~~ **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.

~~[6.]~~ **8.** To renew a comprehensive major or minor in mathematics, the holder must complete at least 6 semester hours of course work before the endorsement expires.

~~[7.]~~ **9.** 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.

NOTICE OF ADOPTION OF PROPOSED REGULATION
LCB File No. R093-02

The Commission on Professional Standards in Education adopted regulations assigned LCB File No. R093-02 which pertain to chapter 391 of the Nevada Administrative Code on August 15, 2002.

Notice date: 7/12/2002
Hearing date: 8/15/2002

Date of adoption by agency: 8/15/2002
Filing date: 11/13/2002

INFORMATIONAL STATEMENT

The following statement is submitted for adopted amendments to Nevada Administrative Code 391:

1. A description of how public comment was solicited, a summary of public response, and explanation how other interested persons may obtain a copy of the summary.

Notice of Workshop to Solicit Comments on Proposed Regulations was sent to approximately 100 individuals and educational organizations. One workshop was held on July 12, 2002. There were comments from the public.

The Notice of Intent to Act Upon a Regulation for public hearing and adoption of the proposed revisions to NAC 391.13043, were sent to approximately 100 individuals and educational organizations. The public hearing was conducted on August 15, 2002, to provide the opportunity for comments by affected parties and the public. There were comments from the public. The Commission adopted the language as presented.

2. The Number of Persons Who:

- a) Attended Each Hearing: Workshop: 3 First Hearing: 9 Second Hearing: N/A
- b) Testified at Each Hearing: Workshop: 2 First Hearing: 2 Second Hearing: N/A
- c) Submitted Written Statements: Workshop: 0 First Hearing: 1 Second Hearing: N/A

A copy of any written comments may be obtained by calling Keith Rheault, Deputy Superintendent at the Nevada Department of Education, (775) 687-9224, or by writing to the Nevada Department of Education, 700 East Fifth Street, Carson City, Nevada 89701-5096.

3. A description of how comment was solicited from affected businesses, a summary of the response and an explanation how other interested parties may obtain a copy of the summary.

Comments were solicited through the workshop notice of July 12, 2002, and the public hearing notice of August 15, 2002.

At the July 12, 2002, Workshop to Solicit Comments, two individuals from the public spoke to the proposed language revisions.

At the August 15, 2002, public hearing two individuals spoke to the proposed language.

Summary of Comments:

Joe Schelkelway stated that Clark County School District is having difficulty getting individuals licensed as they have a major or minor in mathematics, but their transcripts do not reflect the name of the specific coursework.

Concerns were expressed regarding the specific names of the coursework and those courses are hard to find for individuals to take. Also, individuals who have coursework above the listed courses are not eligible to be licensed and are required to go back to take entry-level coursework.

A copy of the summary and/or minutes of the public hearing may be obtained by calling Keith Rheault, Deputy Superintendent at the Nevada Department of Education, (775) 687-9224, or by writing to the Nevada Department of Education at 700 East Fifth Street, Carson City, Nevada 89701-5096.

4. If the regulation was adopted with or without change to any part of the proposed regulation, a summary of the reasons for adopting.

The Commission on Professional Standards in Public Education adopted the regulation language at the public hearing held August 15, 2002, without revision to the proposed language. The reason for adopting the regulation was to streamline the licensure process for issuing Mathematics Endorsements.

5. The estimated economic effect of the adopted regulation on the business that it is to regulate and on the public. These must be stated separately and each case must include:

There is no economic effect on the business which is regulated. There is no estimated economic effect on the public, either adversely or beneficially, nor immediate or long term.

6. The estimated cost to the agency for enforcement of the adopted regulation.

There is no additional cost to the agency for enforcement of this regulation.

7. A description of any regulations of other state or governmental agencies which the proposed regulation overlaps or duplicates and a statement explaining why the duplication or overlapping is necessary. If the regulation overlaps or duplicates a federal regulation, the name of the regulating federal agency.

No other state or governmental agency regulations will be overlapped or duplicated by the above noted regulation. There is no duplication or overlap of federal regulations.

8. If the regulation includes provisions which are more stringent than a federal regulation which regulates the same activity, a summary of such provisions.

There are none.

9. If the regulation provides a new fee or increases an existing fee, the total annual amount the agency expects to collect and the manner in which the money will be used.

This regulation does not provide or involve a new fee.