PROPOSED REGULATION OF THE COMMISSION ON

PROFESSIONAL STANDARDS IN EDUCATION

LCB File No. R127-05

September 12, 2005

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 educational personnel; revising requirements for a major or minor in mathematics; and providing other matters properly relating thereto.

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)~~] ***statistics;***

(2) Number theory or numerical analysis;

(3) Linear algebra;

[~~(7)~~] ***(4)*** Abstract or modern algebra;

~~[(8)]~~ ***(5)*** Finite mathematics or discrete processes; and

~~[(9)]~~ ***(6)*** 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)~~ ***Euclidean geometry;***

(III) Non-Euclidean geometry;

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

(V) Differential equations; and

~~[(V) Data structures and advanced programming.~~

~~(b) At]~~ ***(VI) Real number analysis.***

(b) In addition to the semester hours required by paragraph (a), at least 9 semester hours of credit in ***calculus*** 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.

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)]~~ ***which must include:***

(a) At least 18 semester hours of credit in courses involving:

(1) 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)]~~ ***statistics;***

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

(3) Linear, abstract or modern algebra; and

(4) If necessary to complete ~~[24]~~ ***18*** semester hours of credit:

~~[(1) Integral calculus;~~

~~(2) Multivariable calculus;~~

~~(3)]~~

(I) Multivariate calculus;

(II) The history of mathematics;

~~[(4) Finite mathematics or discrete processes;~~

~~(5) Linear algebra;~~

~~(6) Abstract and modern algebra;~~

~~(7)]~~ ***(III)*** Differential equations; ~~[and~~

~~(8) Data structures and advanced programming.]~~

(IV) Real number analysis;

(V) Euclidean geometry;

(VI) Non-Euclidean geometry; and

(VII) Mathematical computer applications, data structures or programming.

(b) In addition to the semester hours required by paragraph (a), at least 6 semester hours of credit in calculus courses.

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.

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. ~~[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.~~

~~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.