

LCB File No. R127-05

PROPOSED REGULATION OF THE COMMISSION ON
PROFESSIONAL STANDARDS IN EDUCATION

Explanation: Matter in italics is new; matter in brackets ~~{}~~ to be omitted.

Statutory Authority: NRS 391.019

NAC 391.13043 Major or Minor in Mathematics

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 non-Euclidean geometry;}~~

~~{(2)}~~ (1) Probability or ~~{combinatorics}~~ *statistics*;

~~{(3) The theory of numbers and solving problems;}~~

(2) *Number theory or numerical analysis*;

~~{(4) Computer application and programming;}~~

~~— (5) Statistics or data analysis;~~

~~— (6)}~~ (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;}~~ *Euclidean and/or non-Euclidean geometry*;

(III) ~~{An analysis of the real numbers system;}~~ *Mathematical computer applications, data structures or programming*;

(IV) ~~{Differential equations;}~~ *Real number analysis*; and

(V) ~~{Data structures and advanced programming.}~~ *Differential equations.*

(b) 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}~~ *which must include the following topics*:

(a) ~~{Euclidean and non-Euclidean geometry;}~~

- ~~[(b)]~~ (a) Probability or ~~[combinatorics]~~ *statistics*;
- ~~[(e)]~~ (b) *Finite mathematics, discrete mathematics, number theory or numerical analysis*; ~~[The theory of numbers and solving problems;]~~
- ~~[(d)]~~ ~~Computer application and programming;~~ (c) *Linear, abstract or modern algebra*;
- ~~[(e)]~~ ~~Statistics or data analysis;~~ (d) *Six semester credits in calculus*; and
- ~~[(f)]~~ ~~Differential calculus; and]~~
- ~~[(g)]~~ (e) If necessary to complete 24 semester hours of credit:
- (1) ~~[Integral]~~ *Multivariate* calculus;
 - (2) ~~[Multivariable calculus]~~ *The history of mathematics*;
 - (3) ~~[The history of mathematics]~~ *Differential equations*;
 - (4) ~~[Finite mathematics or discrete processes]~~ *Real number analysis*;
 - (5) ~~[Linear algebra]~~ *Euclidean and/or non-Euclidean geometry*; and;
 - ~~[(6)]~~ ~~Abstract and modern algebra;~~
 - ~~[(7)]~~ ~~Differential equations; and~~
 - ~~[(8)]~~ ~~Data structures and advanced programming.]~~
- (6) *Mathematical computer applications, data structures or programming.*

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.]~~ 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.