

**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.