

E. Mathematics Specialist Endorsement -- grades K through eight. This subsection is valid until June 30, 2011.

1. The mathematics specialist endorsement is optional.
2. The requirements are:
 - a. An Arizona elementary or special education certificate,
 - b. Three semester hours of courses in the methods of teaching elementary school mathematics, and
 - c. Fifteen semester hours of courses in mathematics education for teachers of elementary or middle school mathematics.

F. Mathematics Endorsement -- grades K through eight. This subsection becomes effective on July 1, 2011.

1. The mathematics endorsement is optional for all K through eight teachers, but recommended for an individual in the position of mathematics specialist, consultant, interventionist, or coach. Nothing in this Section prevents school districts from requiring certified staff to obtain a mathematics endorsement as a condition of employment. The mathematics endorsement does not waive the requirements set forth in R7-2-607(J).
2. The requirements are:
 - a. An Arizona elementary or special education certificate;
 - b. Three years of full-time teaching experience in grades K through eight; and
 - c. Eighteen semester hours to include:
 - i. Three semester hours of data analysis, probability, and discrete mathematics;
 - ii. Three semester hours of geometry and measurement;
 - iii. Six semester hours of patterns, algebra, and functions; and
 - iv. Six semester hours of number and operations.
 - d. Six semester hours to include:
 - i. Three semester hours of mathematics classroom assessment;
 - ii. Three semester hours of research-based practices, pedagogy, and instructional leadership in mathematics.

- e. A passing score on the middle school mathematics knowledge portion of the Arizona Educator Proficiency Assessment may be substituted for the 18 semester hours described in R7-2-615(E)(2)(c).
- f. Completion of a comparable valid mathematics specialist certificate or endorsement from another state may be substituted for the requirements described in R7-2-615(E)(2)(c) and (d).