Mathematics

(b-1)   The State Board of Education by rule shall require that the curriculum requirements for the foundation high school program under Subsection (a) include a requirement that students successfully complete:

     (2)   three credits in mathematics under Section 28.002(a)(1)(B), including one credit in Algebra I, one credit in geometry, and one credit in **any advanced mathematics course** authorized under Subsection (b-2)

(b-15)   A student may earn a distinguished level of achievement under the foundation high school program by successfully completing:

     (1)   **four credits in mathematics**, which **must include Algebra II** and the courses described by Subsection (b-1)(2)

(c-2)   In adopting rules under Subsection (c-1), the State Board of Education shall:

     (1)   require a student in order to earn any endorsement to successfully complete:

          (A)   **four credits in mathematics**, which must include:

               (i)   the courses described by Subsection (b-1)(2); and

               (ii)   **an additional advanced mathematics course** authorized under Subsection (b-2) or an advanced career and technology course designated by the State Board of Education

Minimum High School Program	Recommended High School Program	Distinguished Achievement Program	Foundation High School Program
Three credits: • Algebra I • Geometry • SBOE approved math course	**Four credits:** • Algebra I • Algebra II • Geometry • An additional math credit	**Four credits:** • Algebra I • Algebra II • Geometry • An additional math credit	**Three credits:** • Algebra I • Geometry • An advanced math course

Minimum High School Program	Recommended High School Program	Distinguished Achievement Program	Foundation High School Program
Mathematics--three credits. Two of the credits must consist of Algebra I and Geometry. (A) The final credit may be Algebra II. A student may not combine a half credit of Algebra II with a half credit from another mathematics course to satisfy the final mathematics credit requirement. (B) The final credit may be selected from one full credit or a combination of two half credits from the following courses: (i) Precalculus; (ii) Mathematical Models with Applications; (iii) Independent Study in Mathematics; (iv) Advanced Quantitative Reasoning; (v) AP Statistics; (vi) AP Calculus AB; (vii) AP Calculus BC; (viii) AP Computer Science; (ix) International Baccalaureate (IB) Mathematical Studies Standard Level; (x) IB Mathematics Standard Level; (xi) IB Mathematics Higher Level; (xii) IB Further Mathematics Standard Level; (xiii) Mathematical Applications in Agriculture, Food, and Natural Resources; (xiv) Engineering Mathematics; (xv) Statistics and Risk Management; and (xvi) Robotics Programming and Design.	Mathematics--four credits. Three of the credits must consist of Algebra I, Algebra II, and Geometry. (A) The additional credit may be Mathematical Models with Applications and must be successfully completed prior to Algebra II. (B) The fourth credit may be selected from the following courses: (i) Precalculus; (ii) Independent Study in Mathematics; (iii) Advanced Quantitative Reasoning; (iv) Advanced Placement (AP) Statistics; (v) AP Calculus AB; (vi) AP Calculus BC; (vii) AP Computer Science; (viii) International Baccalaureate (IB) Mathematical Studies Standard Level; (ix) IB Mathematics Standard Level; (x) IB Mathematics Higher Level; (xi) IB Further Mathematics Standard Level; and (xii) Robotics Programming and Design; (xiii) pursuant to the Texas Education Code (TEC), §28.025(b-5), a mathematics course endorsed by an institution of higher education as a course for which the institution would award course credit or as a prerequisite for a course for which the institution would award course credit. The Texas Education Agency (TEA) shall maintain a current list of courses approved under this clause. (C) The additional credit may be selected from the following courses and may be taken after the successful completion of Algebra I and Geometry and either after the successful completion of or concurrently with Algebra II: (i) Engineering Mathematics; (ii) Mathematical Applications in Agriculture, Food, and Natural Resources; and (iii) Statistics and Risk Management.	Mathematics--four credits. Three of the credits must consist of Algebra I, Algebra II, and Geometry. (A) The fourth credit may be selected from the following courses after successful completion of Algebra I, Algebra II, and Geometry: (i) Precalculus; (ii) Independent Study in Mathematics; (iii) Advanced Quantitative Reasoning; (iv) Advanced Placement (AP) Statistics; (v) AP Calculus AB; (vi) AP Calculus BC; (vii) AP Computer Science; (viii) International Baccalaureate (IB) Mathematical Studies Standard Level; (ix) IB Mathematics Standard Level; (x) IB Mathematics Higher Level; (xi) IB Further Mathematics Standard Level; and (xii) Robotics Programming and Design; (xiii) pursuant to the Texas Education Code (TEC), §28.025(b-5), a mathematics course endorsed by an institution of higher education as a course for which the institution would award course credit or as a prerequisite for a course for which the institution would award course credit. The Texas Education Agency (TEA) shall maintain a current list of courses approved under this clause. (B) The additional credit may be selected from the following courses and may be taken after the successful completion of Algebra I and Geometry and either after the successful completion of or concurrently with Algebra II: (i) Engineering Mathematics; and (ii) Statistics and Risk Management.	Mathematics--three credits. Two of the credits must consist of Algebra I and Geometry. The third credit may be selected from the following courses:

Considerations:

- Advanced math courses must prepare students to enter the workforce successfully or postsecondary education without remediation.
- In order to earn an endorsement, a student must earn a total of four mathematics credits.
- Algebra II is required for a student to earn a distinguished level of achievement.
- In the revised TEKS, the prerequisites will impact sequencing options.
- The revised TEKS are scheduled to be implemented in 2015-2016.
- Students must be permitted to use a course that has been developed locally by a school district in partnership with a public or private IHE and local business, labor, and community leaders to satisfy an advanced mathematics requirement.

Decisions Points:

- Determine courses that will be eligible to satisfy the advanced math credit requirements.
- Determine whether to differentiate between courses that may satisfy a third math credit under the foundation high school program and courses that may satisfy a fourth math credit for the endorsements.
- Allow students to combine two half credits to satisfy the advanced mathematics credit requirements?

Examples:

- Allow courses with only an Algebra I prerequisite to satisfy the third math credit requirement under the foundation high school program, but not the fourth math credit requirement under the endorsements.
- Allow courses with an Algebra II prerequisite to satisfy either the third or fourth math credit requirement.
- Identify additional CTE courses to satisfy the advanced mathematics requirement.