

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: <ul style="list-style-type: none"> • Algebra I • Geometry • SBOE approved math course 	Four credits: <ul style="list-style-type: none"> • Algebra I • Algebra II • Geometry • An additional math credit 	Four credits: <ul style="list-style-type: none"> • Algebra I • Algebra II • Geometry • An additional math credit 	Three credits: <ul style="list-style-type: none"> • Algebra I • Geometry • An advanced math course

Minimum High School Program	Recommended High School Program	Distinguished Achievement Program	Foundation High School Program
<p>Mathematics--three credits. Two of the credits must consist of Algebra I and Geometry.</p> <p>(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.</p> <p>(B) The final credit may be selected from one full credit or a combination of two half credits from the following courses:</p> <ul style="list-style-type: none"> (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) <u>Robotics Programming and Design.</u> 	<p>Mathematics--four credits. Three of the credits must consist of Algebra I, Algebra II, and Geometry.</p> <p>(A) The additional credit may be Mathematical Models with Applications and must be successfully completed prior to Algebra II.</p> <p>(B) The fourth credit may be selected from the following courses:</p> <ul style="list-style-type: none"> (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) <u>Robotics Programming and Design;</u> (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. <p>(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:</p> <ul style="list-style-type: none"> (i) Engineering Mathematics; (ii) Mathematical Applications in Agriculture, Food, and Natural Resources; and (iii) Statistics and Risk Management. 	<p>Mathematics--four credits. Three of the credits must consist of Algebra I, Algebra II, and Geometry.</p> <p>(A) The fourth credit may be selected from the following courses after successful completion of Algebra I, Algebra II, and Geometry:</p> <ul style="list-style-type: none"> (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) <u>Robotics Programming and Design;</u> (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. <p>(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:</p> <ul style="list-style-type: none"> (i) Engineering Mathematics; and (ii) Statistics and Risk Management. 	<p>Mathematics--three credits. Two of the credits must consist of Algebra I and Geometry.</p> <p>The third credit may be selected from the following courses:</p>

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.