

State Graduation Requirements for Math

State	Diploma Name	Diploma/Course of Study classification	Math Units	Math Courses
Alabama	Alabama High School Diploma	CCR Default w/personal modification	4	3 credits to include: Algebra I, or its equivalent; Geometry, or its equivalent; Algebra II w/Trig or Algebra II, or its equivalent. One credit from Alabama Course of Study: Mathematics or CTE/AP/IB/postsecondary equivalent courses
Alaska	Alaska High School Diploma	Minimum	2	2 units of credit
Arizona	Arizona High School Diploma	CCR Default w/personal modification	4	4 credits of mathematics to minimally include the following: Two credits containing course content covering the following areas in preparation for proficiency at the high school level on the AIMS test: Number Sense and Operations; Data Analysis, Probability and Discrete Mathematics; Patterns, Algebra and Functions; Geometry and Measurement; and Structure and Logic. These credits shall be taken consecutively beginning with the ninth grade unless a student meets these requirements prior to the ninth grade pursuant to subsection (1)(c)(iv). One credit covering Algebra II or course content equivalent to Algebra II. Courses meeting this requirement may include, but are not limited to, career and technical education and vocational education, economics, science, and arts courses as determined by the local school district governing board or charter school. One credit that includes significant mathematics content as determined by the local school district governing board or charter school. Courses successfully completed prior to the ninth grade that meet the high school mathematics credit requirements may be applied toward satisfying those requirements. The mathematics requirements may be modified for students using a personal curriculum pursuant to R7-2-302.03.
Arizona	Arizona Grand Canyon Diploma	Minimum	2	2 credit of mathematics
Arkansas	Arkansas High School Diploma (Smart Core)	CCR Default w/minimum opt-out	4	(1) Algebra I or First Part and Second Part Algebra I (Grades 7-8 or 8-9); (1) Geometry or First Part and Second Part Geometry (Grades 8-9 or 9-10); (1) Algebra II; (1) Fourth Math - Choice of: Advanced Topics and Modeling in Mathematics, Algebra II, Calculus, Linear Systems and Statistics, Mathematics Applications and Algorithms, Pre-Calculus, or an AP mathematics
Arkansas	Arkansas Core Diploma (Opt-out Diploma)	Minimum	4	(1) Algebra I or its equivalent, (1) Geometry or its equivalent, all math units must build on the base of algebra and geometry knowledge and skills, a two-year algebra equivalent or a two-year geometry equivalent may each be counted as two units of the 4 unit requirement.
California	California High School Diploma	Minimum	2	2 years, including Algebra I, beginning in 2003-04. (EC 51224.5)
California	California Readiness Curriculum a-g	Opt-in: Honors/College-Prep	3	3 years of college-preparatory mathematics that include or integrate the topics covered in elementary and advanced algebra and two- and three-dimensional geometry.
Colorado	Colorado High School Diploma	CCR Mandatory (beginning with class of 2021)	0	Colorado does not have course-specific statewide graduation course requirements. However, beginning with ninth graders in fall 2017, Colorado school districts will begin implementing revised local high school graduation requirements that meet or exceed the CO Graduation Guidelines approved by the CO SBOE; align with the Colorado Academic Standards, Colorado English Language Proficiency Standards, and the Colorado Career and Technical Education standards; and must also align with the postsecondary and workforce readiness definition and description adopted by the SBOE and the CO Commission on Higher Education in 2009.
Colorado	Colorado PWR Endorsed Diploma	Local Control	4	At a minimum, courses must include Algebra I, Geometry, and Algebra II or equivalents. Also acceptable are honors, advanced placement, and/or international baccalaureate courses. It is recommended that prospective students take a mathematics course in twelfth grade. College preparatory ESL mathematics courses that include content and academic rigor comparable to other acceptable courses may satisfy requirements. Acceptable fourth unit courses include any course of the same or greater academic rigor as described above. Also acceptable are applied mathematics, accounting, and statistics. Computer science courses are acceptable if math is a prerequisite. Also acceptable are honors, advanced placement, and/or international baccalaureate courses.
Connecticut	Connecticut High School Diploma	Minimum	4	Four credits in mathematics, including algebra I, geometry and algebra II or probability and statistics
Delaware	Delaware High School Diploma	CCR Mandatory	4	The student shall complete mathematics course work that includes no less than the equivalent of the traditional requirements of Geometry, Algebra I and Algebra II courses. The student shall complete an Algebra II or Integrated Mathematics III course as one of the Mathematics credits. During the senior year the student shall maintain a credit load each semester that earns the student at least a majority of credits that could be taken that semester. A credit in Mathematics shall be earned during the senior year.
DC	District of Columbia High School Diploma	CCR Mandatory	4	Must include Algebra I, Geometry and Algebra II at a minimum
Florida	Florida 3-Year Career Preparatory Program	Opt-in: Honors/Tech-prep	4	Three credits and, beginning with students entering grade 9 in the 2010-2011 school year, four credits in mathematics, one of which must be Algebra I. Beginning with students entering grade 9 in the 2010-2011 school year, in addition to the Algebra I credit requirement, one of the four credits in mathematics must be geometry or a series of courses equivalent to geometry as approved by the State Board of Education. Beginning with students entering grade 9 in the 2010-2011 school year, the end-of-course assessment requirements under s. 1008.22(3)(c)2.a.(I) must be met in order for a student to earn the required credit in Algebra I. Beginning with students entering grade 9 in the 2011-2012 school year, the end-of-course assessment requirements under s. 1008.22(3)(c)2.a.(I) must be met in order for a student to earn the required credit in geometry. Beginning with students entering grade 9 in the 2012-2013 school year, in addition to the Algebra I and geometry credit requirements, one of the four credits in mathematics must be Algebra II or a series of courses equivalent to Algebra II as approved by the State Board of Education
Florida	Florida 3-Year College Preparatory Program	Opt-in: Honors/College-Prep	4	Three credits and, beginning with students entering grade 9 in the 2010-2011 school year, four credits in mathematics at the Algebra I level or higher from the list of courses that qualify for state university admission. Beginning with students entering grade 9 in the 2010-2011 school year, in addition to the Algebra I credit requirement, one of the four credits in mathematics must be geometry or a series of courses equivalent to geometry as approved by the State Board of Education. Beginning with students entering grade 9 in the 2010-2011 school year, the end-of-course assessment requirements under s. 1008.22(3)(c)2.a.(I) must be met in order for a student to earn the required credit in Algebra I. Beginning with students entering grade 9 in the 2011-2012 school year, the end-of-course assessment requirements under s. 1008.22(3)(c)2.a.(I) must be met in order for a student to earn the required credit in geometry. Beginning with students entering grade 9 in the 2012-2013 school year, in addition to the Algebra I and geometry credit requirements, one of the four credits in mathematics must be Algebra II or a series of courses equivalent to Algebra II as approved by the State Board of Education.
Florida	Florida Standard High School Diploma	Minimum	4	A student must earn one credit in Algebra I and one credit in geometry. Industry certification courses that lead to college credit may substitute for up to two math credits.
Florida	Florida Scholar Designation Diploma	Opt-in: Honors/College-Prep	4	A student must earn one credit in Algebra I and one credit in geometry. Earn one credit in Algebra II and one credit in statistics or an equally rigorous course.
Florida	Florida High School Diploma with Merit Designation	Minimum	4	A student must earn one credit in Algebra I and one credit in geometry. Industry certification courses that lead to college credit may substitute for up to two math credits.
Georgia	Georgia High School Diploma	CCR Mandatory	4	Four units of core credit in mathematics shall be required of all students, including Mathematics I or GPS Algebra, or its equivalent and Mathematics II or GPS Geometry, or its equivalent and Mathematics III or GPS Advanced Algebra or its equivalent. Additional core courses needed to complete four credits in mathematics must be chosen from the list of GPS/CCGPS /AP/IB/dual enrollment designated courses.
Hawaii	Hawaii High School Diploma	CCR Mandatory	3	(3) credits including Algebra I (1 credit); and Geometry (1 credit) or (e.g., two-year integrated Common Core course sequence). Note: The board policy includes the following footnote: **A series of courses that satisfy the minimum learning expectations for all students as delineated in the College and Career Readiness Standards that are encompassed by the Common Core State Standards (CCSS) for Mathematics.

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Hawaii	Hawaii Board of Education Recognition Diploma (Class of 2015 is the final cohort)	Opt-in: Honors/College-Prep	4	4 credits, including Algebra I, Geometry and Algebra II or the equivalent. Must meet standard on Algebra II EOC. In lieu of the Algebra II EOC, students may also take the ACT (cut score: 22) or SAT math (cut score: 510).
Hawaii	Hawaii High School Diploma with Academic Honors	Opt-in: Honors/College-Prep	4	(3) credits including Algebra I (1 credit); and Geometry (1 credit) or (e.g., two-year integrated Common Core course sequence). The 4th credit beyond Algebra 2 must be earned via a combination of the following half-credit courses (or equivalent IB math courses): Algebra 3, Trigonometry, Analytic Geometry, Precalculus.
Hawaii	Hawaii High School Diploma with CTE Honors	Opt-in: Tech-Prep	4	(3) credits including Algebra I (1 credit); and Geometry (1 credit) or (e.g., two-year integrated Common Core course sequence)
Hawaii	Hawaii High School Diploma with STEM Honors	Opt-in: Honors/College-Prep	4	(3) credits including Algebra I (1 credit); and Geometry (1 credit) or (e.g., two-year integrated Common Core course sequence). The 4th credit beyond Algebra 2 must be earned via a combination of the following half-credit courses (or equivalent IB math courses): Algebra 3, Trigonometry, Analytic Geometry, Precalculus.
Idaho	Idaho High School Diploma	Minimum	6	For all public school students who enter high school at the 9th grade level in Fall 2009 or later, six (6) semester credits are required. For such students, secondary mathematics includes instruction in the following areas: (1) Two (2) credits of Algebra I or courses that meet the Idaho Algebra I Content Standards as approved by the State Department of Education; (2) Two (2) credits of Geometry or courses that meet the Idaho Geometry Content Standards as approved by the State Department of Education; and (3) Two (2) credits of mathematics of the student's choice. Two (2) credits of the required six (6) credits of mathematics must be taken in the last year of high school in which the student intends to graduate. For the purposes of this subsection, the last year of high school shall include the summer preceding the fall start of classes. Students who return to school during the summer or the following fall of the next year for less than a full schedule of courses due to failing to pass a course other than math are not required to retake a math course as long as they have earned six (6) credits of high school level mathematics. Students who have completed six (6) credits of math prior to the fall of their last year of high school, including at least two (2) semesters of an Advanced Placement or dual credit calculus or higher level course, are exempt from taking math during their last year of high school.
Illinois	Illinois High School Diploma	Minimum	3	3 years of mathematics, one of which must be Algebra 1 and one of which must include geometry content. The state also plans to require Algebra II/Integrated Math III content and assessment for all students before they graduate.
Indiana	Indiana Core 40 Diploma	CCR Default w/minimum opt-out	6	2 credits Algebra I, 2 credits Geometry, 2 credits Algebra II (or Integrated Math I-III). Students must take a math or quantitative reasoning course each year in high school.
Indiana	Indiana Core 40 Diploma with Academic Honors	Opt-in: Honors/College-Prep	8	2 credits Algebra I, 2 credits Geometry, 2 credits Algebra II (or Integrated Math I-III). Students must take a math or quantitative reasoning course each year in high school. Earn 2 additional Core 40 math credits.
Indiana	Indiana Core 40 Diploma with Technical Honors	Opt-in: Honors/Tech-Prep	6	2 credits Algebra I, 2 credits Geometry, 2 credits Algebra II (or Integrated Math I-III). Students must take a math or quantitative reasoning course each year in high school.
Indiana	Indiana General High School Diploma	Minimum	4	2 credits Algebra I or Integrated Math I, 2 credits any math course. General diploma students are required to earn 2 credits in a Math or Quantitative Reasoning course during their junior or senior year. QR courses do not count as math credits.
Iowa	Iowa High School Diploma	Minimum	3	unspecified
Kansas	Kansas High School Diploma	Minimum	3	Three units of mathematics, including algebraic and geometric concepts
Kentucky	Kentucky High School Diploma	CCR Mandatory	3	3 credits to include Algebra I, Geometry and Algebra II (An integrated, applied, interdisciplinary, or technical or occupational course that prepares a student for a career path based on the student's Individual Learning Plan may be substituted for a traditional Algebra I, Geometry or Algebra II course on an individual student basis if the course meets the content standards in the Kentucky Core Academic Standards (KCAS). Pre-Algebra shall not be counted as one of the three required Mathematics credits for high school graduation but may be counted as an elective.) Mathematics shall be taken each year of high school.*
Louisiana	Louisiana Core 4 Diploma	Opt-in: Honors/College-Prep	4	4 units - Algebra I, Applied Algebra I or Algebra I-Pt. 2; Geometry or Applied Geometry; Algebra II; and the remaining unit shall come from the following: Financial Mathematics, Math Essentials, Advanced Math - Pre-Calculus, Advanced Math - Functions and Statistics, Pre-Calculus, Calculus, Probability and Statistics, Discrete Mathematics, AP Calculus BC, or a locally initiated elective approved by BESE as a math substitute.
Louisiana	Louisiana Basic Core Diploma	Minimum (Class of 2017 last class eligible to earn Basic Core Diploma)	4	4 units - 1) all students must complete one of the following: Algebra I (1 unit); Applied Algebra (1 unit); or Algebra I-Pt. 1 and Algebra I-Pt. 2 (2 units); 2) Geometry or Applied Geometry; 3) the remaining unit(s) shall come from the following: Algebra II; Financial Mathematics; Math Essentials; Advanced Math - Pre-Calculus; Advanced Math - Functions and Statistics; Pre-Calculus; Calculus; Probability and Statistics; Discrete Mathematics; or a locally initiated elective approved by BESE as a math substitute.
Louisiana	Louisiana Career Diploma	Minimum	4	Algebra I (1 unit); Applied Algebra I (1 unit), or Algebra I-Pt. 1 and Algebra I-Pt. 2 (2 units); The remaining units shall come from the following: Geometry or Applied Geometry; Technical Math; Medical Math; Applications in Statistics and Probability; Financial Math; Math Essentials; Algebra II; Advanced Math - Pre-Calculus; Discrete Mathematics; or course(s) developed by the LEA and approved by BESE.
Louisiana	Louisiana Jump Start TOPS Tech Pathway (Career Diploma)	Minimum (2014-2015 Entering 9th Graders)	4	1 Unit Algebra I, Algebra 1, Part One and Algebra 1, Part Two (Integrated Mathematics I, Integrated Mathematics II, and Integrated Mathematics III may be substituted for the Algebra I, Geometry, and Algebra II sequence); 3 units from the following: Geometry, Algebra II, Math Essentials, Financial Literacy (formerly Financial Math), Business Math, Algebra III, Algebra III: DE - CMAT 1213 College Algebra, Advanced Math - Functions and Statistics, Probability and Statistics, Probability and Statistics: AP® Statistics, Probability and Statistics: DE- CMAT 1303 Introductory Statistics, Advanced Math - Pre-Calculus, Adv Math-Pre Calc: DE- CMAT 1223 Trigonometry, Pre-Calculus, Pre-Calculus: IB® Math Studies (Math Methods), Pre-Calculus: DE - CMAT 1233 Algebra and Trigonometry, Calculus, Calculus I: Gifted and Talented, Calculus II: Gifted and Talented, Calculus: AP® Calculus AB, Calculus: AP® Calculus BC, Calculus: IB® Mathematics SL, Calculus: IB® Mathematics HL, Calculus: DE - CMAT 2103 Applied Calculus, Calculus: DE - CMAT2113-5 Calculus I, Calculus: DE - CMAT 2123-5 Calculus II, or comparable Louisiana Technical College courses offered by Jump Start regional .
Louisiana	Louisiana TOPS University Pathway Diploma	Opt-in: Honors/College-Prep (2014-2015 Entering 9th Graders)	4	1 unit Algebra I; 1 unit Geometry; 1 unit Algebra II (Integrated Mathematics I, Integrated Mathematics II, and Integrated Mathematics III may be substituted for the Algebra I, Geometry, and Algebra II sequence); and 1 unit from the following: Algebra III, Algebra III: DE - CMAT 1213 College Algebra, Advanced Math - Functions and Statistics, Probability and Statistics, Probability and Statistics: AP® Statistics, Probability and Statistics: DE- CMAT 1303 Introductory Statistics, Advanced Math - Pre-Calculus, Adv Math-Pre Calc: DE- CMAT 1223 Trigonometry, Pre-Calculus, Pre-Calculus: IB® Math Studies (Math Methods), Pre-Calculus: DE - CMAT 1233 Algebra and Trigonometry, Calculus, Calculus I: Gifted and Talented, Calculus II: Gifted and Talented, Calculus: AP® Calculus AB, Calculus: AP® Calculus BC, Calculus: IB® Mathematics SL, Calculus: IB® Mathematics HL, Calculus: DE - CMAT 2103 AP®plied Calculus, Calculus: DE - CMAT2113-5 Calculus I and Calculus: DE - CMAT 2123-5 Calculus II.
Maine	Maine High School Diploma	CCR Mandatory (beginning with class of 2020)	Proficiency @ std lvl	Proficiency-based diploma standards: Demonstrate that the student engaged in educational experiences relating to mathematics in each year of the student's secondary schooling. Demonstrate proficiency in meeting state standards in all content areas of the system of learning results established under section 6209.
Maryland	Maryland High School Diploma	Minimum	4	3 credits - 1 in Algebra/Data Analysis; 1 in Geometry; and 1 additional mathematics credit 4 credits beginning with the class of 2018
Maryland	University System of Maryland Course Requirements	Opt-in: Honors/College-Prep	3	At least three years of Mathematics including Algebra I or Applied Math I & II, Formal Logic or Geometry and Algebra II. A fourth year of math is strongly recommended. As a matter of fact, University of Maryland College Park requires a fourth year of non-trivial Algebra. (Examples: statistics, trigonometry, pre-calculus, calculus or college algebra.)
Massachusetts	Massachusetts High School Diploma	Local Control	0	Local Control

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State	Diploma Name	Diploma/Course of Study classification	Math Units	Math Courses
Massachusetts	Massachusetts MassCore course of study	Opt-in: Honors/College-Prep	4	(1) Algebra II or the Integrated Math equivalent
Michigan	Michigan Merit Curriculum	CCR Default w/personal modification	4	Algebra I, Geometry, Algebra II, one math course in final year of high school. Under HB 4465, a student may complete Algebra II over 2 years with 2 credits awarded or over 1.5 years with 1.5 credits awarded. A pupil also may partially or fully fulfill the Algebra II requirement by completing a department-approved formal career and technical education program or curriculum, such as a program or curriculum in electronics, machining, construction, welding, engineering, computer science, or renewable energy, and in that program or curriculum successfully completing the same content as the Algebra II benchmarks assessed on the department prescribed state high school assessment, as determined by the department. The DOE shall post on its website and submit to the senate and house standing committees on education guidelines for implementation. Each pupil must successfully complete at least 1 mathematics course during his or her final year of high school enrollment. The bill is now Public Act 208 of 2014.
Minnesota	Minnesota High School Diploma	CCR Mandatory	3	3 credits of mathematics, including algebra, geometry, statistics and probability sufficient to satisfy the standards. Students in the graduating class of 2015 and beyond must complete an algebra II credit or its equivalent as part of the 3-credit requirement. In addition to the high school credits, students in the graduating class of 2015 and beyond must also complete an algebra I credit by the end of eighth grade.
Mississippi	Mississippi High School Diploma	CCR Default w/personal modification	4	Algebra I. Compensatory Mathematics, Introduction to Engineering, and any developmental mathematics course may not be included in the four mathematics courses required for graduation; however, these courses may be included in the 5 general electives required for graduation. Effective with the eighth graders of 2008-2009, Pre-Algebra and Transition to Algebra may not be taken after a student completes Algebra I. Beginning school year 2007-2008 for all entering eighth graders, at least two of the four required mathematics courses must be higher than Algebra I. Effective with ninth graders of 2010-2011, Survey of Mathematical Topics may not be included in the two math courses higher than Algebra I. The allowable mathematics courses that can be taken which are higher than Algebra I are: Geometry, Algebra II, Advanced Algebra, Trigonometry, Pre-Calculus, Calculus, AP Calculus AB, AP Calculus BC, Discrete Mathematics, Statistics, and AP Statistics. MYP Geometry, MYP Algebra II, IB-DP Mathematics I, IB-DP Mathematics II, IB-DP Mathematical Studies I, IB-DP Mathematical Studies II are allowable mathematics courses higher than Algebra I for IB students. One of the four required mathematics units may be in Drafting if the student completes the 2-course sequence for Drafting I & II. One of the four required mathematics units may be in Survey of Mathematical Topics; however this course does not meet the mathematics requirement for admission to institutions of higher learning. Effective with the eighth graders of 2004-2005, Pre-Algebra, Transition to Algebra, and Algebra I, may be taken in the eighth grade for Carnegie unit credit. Effective with the eighth graders of 2008-2009, Geometry may be taken in the eighth grade for Carnegie unit credit. Effective with the seventh graders of 2012-13, Pre Algebra, Algebra I, Biology I, ICT II (Information & Communication Technology), and First Year Foreign Language may be taken in the seventh grade for Carnegie unit credit provided the course content is the same as the high school course. Effective with the eighth graders of 2012-13, second year Foreign Language and STEM (Science, Technology, Engineering & Mathematics) may be taken in the eighth grade for Carnegie unit credit provided the course content is the same as the high school course
Mississippi	Mississippi Opt-out Diploma	Minimum	4	Algebra I. Compensatory Mathematics and any developmental mathematics course may not be included in the four mathematics courses required for graduation; however, these courses may be included in the 4½ general electives required for graduation. Beginning school year 2004-2005 for all entering eighth graders, at least one of the four required mathematics courses must be higher than Algebra I. The allowable mathematics courses that can be taken which are higher than Algebra I are: Geometry, Algebra II, Advanced Algebra, Trigonometry, Pre-Calculus, Calculus, AP Calculus AB, AP Calculus BC, Discrete Mathematics, Statistics, and AP Statistics. One of the four required mathematics units may be in Drafting if the student completes the 2-course sequence for Drafting I & II. Effective with the eighth graders of 2004-2005, Pre-Algebra, Transition to Algebra, and Algebra I, may be taken in the eighth grade for Carnegie unit credit. MYP Geometry, MYP Algebra II, IB-DP Mathematics I, IB-DP Mathematics II, IB-DP Mathematical Studies I, IB-DP Mathematical Studies II are allowable mathematics courses higher than Algebra I for IB students.
Mississippi	Mississippi Career Pathway Option Diploma	Minimum	3	Algebra I. Compensatory Mathematics may not be included in the three mathematics courses required for graduation. Effective with eighth graders of 2008-2009, Pre-Algebra and Transition to Algebra may not be taken after a student completes Algebra I. For students pursuing the Career Pathway Option, at least one of the required mathematics courses must be above Algebra I and selected from the student's program of study. The allowable mathematics courses that can be taken which are higher than Algebra I are: Geometry, Algebra II, Survey of Mathematical Topics, Advanced Algebra, Trigonometry, Pre-Calculus, Calculus, AP Calculus AB, AP Calculus BC, Discrete Mathematics, Statistics, and AP Statistics, or any college-level dual credit courses. Effective with the eighth graders of 2004-2005, Pre-Algebra, Transition to Algebra, and Algebra I, may be taken in the eighth grade for Carnegie unit credit. Effective with eighth graders of 2008-2009, Geometry may be taken in the eighth grade for Carnegie unit credit.
Mississippi	Mississippi Early Exit Diploma Option	Minimum	3	Algebra I (Equivalent course)
Missouri	Missouri High School Diploma	Minimum	3	Missouri high school graduates must earn at least three units selected to ensure that students have strong problem-solving skills and a foundation in the mathematical concepts of number sense, geometry and spatial sense, measurement, data analysis, statistics, patterns and relationships, algebraic thinking, mathematical systems, number theory, and discrete topics. Interpretative Notes: Courses commonly named "computer math," the content of which is computer literacy, introductory computer programming, and nominal mathematics applications on computers may not be counted toward meeting the minimum requirements in mathematics.
Missouri	Missouri CBHE High School Core Curriculum Requirement	Opt-in: Honors/College-Prep	4	Mathematics coursework (4 units) emphasizes college preparatory algebra and other content of comparable or greater rigor. At least one mathematics course should be taken each year. It is particularly important that students take a mathematics course in grade 12. Students who complete algebra prior to the freshman year would be expected to complete four additional units in grades 9-12. Students who achieve a proficiency score of 3 or 4 on the Smarter Balanced grade 11 assessment must demonstrate continued study of mathematics for the score to be considered valid in the first year of college. Coursework that emphasizes pre-algebra, computer math/programming, consumer/basic math, or business math/accounting is not acceptable for the CBHE Recommended College Preparatory High School core curriculum.
Montana	Montana High School Diploma	Minimum	2	unspecified
Montana	Minimum Core College Preparatory Program and Rigorous Core College Preparatory Program	Opt-in: Honors/College-Prep	3 or 4	College Prep - 3 Years: Courses shall include Algebra I, Geometry and Algebra II (or the sequential content equivalent of theses courses). Students are encouraged to take a math course in their senior year. NOTE: In school systems where a student may take Algebra I in the 8th grade, the student must still complete 3 years of college preparatory math in high school. Rigorous Core - 4 years: In addition to the Minimum Core, a course beyond Algebra II, or Integrated Math IV (such as Trigonometry, Pre-Calculus, Calculus, Computer Math, or Integrated Math VI.) All must have grades of "C" or better.
Nebraska	Nebraska High School Diploma	CCR Mandatory	30 credit hours	Thirty credit hours of mathematics with course content that includes algebraic, geometric, data analysis, and probability concepts.

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Nevada	Nevada Standard High School Diploma	Minimum	3	unspecified
Nevada	Nevada Advanced High School Diploma	Opt-in: Honors/College-Prep	4	unspecified
New Hampshire	New Hampshire Standard High School Diploma	Minimum	3	Mathematics that encompasses algebra, mathematical modeling, statistics and probability, complex applications of measurement, applied geometry, graphical presentation and interpretation, statistics and data analysis
New Jersey	New Jersey Standard High School Diploma	Minimum	3	At least 15 credits in mathematics, including Algebra I or the content equivalent effective with the 2008-2009 grade nine class; geometry or the content equivalent effective with the 2010-2011 grade nine class; and a third year of mathematics that builds on the concepts and skills of algebra and geometry and that prepares students for college and 21st century careers effective with the 2012-13 grade nine class. The state also plans to require Algebra II/Integrated Math III content and assessment for all students before they graduate.
New Mexico	New Mexico Diploma of Excellence	CCR Default w/personal modification	4	4 units of math with one unit equal to or greater than Algebra 2. 2013 and after: Four units in mathematics, of which one shall be the equivalent to or higher than the level of algebra 2, unless the parent submitted written, signed permission for the student to complete a lesser mathematics unit.
New York	New York Regents Diploma	Minimum	3	3 units of credit and a commencement level Regents examination in mathematics designated by the commissioner or an approved alternative pursuant to section 100.2(f) of this Part.
New York	New York Regents Diploma with Advanced Designation	Opt-in: Honors/College-Prep and Honors/Tech-Prep	3	3 Math Regents exams with a score of 65 or better
New York	Regents Diploma (through appeal)	Minimum	0	unspecified
New York	New York Regents with Honors	Opt-in: Honors/College-Prep	3	3 units of credit and a commencement level Regents examination in mathematics designated by the commissioner or an approved alternative pursuant to section 100.2(f) of this Part.
New York	New York Regents with Advanced Designation with an annotation that denotes Mastery in Math	Opt-in: Honors/College-Prep	3	3 units of credit and a commencement level Regents examination in mathematics designated by the commissioner or an approved alternative pursuant to section 100.2(f) of this Part.
New York	New York Regents with Advanced Designation with an annotation that denotes Mastery in Science	Opt-in: Honors/College-Prep	3	3 units of credit and a commencement level Regents examination in mathematics designated by the commissioner or an approved alternative pursuant to section 100.2(f) of this Part.
New York	New York Local Diploma (through Appeal)	Minimum	3	3 units of credit and a commencement level Regents examination in mathematics designated by the commissioner or an approved alternative pursuant to section 100.2(f) of this Part.
New York	New York Regents Diploma with Advanced Designation with Honors	Opt-in: Honors/College-Prep	3	3 units of credit and a commencement level Regents examination in mathematics designated by the commissioner or an approved alternative pursuant to section 100.2(f) of this Part.
New York	Local, Regents, Regents with Advanced Designation (with or without Honors) diplomas with a Career and Technical Education Endorsement	Opt-in: Honors/College-Prep	3	3 units of credit and a commencement level Regents examination in mathematics designated by the commissioner or an approved alternative pursuant to section 100.2(f) of this Part.
North Carolina	North Carolina Future-Ready Core Course of Study	CCR Default w/personal modification	4	Algebra I, Geometry, Algebra II OR Integrated Math I, II, III. 4th Math course to be aligned with the student's post high school plans. A student, in rare instances, may be able to take an alternative math course sequence as outlined under State Board of Education policy.
North Carolina	North Carolina Future-Ready Occupational Course of Study	Minimum	3	OCS Introduction to Mathematics, OCS Algebra I, OCS Financial Management.
North Carolina	North Carolina Future-Ready Core Course of Study with Career Endorsement	Opt-in: Honors/Tech-Prep	4	Algebra I, Geometry, Algebra II or Integrated Math I, II, III and a fourth mathematics course aligned with the student's post-secondary plans.
North Carolina	North Carolina Future-Ready Core Course of Study with College Endorsement (Option 1)	Opt-in: Honors/College-Prep	4	Algebra I, Geometry, Algebra II or Integrated Math I, II, III and a fourth mathematics course aligned with the student's post-secondary plans.
North Carolina	North Carolina Future-Ready Core Course of Student with College/UNC Endorsement (Option 2)	Opt-in: Honors/College-Prep	4	Algebra I, Geometry, Algebra II or Integrated Math I, II, III and a fourth mathematics course that meets the minimum admission requirements for UNC universities which includes a mathematics course with either Algebra II or Integrated Mathematics III as a pre-requisite
North Carolina	North Carolina Academic Scholars Endorsement	Opt-in: Honors/College-Prep	4	Mathematics (should include Algebra I, Algebra II, Geometry, and a higher level math course with Algebra II as a prerequisite OR Integrated Mathematics I, II, III and a higher level mathematics course with Integrated Mathematics III as prerequisite)
North Dakota	North Dakota Standard High School Diploma	Minimum	3	unspecified
Ohio	Ohio High School Diploma	CCR Default w/minimum opt-out	4	Four units, which shall include one unit of algebra II or the equivalent of algebra II
Ohio	Ohio Academic Diploma with Honors	Opt-in: Honors/College-Prep	4	Earn at least four units of mathematics which shall include algebra I, algebra II, geometry, and another higher level course or a four-year sequence of courses which contains equivalent content
Ohio	Ohio Career-Technical Diploma with Honors	Opt-in: Honors/Tech-prep	4	Earn at least four units of mathematics which shall include algebra I, algebra II, geometry, and another higher level course or a four-year sequence of courses which contains equivalent content
Ohio	Ohio International Baccalaureate Diploma with Honors	Opt-in: Honors/College-Prep	4	Earn four units of mathematics including algebra I, algebra II, geometry, and another higher level course or complete a four-year sequence of courses that contains equivalent content
Oklahoma	Oklahoma College Preparatory/Work Ready Curriculum Standards Diploma	CCR Default w/minimum opt-out	3	3 units, to consist of 1 unit of Algebra I, and 2 units from the following mathematics electives - Algebra II or Geometry (which are required to qualify for the diploma of honor as provided for in Section 11-103.2 of this title), Trigonometry, Math Analysis or Precalculus, Calculus, Statistics and/or Probability, Mathematics of Finance, Applied Mathematics I and II, or Computer Science. Also, AP Statistics or other mathematics course approved for college admission requirements. Provided, credit may be granted for Applied Mathematics I and II and Computer Science whether taught at the comprehensive high school or at a vocational-technical school. Beginning with those entering the 9th grade in the 2008-09 school year, all students must take 3 units of Mathematics in Grades 9-12 in addition to any of the following courses taken prior to Grade 9.
Oklahoma	Oklahoma Core Curriculum Standards Diploma	Minimum	3	1 Algebra I or Algebra I taught in a contextual methodology and 2 which may include, but are not limited to the following courses: Algebra II, Geometry or Geometry taught in a contextual methodology, Trigonometry, Math Analysis or Precalculus, Calculus, Statistics and/or Probability, Computer Science I, Computer Science II, Mathematics of Finance±, Intermediate Algebra±; contextual mathematics courses which enhance technology preparation whether taught at a (1) comprehensive high school, or (2) technology center school when taken in the eleventh or twelfth grade, taught by a certified teacher, and approved by the State Board of Education and the independent district board of education; mathematics courses taught at a technology center school by a teacher certified in the secondary subject area when taken in the eleventh or twelfth grade upon approval of the State Board of Education and the independent district board of education; or other mathematics courses with content and/or rigor equal to or above Algebra I.

State Graduation Requirements for Math

State	Diploma Name	Diploma/Course of Study classification	Math Units	Math Courses
Oregon	The Oregon Diploma	Minimum	3	Algebra I and above. Applied and integrated courses aligned to standards can meet credit requirements
Pennsylvania	Pennsylvania High School Diploma	Minimum	3	unspecified
Rhode Island	Rhode Island High School Diploma	Minimum	4	Three mathematics courses and one math-related course
South Carolina	South Carolina High School Diploma	Minimum	4	unspecified
South Dakota	South Dakota High School Diploma	CCR Default w/personal modification	3	Three units of mathematics, must include: 1) Algebra I - 1 unit; 2) Algebra II - 1 unit; 3) Geometry - 1 unit. With school and parent/guardian approval, a student may be excused from this course in favor of a more appropriate course. A student may be excused from Algebra II or Geometry, but not both. A student is still required to take three units of Math. If a student is excused from Chemistry or Physics, the student must still take three units of Lab Science.
Tennessee	Tennessee High School Diploma	CCR Mandatory	4	4 credits, including Algebra I, II, Geometry and a fourth higher level math course. (Students must be enrolled in a mathematics course each school year.)
Texas	Texas Minimum High School Program	Minimum (Only available for students who entered grade 9 before the 2014-2015 school year)	3	Algebra I, Geometry, SBOE approved math course
Texas	Texas Recommended High School Program	Opt-in: Honors/College-Prep (Only available for students who entered grade 9 before the 2014-2015 school year)	4	Algebra I, Algebra II, Geometry, an additional math credit
Texas	Texas Distinguished Achievement Program	Opt-in: Honors/College-Prep (Only available for students who entered grade 9 before the 2014-2015 school year)	4	Algebra I, Algebra II, Geometry, an additional math credit
Texas	Texas Foundation High School Program	Minimum	3	Algebra I, Geometry, an advanced math course. The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses or a credit selected from the courses listed in subparagraph B of this paragraph: Mathematical Models with Applications; Mathematical Applications in Agriculture, Food, and Natural Resources; Digital Electronics; and Robotics Programming and Design. The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses: Algebra II, Precalculus, Advanced Quantitative Reasoning; Independent Study in Mathematics; Discrete Mathematics for Problem Solving; Algebraic Reasoning, Statistics, AP Statistics, AP Calculus AB, AP Calculus BC, AP Computer Science, IB Mathematical Studies Standard Level, IB Mathematics Standard Level, IB Mathematics Higher Level; IB Further Mathematics Higher Level, Engineering Mathematics, Statistics and Risk Management; Discrete Mathematics for Computer Science; pursuant to TEC, after the successful completion of Algebra II, 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 TEA shall maintain a current list of courses offered under this subparagraph; and after the successful completion of Algebra I and Geometry, a locally developed mathematics course or other activity, including an apprenticeship or training hours needed to obtain an industry-recognized credential or certificate that is developed pursuant to the TEC.
Texas	Texas Foundation High School Program with Distinguished Level of Achievement	Opt-in: Honors/College-Prep	4	Four credits in mathematics to include Algebra II. Algebra I, Geometry, an advanced math course. The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses or a credit selected from the courses listed in subparagraph B of this paragraph: Mathematical Models with Applications; Mathematical Applications in Agriculture, Food, and Natural Resources; Digital Electronics; and Robotics Programming and Design. The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses: Algebra II, Precalculus, Advanced Quantitative Reasoning; Independent Study in Mathematics; Discrete Mathematics for Problem Solving; Algebraic Reasoning, Statistics, AP Statistics, AP Calculus AB, AP Calculus BC, AP Computer Science, IB Mathematical Studies Standard Level, IB Mathematics Standard Level, IB Mathematics Higher Level; IB Further Mathematics Higher Level, Engineering Mathematics, Statistics and Risk Management; Discrete Mathematics for Computer Science; pursuant to TEC, after the successful completion of Algebra II, 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 TEA shall maintain a current list of courses offered under this subparagraph; and after the successful completion of Algebra I and Geometry, a locally developed mathematics course or other activity, including an apprenticeship or training hours needed to obtain an industry-recognized credential or certificate that is developed pursuant to the TEC.

State Graduation Requirements for Math

State	Diploma Name	Diploma/Course of Study classification	Math Units	Math Courses
Texas	Texas High School Diploma with STEM Endorsement	Opt-in: Honors/College-Prep	4	<p>A student may earn a STEM endorsement by completing the requirements including Algebra II.</p> <p>Algebra I, Geometry, an advanced math course. The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses or a credit selected from the courses listed in subparagraph B of this paragraph: Mathematical Models with Applications; Mathematical Applications in Agriculture, Food, and Natural Resources; Digital Electronics; and Robotics Programming and Design. The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses: Algebra II, Precalculus, Advanced Quantitative Reasoning; Independent Study in Mathematics; Discrete Mathematics for Problem Solving; Algebraic Reasoning, Statistics, AP Statistics, AP Calculus AB, AP Calculus BC, AP Computer Science, IB Mathematical Studies Standard Level, IB Mathematics Standard Level, IB Mathematics Higher Level; IB Further Mathematics Higher Level, Engineering Mathematics, Statistics and Risk Management; Discrete Mathematics for Computer Science; pursuant to TEC, after the successful completion of Algebra II, 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 TEA shall maintain a current list of courses offered under this subparagraph; and after the successful completion of Algebra I and Geometry, a locally developed mathematics course or other activity, including an apprenticeship or training hours needed to obtain an industry-recognized credential or certificate that is developed pursuant to the TEC.</p> <p>A fourth credit in mathematics that may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses: Algebra II, Precalculus; Advanced Quantitative Reasoning, Independent Study in Mathematics; Discrete Mathematics for Problem Solving; Algebraic Reasoning; Statistics; AP Statistics; AP Calculus AB; AP Calculus BC; AP Computer Science; IB Mathematics Studies Standard level; IB Mathematics Standard Level; IB Mathematics Higher Level; IB Further Mathematics Higher Level; Engineering Mathematics; Statistics and Risk Management; Discrete Mathematics for Computer Science; pursuant to TEC, after the successful completion of Algebra II, 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 TEA shall maintain a current list of courses offered under this subparagraph; after the successful completion of Algebra I and Geometry, a locally developed mathematics course or other activity, including an apprenticeship or training hours needed to obtain an industry- recognized credential or certificate that is developed pursuant to the TEC; and Mathematical Models with Applications, if credit is earned prior to September 1, 2015 or September 1 or a subsequent year in which either of the courses listed in subparagraph (F) or (G) of this paragraph has been developed and approved by the SBOE , whichever is later.</p>
Texas	Texas High School Diploma with Business and Industry Endorsement	Minimum	3	<p>Algebra I, Geometry, an advanced math course. The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses or a credit selected from the courses listed in subparagraph B of this paragraph: Mathematical Models with Applications; Mathematical Applications in Agriculture, Food, and Natural Resources; Digital Electronics; and Robotics Programming and Design. The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses: Algebra II, Precalculus, Advanced Quantitative Reasoning; Independent Study in Mathematics; Discrete Mathematics for Problem Solving; Algebraic Reasoning, Statistics, AP Statistics, AP Calculus AB, AP Calculus BC, AP Computer Science, IB Mathematical Studies Standard Level, IB Mathematics Standard Level, IB Mathematics Higher Level; IB Further Mathematics Higher Level, Engineering Mathematics, Statistics and Risk Management; Discrete Mathematics for Computer Science; pursuant to TEC, after the successful completion of Algebra II, 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 TEA shall maintain a current list of courses offered under this subparagraph; and after the successful completion of Algebra I and Geometry, a locally developed mathematics course or other activity, including an apprenticeship or training hours needed to obtain an industry-recognized credential or certificate that is developed pursuant to the TEC.</p>
Texas	Texas High School Diploma with Public Services Endorsement	Minimum	3	<p>Algebra I, Geometry, an advanced math course. The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses or a credit selected from the courses listed in subparagraph B of this paragraph: Mathematical Models with Applications; Mathematical Applications in Agriculture, Food, and Natural Resources; Digital Electronics; and Robotics Programming and Design. The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses: Algebra II, Precalculus, Advanced Quantitative Reasoning; Independent Study in Mathematics; Discrete Mathematics for Problem Solving; Algebraic Reasoning, Statistics, AP Statistics, AP Calculus AB, AP Calculus BC, AP Computer Science, IB Mathematical Studies Standard Level, IB Mathematics Standard Level, IB Mathematics Higher Level; IB Further Mathematics Higher Level, Engineering Mathematics, Statistics and Risk Management; Discrete Mathematics for Computer Science; pursuant to TEC, after the successful completion of Algebra II, 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 TEA shall maintain a current list of courses offered under this subparagraph; and after the successful completion of Algebra I and Geometry, a locally developed mathematics course or other activity, including an apprenticeship or training hours needed to obtain an industry-recognized credential or certificate that is developed pursuant to the TEC.</p>
Texas	Texas High School Diploma with Arts and Humanities Endorsement	Minimum	3	<p>Algebra I, Geometry, an advanced math course. The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses or a credit selected from the courses listed in subparagraph B of this paragraph: Mathematical Models with Applications; Mathematical Applications in Agriculture, Food, and Natural Resources; Digital Electronics; and Robotics Programming and Design. The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses: Algebra II, Precalculus, Advanced Quantitative Reasoning; Independent Study in Mathematics; Discrete Mathematics for Problem Solving; Algebraic Reasoning, Statistics, AP Statistics, AP Calculus AB, AP Calculus BC, AP Computer Science, IB Mathematical Studies Standard Level, IB Mathematics Standard Level, IB Mathematics Higher Level; IB Further Mathematics Higher Level, Engineering Mathematics, Statistics and Risk Management; Discrete Mathematics for Computer Science; pursuant to TEC, after the successful completion of Algebra II, 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 TEA shall maintain a current list of courses offered under this subparagraph; and after the successful completion of Algebra I and Geometry, a locally developed mathematics course or other activity, including an apprenticeship or training hours needed to obtain an industry-recognized credential or certificate that is developed pursuant to the TEC.</p>

State Graduation Requirements for Math

State	Diploma Name	Diploma/Course of Study classification	Math Units	Math Courses
Texas	Texas High School Diploma with Multidisciplinary Studies Endorsement	Minimum	3	Algebra I, Geometry, an advanced math course. The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses or a credit selected from the courses listed in subparagraph B of this paragraph: Mathematical Models with Applications; Mathematical Applications in Agriculture, Food, and Natural Resources; Digital Electronics; and Robotics Programming and Design. The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses: Algebra II, Precalculus, Advanced Quantitative Reasoning; Independent Study in Mathematics; Discrete Mathematics for Problem Solving; Algebraic Reasoning, Statistics, AP Statistics, AP Calculus AB, AP Calculus BC, AP Computer Science, IB Mathematical Studies Standard Level, IB Mathematics Standard Level, IB Mathematics Higher Level; IB Further Mathematics Higher Level, Engineering Mathematics, Statistics and Risk Management; Discrete Mathematics for Computer Science; pursuant to TEC, after the successful completion of Algebra II, 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 TEA shall maintain a current list of courses offered under this subparagraph; and after the successful completion of Algebra I and Geometry, a locally developed mathematics course or other activity, including an apprenticeship or training hours needed to obtain an industry-recognized credential or certificate that is developed pursuant to the TEC.
Texas	Texas Performance Acknowledgements (5)	Minimum	3	Algebra I, Geometry, an advanced math course. The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses or a credit selected from the courses listed in subparagraph B of this paragraph: Mathematical Models with Applications; Mathematical Applications in Agriculture, Food, and Natural Resources; Digital Electronics; and Robotics Programming and Design. The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses: Algebra II, Precalculus, Advanced Quantitative Reasoning; Independent Study in Mathematics; Discrete Mathematics for Problem Solving; Algebraic Reasoning, Statistics, AP Statistics, AP Calculus AB, AP Calculus BC, AP Computer Science, IB Mathematical Studies Standard Level, IB Mathematics Standard Level, IB Mathematics Higher Level; IB Further Mathematics Higher Level, Engineering Mathematics, Statistics and Risk Management; Discrete Mathematics for Computer Science; pursuant to TEC, after the successful completion of Algebra II, 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 TEA shall maintain a current list of courses offered under this subparagraph; and after the successful completion of Algebra I and Geometry, a locally developed mathematics course or other activity, including an apprenticeship or training hours needed to obtain an industry-recognized credential or certificate that is developed pursuant to the TEC.
Utah	Utah High School Diploma	CCR Default w/personal modification	3	Classes beginning in 2013-14: Successful completion of Secondary Mathematics I, II and III or higher. Parents may request that students replace Secondary III with a course from the Applied or Advanced approved course list. Students may opt out of Algebra II or Secondary Mathematics III with written parent/legal guardian request. If an opt out is requested, the third math credit shall come from the advanced and applied courses on the Board-approved mathematics list. 7th and 8th grade students may earn credit for a mathematics foundation course before 9th grade, consistent with the student's SEOP and if at least one of the following criteria is met: 1) the student is identified as gifted in mathematics on at least two different USOE-approved assessments; 2) the student is dual enrolled at the middle school/junior high school and the high school; 3) the student qualifies for promotion one or two grade levels above the student's age group and is place in 9th grade; 4) the student takes the USOE competency test in the summer prior to 9th grade and earns high school graduation credit for the courses. Other students who successfully complete a foundation course before ninth grade shall still earn 3.0 units of credit by taking the other foundation courses and an additional course from the advanced and applied Board- approved mathematics list consistent with the student's SEOP and the following criteria: 1) courses are within the field/discipline of mathematics with a significant portion of instruction aligned to mathematics content, principles, knowledge, and skills; 2) courses provide instruction that lead to student understanding of the nature and disposition of mathematics; 3) courses apply the fundamental concepts and skills of mathematics; 4) courses provide developmentally appropriate content; and 5) courses include the five process skills of mathematics: problem solving, reasoning, communication, connections, and representation. Students who are gifted and students who are advanced may also: 1) Take the honors courses at the appropriate level; and 2) continue taking higher level mathematics courses in sequence through grade 11, resulting in a higher level of mathematics proficiency and increased college and career readiness. A student who successfully completes a Calculus course has completed mathematics graduation requirements, regardless of the number of mathematics credits earned. Students should consider taking additional credits during their senior year that align with their postsecondary career or college expectations. Students who desire a four year college degree in a science, technology, engineering or mathematics (STEM) career area should take a calculus course.
Vermont	Vermont High School Diploma	Minimum	0	Mathematical content and practices (including numbers, operations, and the concepts of algebra and geometry by the end of grade 10)
Virginia	Virginia Standard High School Diploma	Minimum	3	Courses completed to satisfy this requirement shall include at least two different course selections from among: Algebra I; Geometry; Algebra, Functions and Data Analysis; Algebra II, or other mathematics courses above the level of Algebra II. The Board shall approve courses to satisfy this requirement.
Virginia	Virginia Advanced Studies Diploma	Opt-in: Honors/College-Prep	4	Courses completed to satisfy this requirement shall include at least three different course selections from among: Algebra I, Geometry, Algebra II, or other mathematics courses above the level of Algebra II. The Board shall approve courses to satisfy this requirement.

State Graduation Requirements for Math

State	Diploma Name	Diploma/Course of Study classification	Math Units	Math Courses
Washington	Washington Standard High School Diploma	CCR Default w/personal modification	3	<p>Unless otherwise provided for in (d) through (g) of this subsection, the three mathematics credits required under this section must include: (i) Algebra 1 or Integrated mathematics I; Geometry or integrated mathematics II; and Algebra 2 or Integrated Mathematics III. A student may elect to pursue a third credit of high school-level mathematics, other than Algebra 2 or integrated mathematics III, if all of the following requirements are met: i) The student's elective choice is based on a career oriented program of study identified in the student's high school and beyond plan that is currently being pursued by the student; ii) the student's parent(s)/guardian(s) (or designee for the student if a parent or guardian is unavailable) agree that the third credit of mathematics elected is a more appropriate course selection than algebra 2 or integrated mathematics III because it will better serve the student's education and career goals; iii) A meeting is held with the student, the parent(s)/guardian(s) (or designee for the student if a parent or guardian is unavailable), and a high school representative for the purpose of discussing the student's high school and beyond plan and advising the student of the requirements for credit bearing two- and four-year college level mathematics courses; and iv) The school has the parent(s)/guardian(s) (or designee for the student if a parent or guardian is unavailable) sign a form acknowledging that the meeting with a high school representative has occurred, the information as required was discussed, and the parent(s)/guardian(s) (or designee for the student if a parent or guardian is unavailable) agree that the third credit of mathematics elected is a more appropriate course selection given the student's education and career goals.</p> <p>Courses in (a) and (b) of this subsection may be taken currently in the following combinations: (i) Algebra 1 or integrated mathematics I may be taken concurrently with geometry or integrated mathematics II; or Geometry or integrated mathematics II may be taken concurrently with algebra 2 or integrated mathematics III or a third credit of mathematics to the extent authorized in (b) of this subsection.</p> <p>Equivalent career and technical education (CTE) mathematics courses meeting the requirements set forth in RCW 28A.230.097 can be taken for credit instead of any of the mathematics courses set forth in (a) of this subsection if the CTE mathematics courses are recorded on the student's transcript using the equivalent academic high school department designation and course title.</p> <p>(e) A student who prior to ninth grade successfully completed algebra 1 or integrated mathematics I; and/or geometry or integrated mathematics II, but does not request high school credit for such course(s) as provided in RCW 28A.230.090, may either: (i) Repeat the course(s) for credit in high school; or (ii) Complete three credits of mathematics as follows:</p>
West Virginia	West Virginia High School Diploma	CCR Mandatory (beginning with ninth graders in 2014-15)	4	Math I; Math II; Math III STEM, or Math III LA or Math III TR; Math IV or Math IV TR or Transition Mathematics for Seniors or any other fourth course option (Chart V). An AP mathematics course may be substituted for an equivalent course or any fourth course option.
Wisconsin	Wisconsin High School Diploma	Minimum	3	The school board shall award a pupil up to one mathematics credit for successfully completing in the high school grades a course in computer sciences that the department has determined qualifies as computer sciences according to criteria established by the department. The school board shall award a pupil up to one mathematics credit for successfully completing in the high school grades a career and technical education course that the school board determines satisfies a mathematics requirement, but may not award any credit for that course if the school board awards any credit for that same course under subd. 1. d.
Wisconsin	Wisconsin Technical High School Diploma	Minimum	3	The school board shall award a pupil up to one mathematics credit for successfully completing in the high school grades a course in computer sciences that the department has determined qualifies as computer sciences according to criteria established by the department. The school board shall award a pupil up to one mathematics credit for successfully completing in the high school grades a career and technical education course that the school board determines satisfies a mathematics requirement, but may not award any credit for that course if the school board awards any credit for that same course under subd. 1. d.
Wyoming	Wyoming High School Diploma	Minimum	3	unspecified
Wyoming	Wyoming Hathaway Scholarship Honors Level	Opt-in: Honors/College-Prep	4	Students must complete four years of math to include Algebra I, Algebra II, Geometry, and an approved additional math course (consult your counselor about approved courses)
Wyoming	Wyoming Hathaway Scholarship Performance Level	Opt-in: Honors/College-Prep	4	Students must complete four years of math to include Algebra I, Algebra II, Geometry, and an approved additional math course (consult your counselor about approved courses)
Wyoming	Wyoming Hathaway Scholarship Opportunity Level	Opt-in: Honors/College-Prep	4	Students must complete four years of math to include Algebra I, Algebra II, Geometry, and an approved additional math course (consult your counselor about approved courses)
Wyoming	Wyoming Hathaway Scholarship Provisional Opportunity Level	Minimum	3	Students must meet HS graduation requirements which must include at least two years of Algebra I; and/or Algebra II; and/or Geometry