

North Carolina Mathematics Graduation Requirements

Options Charts for students who entered high school: **during the 2025-26 school year**

According to the [State Graduation Requirement Policy](#), students earn four mathematics credits which shall be either:

- a. NC Math 1, 2, and 3 and a fourth mathematics course to be aligned with the student's post high school plans.
- b. In the rare instance a principal exempts a student from the Future-Ready Core mathematics sequence, except as limited by N.C.G.S. §115C-81(b), the student will be required to pass: NC Math 1 and Math 2 plus two additional courses identified on the NC DPI Math options chart. Note: Credit shall be awarded for Math I, II, III if taken prior to the 2016-17 school year.

The following charts are provided to identify the courses that are options to fulfill the mathematics graduation requirement and that align with the student's post high school plan.

The charts include options for students who seek:

- [1. Admission into a UNC System Institution](#)
- [2. Admission into Community College or enter directly into a Career after High School](#)
- [3. Principal Exemption from the Future Ready Core Graduation Requirements](#)

Guidance to fulfill mathematics graduation requirements is also provided for students who are:

- [Identified as Learning Disabled in Math](#)
- [Following the Occupational Course of Study](#)

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1. Admission into a UNC System Institution <i>The following courses will fulfill the NC graduation requirements for mathematics and meet the UNC System Institution Minimum Course Requirements for admission. For admission into universities and colleges outside of the UNC System Institution, please check with that institution's admissions office for requirements and recommendations.</i>	Students must earn credit for: • 2109 – NC Math 1 • 2209 – NC Math 2 • 2309 – NC Math 3 And <u>1</u> credit from the following list. All courses on this list are NC College Connect eligible.
Active Courses - The following courses can be scheduled. • If the course is marked “New”, that course code is new and can be scheduled for the 2025-26 school year. • If the course is marked “Honors”, the course contains honors level material and receives a GPA bonus of 0.5. • If the course is marked “CL+”, the course is a transferable college-level course and receives a GPA bonus of 1.0.	
NC SCOS – 4th Level Math Courses • 2401 – Discrete Mathematics for Comp Sci • 2403 – Precalculus Honors • 2409 – NC Math 4	Advanced Placement Courses • 2A00 – AP Calculus AB CL+ • 2A01 – AP Calculus BC CLs + • 2A03 – AP Statistics CL + • 2A04 – AP Precalculus CL +
Community College Courses • 2C01 – MAT 143 – Quantitative Literacy • 2C02 – MAT 152 – Statistical Methods I • 2C03 – MAT 171 – Precalculus Algebra • 2C04 – MAT 172 – Precalculus Trigonometry • 2C05 – MAT 263 – Brief Calculus • 2C06 – MAT 271 – Calculus I • 2C07 – MAT 272 – Calculus II • 2C11 – MAT 252 – Statistics II • 2C12 – MAT 273 – Calculus III • 2C13 – MAT 280 – Linear Algebra • 2C14 – MAT 285 – Differential Equations • 2C15 – MAT 141 – Mathematical Concepts I • 2C16 – MAT 142 – Mathematical Concepts II • 2C18 – MAT 175 – Precalculus • 2C20 – MAT 167 – Discrete Math	International Baccalaureate Courses • 2I06 – IB Analysis and Approaches SL CL + • 2I07 – IB Analysis and Approaches HL CL + • 2I08 – IB Applications & Interpretations SL CL + • 2I09 – IB Applications & Interpretations HL CL +
	Cambridge Courses • 2V00 – CIE Mathematics AS CL + • 2V01 – CIE Mathematics A CL + • 2V02 – CIE Mathematics & Mechanics AS CL + • 2V03 – CIE Mathematics & Mechanics A CL + • 2V04 – CIE Mathematics & Probability/Statistics AS CL + • 2V05 – CIE Mathematics & Probability/Statistics A CL +
College/University Courses As college/university course codes and names vary, individual college/university courses cannot be listed. Instead, a generic course code is provided for high school scheduling. When the following course code is used, the college/university course information should replace the name of the course. This course code is typically used for CIHS/Early Colleges partnered with 4 year IHEs. • 2U00 - University Math Course (Example: Course taken from East Carolina University: 2U00 - MATH 2228 - Elementary Statistical Methods I) <i>Please note:</i> ❖ College/university courses identified as “remedial” do not earn high school math credit. ❖ Consider investigating how a course transfers to other colleges/universities prior to enrollment.	

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2. Admission into Community College or enter directly into a Career after High School <i>The following courses will fulfill the NC graduation requirements for mathematics. Students may also earn a credit in a course listed on the Admission into a UNC Institution Chart.</i>	Students must earn credit for: • 2109 – NC Math 1 • 2209 – NC Math 2 • 2309 – NC Math 3 And <u>1</u> credit from the following:
Active Courses - The following courses can be scheduled. • If the course is marked “New”, that course code is new and can be scheduled for the 2025-26 school year. • If the course is marked “Honors”, the course contains honors level material and receives a GPA bonus of 0.5. • If the course is marked “CL+”, the course is a transferable college-level course and receives a GPA bonus of 1.0.	
Additional Mathematics Courses • 2090 – Foundations of NC Math 1 • 2091 – Foundations of NC Math 2 • 2092 – Foundations of NC Math 3 • 2013 – CCRG Mathematics	Advanced Placement and International Baccalaureate Courses • 0A02 – AP Computer Science Principles CL + • 2A02 – AP Computer Science A CL + • 2I00 – IB Computer Science SL CL + • 2I01 – IB Computer Science HL CL +
CTE Single Courses that fulfill 1 of the 4 required mathematics credits for graduation • AP44 – Horticulture II Landscape Construction Honors • BA10 – Accounting I • BA20 – Accounting II Honors • CC11 – Microsoft Excel Honors • CE10 – PLTW Introduction to Engineering Design Honors • CE11 – PLTW Principles of Engineering CL + • CE13 – PLTW Digital Electronics CL + • CE14 – PLTW Civil Engineering and Architecture CL + • CE15 – PLTW Aerospace Engineering Honors • CE17 – PLTW Computer Integrated Manufacturing Honors	• CE18 – PLTW Environmental Sustainability Honors • FA32 – Apparel & Textile Production II • FH10 – Culinary Arts and Hospitality I • IC21 – Carpentry I • IC61 – Drafting I Honors • IC62 – Drafting II Architectural Honors • IM41 – Metals Manufacturing Technology I Honors • IM42 – Metals Manufacturing Technology II Honors • IV22 – Drafting II Engineering Honors
CTE Paired Courses that fulfill 1 of the 4 required mathematics credits for graduation • CD30 – Game Art and Design AND CD31 – Advanced Game Art and Design • FI21 – Interior Design I-Fundamentals AND FI23 Interior Design II-Technology Honors • IC11 – Masonry I Honors AND IC12 – Masonry II Honors • IC22 – Carpentry II Honors AND IC23 – Carpentry III Honors • IC41 – Electrical Trades I Honors AND IC42 – Electrical Trades II Honors • IM21 – Woodworking I AND IM22 – Woodworking II Honors	

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3. Principal Exemption from the Future Ready Core Graduation Requirements <i>The following courses will fulfill the NC graduation requirements for mathematics with a principal override. Students may also earn a credit in a course listed on the Admission into a UNC Institution Chart.</i>	Students must earn credit for: • 2109 – NC Math 1 • 2209 – NC Math 2 And <u>2</u> credits from the following:
Active Courses - The following courses can be scheduled. • If the course is marked “New”, that course code is new and can be scheduled for the 2025-26 school year. • If the course is marked “Honors”, the course contains honors level material and receives a GPA bonus of 0.5. • If the course is marked “CL+”, the course is a transferable college-level course and receives a GPA bonus of 1.0.	
Additional Mathematics Courses • 2020 – Introductory Mathematics • 2040 – Alternate Mathematics I • 2041 – Alternate Mathematics II • 2090 – Foundations of NC Math 1 • 2091 – Foundations of NC Math 2 • 2092 – Foundations of NC Math 3 • 2013 – CCRG Mathematics	Advanced Placement and International Baccalaureate Courses • 0A02 – AP Computer Science Principles CL + • 2A02 – AP Computer Science A CL + • 2I00 – IB Computer Science SL CL + • 2I01 – IB Computer Science HL CL +
CTE Single Courses that fulfill 1 of the 4 required mathematics credits for graduation • AP44 – Horticulture II Landscape Construction Honors • BA10 – Accounting I • BA20 – Accounting II Honors • CC11 – Microsoft Excel Honors • CE10 – PLTW Introduction to Engineering Design Honors • CE11 – PLTW Principles of Engineering CL + • CE13 – PLTW Digital Electronics CL + • CE14 – PLTW Civil Engineering and Architecture CL + • CE15 – PLTW Aerospace Engineering Honors • CE17 – PLTW Computer Integrated Manufacturing Honors	• CE18 – PLTW Environmental Sustainability Honors • FA32 – Apparel & Textile Production II • FH10 – Culinary Arts and Hospitality I • IC21 – Carpentry I • IC61 – Drafting I Honors • IC62 – Drafting II Architectural Honors • IM41 – Metals Manufacturing Technology I Honors • IM42 – Metals Manufacturing Technology II Honors • IV22 – Drafting II Engineering Honors
CTE Paired Courses that fulfill 1 of the 4 required mathematics credits for graduation • CD30 – Game Art and Design AND CD31 – Advanced Game Art and Design • FI21 – Interior Design I-Fundamentals AND FI23 Interior Design II-Technology Honors • IC11 – Masonry I Honors AND IC12 – Masonry II Honors • IC22 – Carpentry II Honors AND IC23 – Carpentry III Honors • IC41 – Electrical Trades I Honors AND IC42 – Electrical Trades II Honors • IM21 – Woodworking I AND IM22 – Woodworking II Honors	

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Students identified as Learning Disabled in Math

General Statute 115C-12(9d) states:

"The State Board shall not adopt or enforce any rules that requires Algebra I* as a graduation standard or as a requirement for a high school diploma for any student whose individualized education program (i) identifies the student as learning disabled in the area of mathematics and (ii) states that this learning disability will prevent the student from mastering Algebra I." As noted in General Statute 115C-12(9d), the individualized education program (IEP) must state that the specific learning disability (SLD) in the area of mathematics will prevent the student from mastering Algebra I (now interpreted as NC Math 1 per memo dated 12/16/13).

The IEP team decision regarding the application of this statute through documentation in the IEP could occur at different times during the academic career of a student with a SLD in the area of mathematics. For further information on the required considerations for application of this statute, please see the August 24, 2016 [memo and worksheet](https://bit.ly/SLDMath1Exemption) (<https://bit.ly/SLDMath1Exemption>).

Note: The memo and worksheet refer to General Statute 115-81b. Recent legislation relocated the content of 115-81b to 115-12(9d) without changing the text of the statute. Please continue to use the memo and worksheet as intended for students with a specific learning disability in the area of mathematics.

Students included in the category defined by NC General Statute 115C-12(9d) must complete four credits in mathematics. These students must construct a four-course mathematics sequence using any combination of the courses listed in the preceding Options Charts. Each student's course selection should be guided by his or her post-secondary goals, as defined in his/her IEP.

For complete information on application of General Statute 115C-12(9d), refer to the Students with Specific Learning Disabilities and Mathematics Sequence Exemption in the Future-Ready Course of Study memo referenced above.

The following courses remain active to provide IEP teams with additional options for students who qualify for the exemption from the entire NC Math 1, 2, and 3 sequence.

- 2020 – Introductory Mathematics
- 2040 – Alternate Mathematics I
- 2041 – Alternate Mathematics II

These math courses do not have state standards. This allows teachers to create objectives to meet the needs of students enrolled in these courses based on the student's future plans stated in the student's IEP.

*Algebra I is now interpreted as NC Math I.

Students following the Occupational Course of Study

Students who follow this sequence should be classified as Occupational Course of Study.

To meet mathematics graduation requirements*, students must earn credit for:

- 9220B – Introduction to Mathematics
- 9225B – NC Math 1
- 9222B – Financial Management
- 9265B – Employment Preparation IV Math

* Students following the OCS pathway are not required to earn credit in NC Math 2 or NC Math 3.