## Mathematics <br> Graduation Requirements for Students <br> Effective for Freshmen Entering High School in 2012-2013 and BEYOND (Policy GCS-N-004 from http://sbepolicy.dpi.state.nc.us//

Four mathematics credits* are required for graduation. A student's post-secondary school plans should help determine the student's mathematics sequence.

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Math I (2103)
    \(+\)
Math II (2201)
\(+\)
Math III (2301)
\(+\)
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a 4th mathematics course taken from one of the three columns to the right $=$
All Four Mathematics Credits for Graduation

Four math credits do not have to include a fourth level math, unt it is highly recom onded that all students be given acces to the highest levels of math

READY
 Policy on graduation requirements. The next four column ar
tended as s suidance and are subject to change based upon
 Losthight chool lievevels.

SEPTEMBER 2014

Courses accepted as the 4th Level mathematics credit for admission into UNC System institutions

NC Standard Course of Study Courses
-2400 - Adv Functions and Modeling

- 2401 - Discrete Mathematics
- 2402 - Integrated Math IV
- 2403 - Pre-Calculus
- 2408 - Essentials for College Math (SREB READY)


## Community College Courses

- 2722 - CCP-MAT172 - Precalculus Trigonometr - 2723 - CCP-MAT271 - Calculus I
-2724-CCP-MATIT1 - Precalculus Algebra
- 2 C015-MAT 143 - Quantitative Literacy
- 2 C025-MAT 152 - Statistical Methods
-2C055-MAT 203 - Brief Calculı
-2C115-MAT 252-Statistics II
- 2 C125-MAT 273 - Statistics II
- 2 C135-MAT 280 - Linear Algebr
-2C145-MAT 285 - Differential Equation
- 2 C155-MAT 141 - Mathematical Concepts I
- 2 C165-MAT 142 - Mathematical Concepts II
-2C175 - MAT 167 - Discrete Matl
AP and IB Courses
- 2501 - AP CALCULUS AB
- 2511 - AP STATISTICS
- 21008 - IB Computer Science SL
- 21018 - IB Computer Science HL
- 21028 - IB Mathematical Studies SL
- 21038 - IB Mathematics SL
- 21048 - IB Mathematics HL
- 21058 - IB Further Math HL

Due to the Curriculum Improvement Project at the NC Community College system, many courses were revised or archived. If not on this list, but on a previous math options chart and taken prior to
$2014-15$ SY, they are still acceptable. This includes lab component for many of the archived courses. Most math labs were incorporated into the revised courses listed above. Some community colleges may still require a lab before the mandatory Summer 2015 switch
community college does, then it must be taken this final $y$ year

Students Planning to Attend Other Coileges, Community College, or a Technical School**

## An

- 2407 - Probability \& Statistics (2014-15 is last yea of availability
- 2406 - AMTEM-Mindse
- Special Topics in Math (2013-14 was last year of availability)

CTE Single Courses that equal 1 full math credit

- AP Computer Science (2521)
- Accounting I (BA10)
- Accounting II (BA2O)
- Principles of Business and Finance (BF10)
- Drafting I (IC61)
- Drafting II Engineering (IV22)
- Drafting II Architectural (IC62
- Carpentry I (IC21)
- Metals Manufacturing Technology I (IM41
- Metals Manufacturing II (IM42)
- PLTW Biotechnical Engineering (TP24)
- PLTW Aerospace Engineering (TP25)
- PLTW Civil Engineering and Architecture (TP23)
- PLTW Introduction to Engineering Design (TP11)
- PLTW Computer Integrated Manufacturing (TP22)
- PLTW Principles of Engineering (TP12)
- PLTW Digital Electronics (TP21)
- PLTW Engineering Design and Development (TP31)
- Apparel \& Textile Production I (FA31
- Apparel \& Textile Production II (FA32)
- Interior Design I (FI51)
- Interior Design III (FI52)
- Culinary Arts and Hospitality II (FH22) - ProStart II (FH72)
- Principles of Technology 1 (TE21)
- Principles of Technology II (TE22
- Computer Programming I (BP10)

Computer Po
Pairs of CTE Courses that equal 1 Math CREDIT - SAS I (BP20) AND SAS II (BP22)

- Personal Finance (BF05) AND Entrepreneurship I (ME11) - Electronics I (IM31) AND Electronics II (IM32) - Masonry I (IC11) AND Masonry II (IC12) - Introduction to Culinary Arts \& Hospitality (FH2O) AND Culinary Arts \& Hospitality I (FH21)
- Game Art and Design (TS31) AND Advanced Game Ar and Design (TS32)
- Electrical Trades I(IC 41) AND Electrical Trades II (IC42) - Scientific and Technical Visualization I(TS21) AN Scientific and Technical Visualization II (TS22) - Introduction to Culinary Arts \& Hospitality (FH2O) AND ProStart ( FH 71 )
- Carpentry II (IC22) AND Carpentry III (IC23)
** Not eligible for Multiple Measures entry with NC Community
College System Students using CTE courses to moet Maty Colege System. Students using CTE courses to meet Math
credit traduation requirements (Class of 2014 \& beyond) will be required to complete math placement testing prior to enrolling
tudents Exempted by Principal fron usual sequence (SUBSTITUTION)


## MATH I AND MATH II

## Plus two additional courses from choices below:

## - 2020 - Introductory Mathematic

## - 2050 - Foundations of Math I

- 2051 - Foundations of Math II
-2052 - Foundations of Math III
- 2040 - Alternate Mathematics

2041-Alterna Matics

- Special Topics in Math

OR

- AP Computer Science (2521)
- Accounting I (BA10)
- Accounting II (BA20)
- Principles of Business and Finance (BF10)
- Drafting I (IC61)
- Drafting II Engineering (IV22)
- Drafting II Architectural (IC62)

I (IC21

- Metals Manufacturing Technology I (IM41)

Metals Manufacturing II (IM42)

- PLTW Aorechnical Engineering (TP24)
- PLTW Aerospace Engineering (TP25)
- PLIW Civil Engineering and Architecture (TP23) - PLTW Computer Integrated Manufacturing (TP22) -PLTW Princier ITP2 - PLTW Digital Electronics (TP21) -PITW Enginering Desín and Development (TP31) -- Apparel \& Textile Produ - Interior Design I (FI51)
- Culinary Arts and Hospitality II (FH22) - Culinary Arts and
- Principles of Technology I (TE21)
- Principles of Technology ( TE21) - Computer Programming ( (BP10) - Computer Programming (BP10)

Students are NOT required to complete math credits in this option in any particular order. Students may take CTE or other courses prior to or concurrently with Math and/or Math II. Additionally, studentss may also complete the Substitution sequence with two core mathematics courses
plus one additional math course from above (pink) and one CTE course Plus a pair of CTE courses from previous column (yellow) (pairs of CTE courses $=1$ math credit).

Students Identified as Learning Disabled in Math
Students included in the category defined by NC General Statute $\S 115 C-81$ (b) must complete four credits in mathematics. This legislation states that the State Board of Education shall not require Algebra I as a graduatio standard for any student with an IEP [Individualized Education Plan] that: 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.

These students should construct a four-course mathematics sequence using any combination of the courses listed in the preceding columns. Each student's course selections should be guided by his or her post-secondary goals, as defined in his/her IEP

Students Following the Occupational Course of Study

## - Introduction to Math I (9220B) AND Math I (9221B

## of the following courses

- Financial Management (9222B
- Personal Finance (BFO5)

Students who complete the sequence above should be classified IOCS. These students may also complete a CTE concentration.

