

GCS Secondary Mathematics Pathway Options							
Below are typical course sequences for taking mathematics in high school. This chart does not include all possible sequences. The bolded cell indicates the last HS course the student must complete to satisfy graduation requirements.							
Pathways	6th Grade	7th Grade	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
Section 1: Pathway Sequence Options Available to ALL							
A	Math 6	Math 7	Math 8	NC Math 1	NC Math 2	NC Math 3	NC Math 4
B	Math 6	Math 7	Math 8	NC Math 1 (Honors)	NC Math 2 (Honors)	NC Math 3 (Honors)	PreCal or MAT 171/172* and/or AP Stats
C	Accelerated 6/AI/AMM	Accelerated 7	NC Math 1	NC Math 2 (Honors)	NC Math 3 (Honors)	PreCal or MAT 171/172*	AP Calculus and/or AP Stats or IB Math
D	Accelerated 6/AI/AMM	Accelerated 7	NC Math 1	NC Math 2 (Honors)	NC Math 3 (Honors)	NC Math 4 (Honors)	MAT 143*, MAT 152*, PreCal or MAT 171/172*
E	Accelerated 6/AI/AMM	Accelerated 7	NC Math 1	NC Math 2 (Honors)	NC Math 3 (Honors)	PreCal or MAT 171/172*	MAT 271 (Calc I)* or other options
F	Accelerated 6/AI/AMM	NC Math 1 <i>*Summer Bridge to Math 1 recommended</i>	NC Math 2	NC Math 3 (Honors)	PreCal or MAT 171/172*	AP Calculus or MAT 271 (Calc I)* and/or AP Stats or IB Math	MAT 272 (Calc II)* or other options and/or AP Stats or IB Math
Section 2: Pathway Sequence Options that are possible in BLOCK schedule High Schools ONLY.							
G	Math 6	Math 7	Math 8	NC Math 1 (Honors)	NC Math 3 (Honors)	PreCal or MAT 171/172*	AP Calculus or MAT 271 (Calc I)* and/or AP Stats
H	Math 6	Math 7	Math 8	NC Math 1 (Honors)	NC Math 2 (Honors)	PreCal or MAT 171/172*	MAT 271 (Calc I)* or other options
I	Accelerated 6/AI/AMM	Accelerated 7	NC Math 1	NC Math 2 (Honors)	NC Math 3 (Honors)	PreCal or MAT 171/172*	MAT 272 (Calc II)* or other options* Other College Course Offerings
Section 3: Typical Pathways Sequence for Students Meeting Graduation Requirements but NOT Admission into UNC System							
J	Math 6	Math 7	Math 8	NC Math 1	NC Math 2	NC Math 3	CTE Course Substitution (see Options Chart links below) Including AP Computer Science Principles & AP Computer Science
* College level courses taken on a semester schedule (examples taken from NCCU Course Codes)							
While all pathways can be considered by all students, the following table provides possible pathways based on a student's post high school plan and interests.							
Post-High School Plans				Pathways to consider			
Considering a College/University and a STEM career				CE/FA/MI			
Considering a College/University and a NON-STEM career				A, B, D			
Entering a Community College or Trade Career				I			

**Reference: NCDPI's 4th Level Math Options Chart**

Find all options for 4th Level Math courses. Charts updated December 2023.

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