



Curriculum Night: Robinson HS Math

January 15, 2025

Agenda

- Course Selection process
- Course Offerings and Considerations
- Q&A

Course Selection Process

- January 15: Electives Fair
- January 16 and 17: Academic Days of Emphasis
- Students begin meeting with counselors
 - January 21: Rising 10th graders
 - February 3: Rising 12th graders
 - February 18: Rising 11th graders
- March 14: Deadline to make changes to HS course selections. After this date, changes will only be made on a space available basis.

Rising 9th Grade

Algebra 1

- Good grasp of the pre-algebra content
- Good work habits
- Willingness to stretch thinking
- Pass Pre-Algebra (Math 8) course
- A passing score on Math 8 SOL
- Students take Algebra 1 SOL

Geometry/Geometry HN

- Geometry Curriculum + Honors Extensions
- Apply Geometric concepts to a wide variety of situations
- Good/Strong work habits
- Rigorous pace (Honors)
- Willingness to stretch thinking
- Students take Geometry SOL

Standard Level or Advanced Level

Standard Level

- Focus on Skills
- More Scaffolding
- FCPS Essential and Expected Standards
- Little self study

- Rigor
- Differentiated Instruction
- Tier I, II, and III interventions

Advanced Level

- Focus on Big Ideas / Theory
- Less Scaffolding
- FCPS Essential, Expected, and Extended Standards
- May require self study

Advanced Math Courses

- As a school highly invested in the IB Program, the Robinson Math Department encourages students to find a path through the IB Curriculum. However, some AP courses are available.
- “In general, U.S. colleges and universities equally appreciate the AP and IB programs, because they show that a student has the dedication and determination needed to succeed academically.”

– Kristen Mariotti in an interview with AFSA

Advanced Math Courses Cont.

- The IB math program is a two year course that offers topics in either math applications or theory (analysis). Both have SL and HL paths and both HL courses are equally as rigorous and challenging.
- It is recommended that **Sophomores** taking an **IB course** register for **AP Statistics** in their **Junior year**.
- Multivariable Calculus and Matrix/Linear Algebra are course options, but will not be taught in person at Robinson.

Sample Math Sequences

Student **	9th Grade	10th Grade	11th Grade	12th Grade
I want to take the hardest Math offered.	Algebra 2 HN	IB Analysis	IB Analysis HL 2	MultiVar/Matrix (online)
I am nervous about taking an IB as a sophomore.	Algebra 2 HN	AP PreCalc	IB Analysis 1	IB Analysis HL
I am not interested in taking IB courses.	Geo / Geo HN*	Alg 2 /Alg 2 HN*	Trig / Disc or PreCalc	AP Statistics or AP PreCalc
My college major is unlikely to require math.	Algebra 1	Geometry	AFDA	None

- Copies of this are available with additional options.

Teacher Considerations for Recommendations

- There is no single determining factor; teachers consider:
 - Student proficiency/mastery
 - Frequency of need for second chance assessments
 - Math Virginia Standard of Learning (SOL) test scores
 - Work habits
 - Student maturity and independence
 - Student motivation, perseverance, and determination
 - Goals of the individual student

Other Considerations

- If students pass Algebra 1 (9th grade) with a D-, D or D+, consider having them repeat the course.
- Credit Recovery for Algebra 1 is available free of charge to students through FCPS if they failed their first attempt.
- Students taking Algebra 1 during 9th grade pursuing an IB Diploma should take Geometry during summer school and Algebra 2 during 10th grade.

Contact Information

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