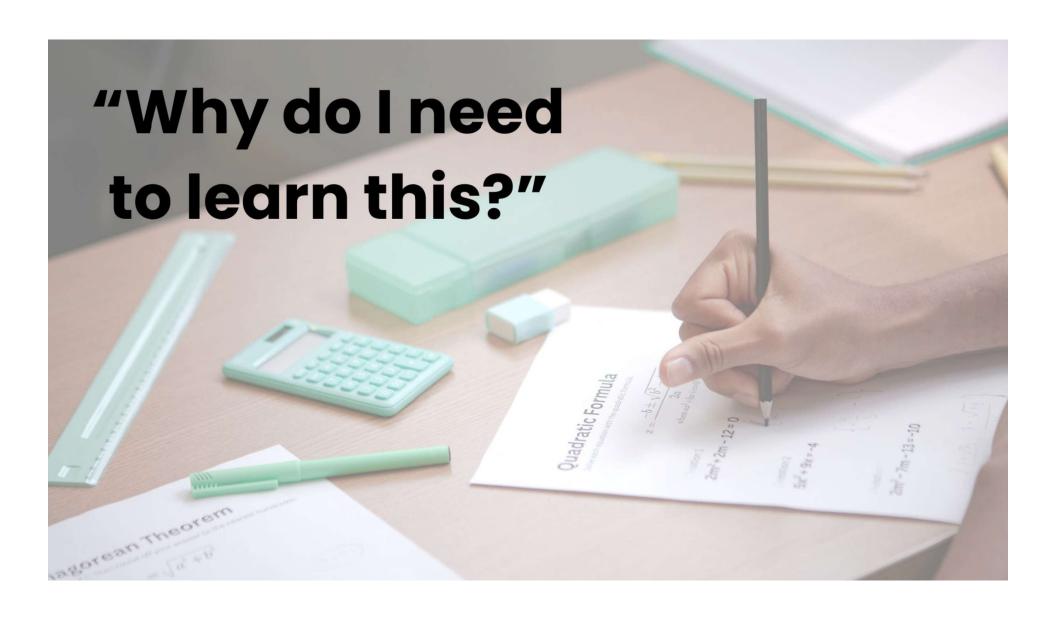


## Goals for the Evening

- Understand the secondary mathematics course options in FCPS
- Hear about considerations when selecting a course for next year





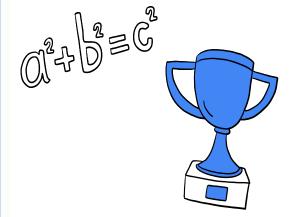


### **Career Interests**

Start with thinking about what you are passionate about.

## **Course Pathways**

Make an informed decision about which courses will be available for your student to enroll. Make a four year plan!



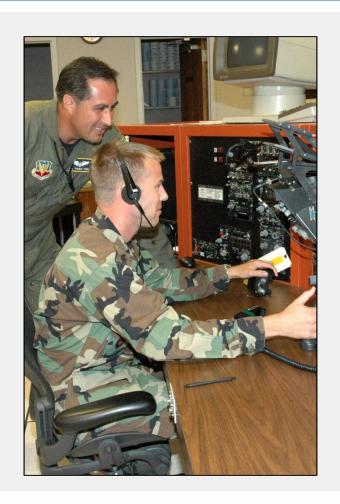
## **Graduation Requirements**

We hope our students are engaged in mathematics courses each year of their K-12 career.

### **Entrepreneur/Small Business Owner**

- Algebra 2
- Data Science
- Prob/Stats or AP Statistics





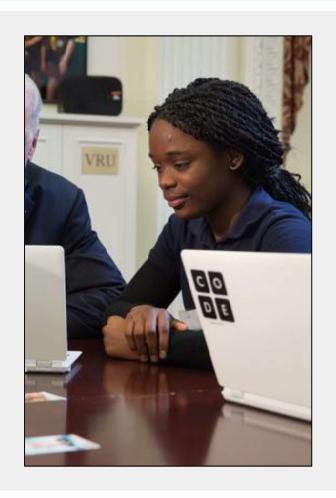
### **Aircraft Systems Engineer**

- Precalculus
- AP Calculus
- Computer Science

#### **School Counselor**

- AFDA or Algebra 2
- Prob/Stat or Discrete Math

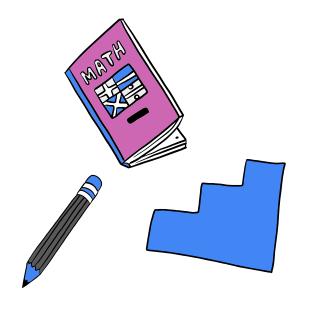




### **Al Prompt Engineer**

- Precalculus
- Data Science
- Computer Science

## Graduation Requirements for Math



### Standard Diploma

3 Math Credits

At least **two** different course selections from among:
Algebra I,
Geometry,
Algebra Functions, and
Data Analysis,
Algebra II,
or other mathematics courses approved by the board to satisfy this requirement.

#### **Advanced Diploma**

4 Math Credits

At least **three** different course selections from among: Algebra I, Geometry, Algebra II, or other mathematics courses <u>above</u> the level of Algebra II. The board shall approve courses to satisfy this requirement.

### **MATH OPTIONS GRADES 6-8**

6TH GRADE 7TH GRADE 8TH GRADE

ADVANCED MATH 6

MATH 6

Math 7 Standards of Learning MATH 7 HN

MATH 7

Pre-Algebra Standards of Learning

**ALGEBRA 1 HN\*** 

**HS** credit

PRE-ALGEBRA

ALGEBRA 1 HN

**HS** credit

**GEOMETRY HN** 

**HS** credit

**ALGEBRA 1 HN** 

**HS** credit

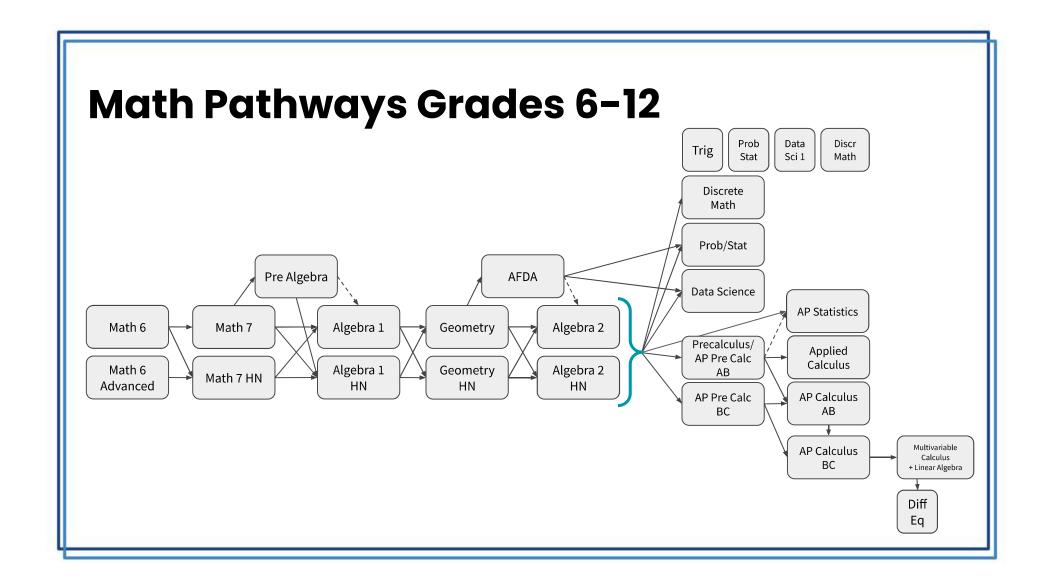
**GEOMETRY HN** 

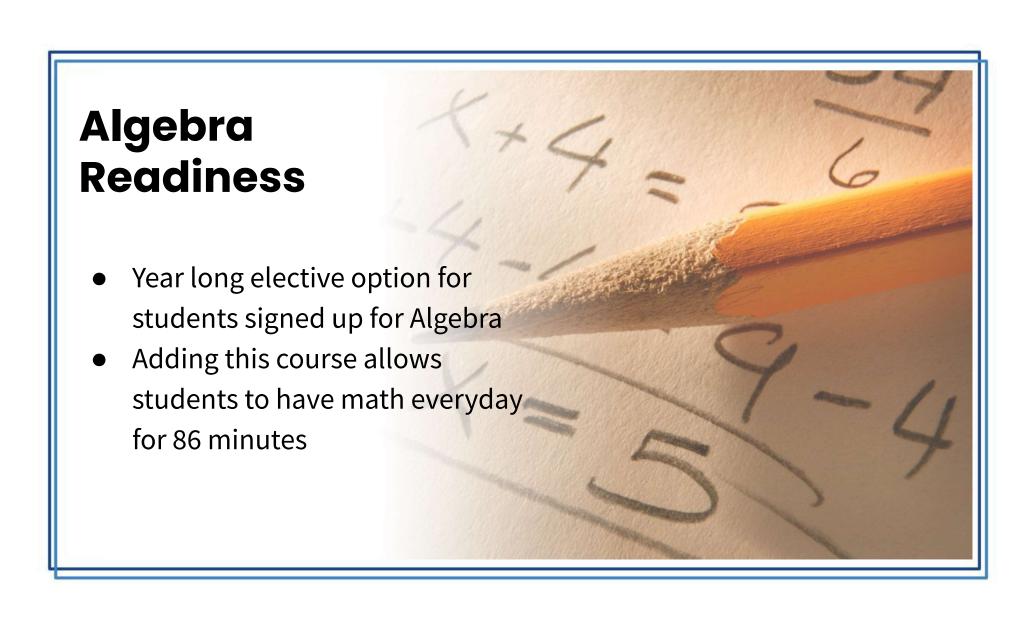
**HS** credit

**ALGEBRA 2 HN** 

**HS** credit

\*Must meet criteria to enroll





## Special Education and Multilingual Learners

If your child has an IEP and you have questions regarding placement, please contact their special education case manager, or Cooper's Special Education Department Chair, Leah Lemon.

If your child receives multilingual learner services you have questions regarding placement, please contact Cooper's ESOL department chair, Susan Butler.

### **HS Courses for Credit over the Summer**

#### FCPS Online Summer Learning

- Historically registration opens in January and goes through June 7
- Students must take the first attempt at the first course in a High School sequence in the traditional school year
- Available Math Courses
  - Algebra 1 (repeat students only)
  - Geometry and Geometry Honors
  - Algebra 2
- 6-7 asynchronous hrs and a mandatory live class each day
- In person testing for midterm, final, and SOL

Outside of FCPS Program - Prior approval required to transfer a course credit

## What mathematical habits are expected?

#### Students in honors or advanced courses should be:

- Enjoy a fast paced curriculum
- Enthusiastic for challenging math problems
- Eager to solve problems 2 or more ways
- Excited to explain thinking and ask others about their thinking
- Seeking connections between topics in math class and with other classes
- Willing to take initiative in rigorous work
- Willing to demonstrate fluency of mathematical ideas without a calculator

## What should a student consider when selecting a course?

It is okay if a student does not have their whole future planned at age 12! Instead, frame this as "What doors does my child want to leave open?"

- Long-term goals (in mathematics and other courses)
- Interest and passion in mathematics
- Current interest & comfort level with most essential content
- Mindset as a mathematics learner (fixed vs. growth mindset)

## What should a student consider when selecting a course? (continued)

#### • What mathematics behaviors do I see in myself?

- Flexibility of thinking -- Procedures ("When I see this, then I do this.") vs. Concepts
- Where is your child's focus -- Making sense of mathematics vs. the right answer
- Resilience and Perseverance

#### Balance!

- Coursework
- Extra curriculars
- Hobbies

# What's Next?

#### Academic Advising in February

- Rising 7th Grade
  - Cooper Counselors visit 6th Grade classes: to hand out the **pink course selection sheets** and explain the course selection process
  - January 30th, 5:30 PM Zoom Math Information Night encore
    - The information covered will be the same
- Rising 8th Grade
  - January 30th, 5:30 PM Zoom Math Information Night encore
    - The information covered will be the same
  - February 6th and 10th- Block 4: Lessons on the Course Selection Process
    - Students will receive their blue course selection sheets

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#### Cooper Middle School 7th Grade

Course Selection Sheet

Student Name: Student ID: Elementary School:

Step 1:	Select	Required	17th	Grade	Courses

Circleany combination of Standard and Honors courses. If Full-Time AAP eligible, circle the AAP column.

	Standard	Honors	Full-Time AAP (Formally known as Level IV)	Health & PE 7
English 7	111000	111036	FCPS Full-Time AAP eligible students, will be pre-assigned AAP	Two semesters of
US History	235500	235536		Health & PE 7 will be pre-assigned
Science	411500	411536	any combination of standard or honors courses.	in SIS.

Math Course

Math 7 Honors -311136 311100 Moth 7 Curriculum Pre-Algebra Curriculum

Algebra 1 HN: If your student is found eligible for Algebra 1 HN, Cooper MS will communicate eligibility by separate correspondence in July. At this time no rising 7th grade students can request Algebra Honors. Please select Math 7 HN.

4 semester alternates or 4 se (Rank your electives below (Rank		emester a	2 semester electives + alternates ctives below 5, 6, 7)	10	4 semester electives + 4 semester alternates (Rank your electives below 1, 2, 3, 4, 5, 6, 7, 8)			
		7	Fu	ll-Year	Electives	1 10		
World Languages (High School Credit Courses)			Rank	Rank Music  All musics course request in SIS will say "Intermediate" until director				
K	Chinese 1 - 581000				vics course request in Si nines your placement	3 will say	"Intermediate" until director	
French 1 - 511000  Japanese Immersion 1 - 591067  Great Falls ES Immersion students and					Intermediate Band	Band (Includes Percusion) - 923311		
					Intermediate Chorus - 928510			

	Spanish 1 - 551000			Intermediate Orchestra - 923810				
			Semester Elect	ives (Half-Year)				
Rank	Visual Arts & Other	Rank	Career	& Technical Ed	Rank	Literacy & Theater Arts		
	Art Foundations - 910532		Engineering 1: Design & Modeling- 846432			Journalism - 116168		
	Computers in Art (Prerequisite:		Engineering 2: Simulation & Fabrication (Preroquisite: Engineering I) - 846332			Creative Writing -110862		
	Art Foundations / - 911562	_				Media Communications -		
	3D Art Exploration (herequirite:		Coding & Innovat	ding & Innovative Tech 1 - 616032		139062		
Art Foundations) - 910632				tive Tech 2 // havequisite: Looking		Theater Arts Appreciation		
	Strategies for Success - 781932		& Innovative Yech 1) - 616062			139067		
			Family & Consumer Sciences 1 -826332			Technical Theater		

#### Step 3: Enter course requests into SIS StudentVue\*

Enter the following into SIS Student/Lue by searching the course code (not the title):

- Standard and honors core classes (if AAP eligible your core classes are preassigned in SIS)
- Electives requests
- Alternate semester elective requests

multilingual learner services, please fill the above to the best of your ability.

coper staff will make changes in SIS

sed on the team's decision

Signatures Student: Parent/Guardian:

Course request changes after June 1, 2025, must be requested via email and approved by administration. Lunderstand that the school reserves the right to change a student's schedule based on scheduling needs, course availability due to enrollment and/or other scheduling requirements.



#### Cooper Middle School 8th Grade

Course Selection Sheet

Student Name: Student ID: Elementary School:

Mathematics

This course is ONLY for students who have selected Algebra 1 and need support to gain a strong foundation in Algebra.

Appreciation - 139065

\*\*Students that receive special education or multilingual learner services, please fill the above to the best of your ability. Cooper staff will make changes in StS based on the team's decision.

#### Step 1: Select Required 8th Grade Courses\*\*

Circle any combination of Standard and Honors courses. If Full-Time AAP eligible, circle the AAP column.

7	Standard	Honors	Full-Time AAP	Health & PE 7		
English 8	112000	112036	FCPS Full-Time AAP		Two semesters of Health & PE 7 will	
Civics	235700	235736	AAP English, Civics & S required.	be pre-assigned in SIS.		
Science	412500	412536	required.			
			Circle one Ma	th Course		
Pre-Algebra 311200	Algebra 1* 313000	Algebra 1 Honors* 313036	Geometry Honors* 314336 (Prerequisite: Algebra 1 HN)	Algebra 2 Honors* 313536 (Prerequisite: Geometry HN & Algebra 1 HN)		olculus BC* 316093 e: Algebra 2 HN, Geometry a 1 HN)
			think ful	and Condit Courses	•	

Step 2: Request Electives Courses\*\* Circle one of the following and rank your electives:

	mester ernates	1, 2, 3, 4, 5, 6	or	semester elec 4 semester alte		1, 2, 3, 4, 5, 6, 7	or	4 serme	ester alternates	electives below 1, 2, 3, 4, 5, 6, 7, 1
- 5	-		_	Full	-Year E	lectives				
Rank		orld Languages School Credit Courses		Rank Visual	Litera	y, &Theater Arts	Ra	nk	Mus	sic
		1-581000	$\neg$	Advano	ced The	ater - 139568	ALC		"totarmediate" and dis	
	French 1 - 511000		コ	Adv Jo 11516		m/Yearbook -			rmediate Ban cusion) - 9233	
	Spanish	1-551000		Art Extensions -911500		ш	Inte	rmediate Cho	rus - 928510	
evel 2 tan	guages require	successful completion of le	riei1	ARLEX	ensions	-911300	11	Teste	omediate Ord	nestra - 923810
	Chinese:	2-582000	- 1				Щ.	ince	illiediate Orci	PESUIA - 923610

2 Full-year elective + Rank your | 1 Full-year elective and 2 Rank your | 4 semester electives + Rank your

	Semester Electives (Half-Year)									
Rank	Visual Arts & Other	Rank	Career & Technical Ed	Rank	Literacy & Theater Arts					
	Art Foundations - 910532		Engineering 1: Design & Modeling-846432		Journalism-116168					
	Computers in Art (Prenquisite:		Engineering 2: Simulation & Fabrication		Creative Writing - 110862					
$\overline{}$	Art Foundations/ - 911562	_	(Prorequisite: Engineering I) - 846332		Media Communications -					
	3D Art Exploration (herequisite: Art Foundations) • 910632 Strategies for Success •		Engineering 3: Advanced Design & Prototypes//herequisite: Engineering 2) - 846362		139062					
		-	Coding & Innovative Tech 1 - 616032	1	Theater Arts Appreciation					
100		-	W	_	139067					
- 5	781932		Coding & Innovative Tech 2	1	AdvancedTheater Arts					
	Foundations of Yoga for		(Prerequisite: Coding & Immunitive Tech 1) - 616062		Appreciation - 139569					
	Wellness - 720132		Family & Consumer Sciences 1 - 826332		Technical Theater					

Algebra Readiness

#### Step 3: Enter course requests into SIS StudentVue

- Enter the following into SIS StudentVue by searching the course code (not the title):

  Standard and honors core classes (if AAP eligible your core classes are preassigned in SIS)

French 2 - 512000

Spanish 2 - 552000

Japanese Immersion 2-59206

Alternate semester elective requests

Step 4: Sign

Signatures Student:

Parent/Guardian:

Course request changes after June 1, 2025, must be requested via email and approved by administration. I understand that the school reserves the right to change a student's schedule based on scheduling needs, course availability due to enrollment and/or other scheduling

