

# HONORS MATH 1

Davidson Early College High School | Room 112 | Mr. Scott Pettit

## About Your Teacher...

My name is Scott Pettit. I was born and raised in Black Mtn, NC. I graduated from Owen High School (Go Warhorses!). I went on to pursue a Bachelor's degree in Business with a concentration in Economics & Finance from Western Carolina University. I obtained my Master's in Business Administration from East Tennessee State University, in Johnson City, TN. I obtained my Master's in School Administration from High Point University. Most recently, I completed my Master's in Instructional Technology at East Carolina University. I owned a web design business for 12 years prior to entering the teaching profession.

## Class Meetings

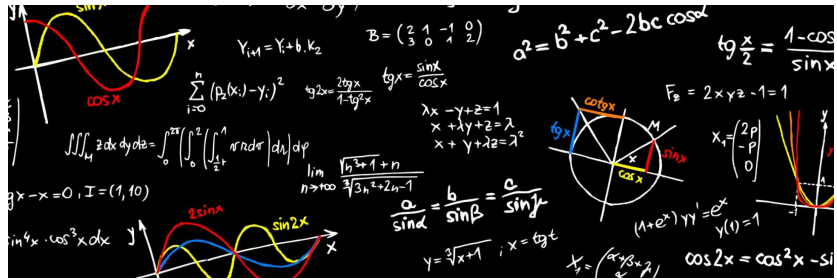
Monday - Friday 8:00-9:30  
Room 112

## Materials List

|                   |                          |
|-------------------|--------------------------|
| Notebook Paper    | Graph Paper              |
| Calculator*       | Pencils                  |
| Highlighters      | Dry Erase Markers School |
| Provided Computer |                          |

## Units of Study

|                                             |           |
|---------------------------------------------|-----------|
| Unit 1: Equations & Functions               | (2 weeks) |
| Unit 2: Linear Functions                    | (3 weeks) |
| Unit 3: Exponential Functions               | (3 weeks) |
| Unit 4: Quadratic Functions                 | (3 weeks) |
| Unit 5: Systems of Equations & Inequalities | (3 weeks) |
| Unit 6: Descriptive Statistics              | (2 weeks) |
| Unit 7: Geometry & Coordinate Plane         | (2 weeks) |



## About This Course

Honors Math 1 continues the study of the mathematical strands that students have been developing during their mathematical career: Numbers & Operations, Algebra, Functions, and Statistics & Probability. Further information can be found in the [NC Standard Course of Study for Math 1](#).

In Honors Math 1 students will extend their knowledge of the Real number system to include the Complex Number system, reason quantitatively, perform arithmetic operations, describe relationships using equations, tables, and graphs, interpret and build functions, apply geometric principals and theories, and make inferences and draw conclusions using statistical thinking and analysis.

In this course we will also incorporate the eight Mathematical Practices from the Common Core State Standards for Mathematics:

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeating reasoning.

Students will explore topics in depth, while participating in discussions, presentations and investigations on topics. Students are expected to be self-directed and reflective learners who will be asked to create questions, problem solve, and work collaboratively to gain knowledge on topics. Thoughtful and meaningful work that challenges students to demonstrate higher order and critical thinking skills will be the distinguishing feature of the Honors Math 1 experience.

## If you need help...

- See me during my Office Hours.
- Ask questions in class.
- Ask for peer help in class or ask a peer tutor.
- Use Study Groups effectively!

## How to be successful

- Complete your work
- Ask questions
- Attend class daily
- Seek out extra help

## Basic Classroom Rules

- Ask three before me
- If you need to go, go (you are responsible for anything you miss)
- Respect everyone and everything
- Embrace the productive struggle

## Contact Information

Phone: 336.242.5686 x1510

Email: [spettit@davidson.k12.nc.us](mailto:spettit@davidson.k12.nc.us)

Office: Reich 119

Office Hours: Th 9:45 - 10:45 Reich 112

T 1:00 - 2:00 Reich 101

## Support Requirements

Students making less than a "B" average must attend weekly supports until their average is a "B" or higher.

Failure to complete practice problems, quizzes and/or tests will necessitate students attend weekly support sessions until the work is made up. If the work is more than five days overdue, no credit will be given, but must still be made up.

Due to the nature of the Early College program, students will be expected to demonstrate maturity in discussions and debates, as well as respect for the thoughts and ideas of others. Classes will be free from intimidation and stereotyping so that all students can feel safe in sharing thoughts and opinions on topics.

## Calculators\*

A Texas Instrument TI-84ce Plus graphing calculator will be provided for students that do not have their own calculator. Calculators will be issued to students during the first week of class. Each student will be assigned a specific calculator for the entire semester. Students are fully responsible for their assigned calculator and any necessary obligations due to damage or loss to the calculator will follow the textbook policy outlined in the Student Handbook. If students would like to purchase their own calculator the recommendation is to purchase a TI 84ce Plus Graphing Calculator. The cost is approximately \$120.

## Grading Policy

Assignments will be divided into two basic categories: Major Works (assessments/projects) and Minor Works (practice/quizzes). Assessments are those assignments, which are designed to determine how much a student learned during the study of a segment of material. They may be tests, quizzes, projects, etc. No Major Works (assessments) grade will be dropped.

Any Major Work not made up within 5 days will be recorded as a zero. Unit tests will always be announced in advance. If a student is absent on the day of an announced assessment, they must make up the assessment on the day they return. Quizzes will be given periodically between chapter tests and may be announced or unannounced. Practice assignments are those that provide the student an opportunity to apply, discover, or expand a new skill. Practice assignments will be more frequent than assessments and will be checked for completeness. They will be done daily in and out of class. Extra credit may sometimes be offered on a unit test in the form of an extension or more challenging problem. Additional extra credit is not offered.



- A 100-90
- B 89-80
- C 79-70
- D 69-60
- F Below 60

Major Works (Assessments) 60%  
Minor Works (Practice) 40%

Students in Honors Math 1 cannot be exempted from the final exam, as it is an EOC mandated by the state of North Carolina. This exam will count 20% of the total semester grade.

## Projects:

- Unit 3: Exponential Functions - Zombie Apocalypse  
Evaluating the doubling effects of a "Zombie" virus.
- Unit 4: Quadratic Functions - Everyday Parabolas  
You encounter parabolas every day and probably never notice.

## Required Support Information

## College course support:

Academic success is an important quality of a Davidson Early College student. We want to ensure that all students are meeting their full academic potential. Students not maintaining a 75 average in their college course(s) will be required to attend Academic Supports and Office Hours. Consequences for not maintaining expected academic standings are as follows:

- 1) Students earning below a 75:
  - a) Meet with their Seminar teacher weekly
  - b) Seminar teacher will make contact with parent via email for documentation purposes
- 2) Students earning below a 70:
  - a) Meet with their Seminar teacher weekly
  - b) Required to attend 1 office hour each week (with any teacher)
  - c) Seminar teacher will make contact with parent via phone with a follow-up email for documentation purposes
  - d) Juniors and Seniors must schedule and attend tutoring in the Learning Commons
  - e) Student-led conference scheduled (after week 3 of course)
- 3) Students earning below a 65:
  - a) Meet with their Seminar teacher weekly
  - b) Students required to attend 2 office hours each week (with any teacher)
- 4) Juniors and Seniors must schedule and attend tutoring in the Learning Commons