

Welcome to Math 3! This course guide contains important information about this course and about my policies. Please read it carefully!

### **Course Description**

Math 3 students will expand their understanding of functions to include polynomial, rational, exponential, logarithmic, and trigonometric functions. They will use trigonometric functions for general triangle solving, sinusoidal modeling, and other algebraic uses. They will extend their use of number systems to include the complex numbers, and make use of sequences and series. Students will apply methods from probability and statistics to draw inferences and conclusions from data. Math 3 students will engage in mathematical practices such as making sense of problems, reasoning and constructing arguments, and using structure and regularity. They will use functions and geometry to create and critique mathematical models and solve contextual problems.

Unit 1: Polynomial functions	Ch. 1 and local materials
Unit 2: Sequences and series	Ch. 2
Unit 3: Inferential statistics	Ch. 3
Unit 4: Trigonometric functions and geometry	Ch. 4
Unit 5: Sinusoidal functions and modeling	Ch. 5
Unit 6: Complex number system	section 6.01-6.02; Math II Ch. 3C and local materials
Unit 7: Exponential and logarithmic functions	Ch. 8

Chapter references are to our textbook *Integrated CME Project Mathematics III*  
(unless otherwise noted)

### **Materials**

You will need the following materials and supplies: Notebook or three-ring binder (I recommend a three-ring binder so that you can keep your class notes and class handouts together); Lined paper and graph paper; Pencils; and a Graphing Calculator (a TI-83 or TI-84 model)

### **Textbook**

You will be issued a hard copy of our textbook *Integrated CME Project Mathematics III*. You will also soon have access to our textbook at home from the web site of the publisher Pearson: [successnetplus.com](http://successnetplus.com). You'll receive more information in class soon about e-book access. You should have a textbook with you in class each day. All students are responsible for keeping track of their textbook and will be financially responsible if it is not turned in at the end of the year. **This is true even if you choose to leave your textbook in the classroom.**

### **Homework**

Students will be assigned homework almost every night. The homework will be due the next class meeting unless another due date is explicitly stated by the teacher. Doing the homework on the night it is assigned is vital to your learning because the homework will often be the starting point for the next class. Homework assignments will be announced in class and listed (by course and block) on Ms. Trautz's website. Homework will be checked at the beginning of class on most days. Homework completion will count as a quiz grade each quarter.

## Assessments and Grading

Units will be assessed through quizzes and an end of unit test. Each quarter grade will be based on a weighted average of tests, quizzes, homework, and any other graded work. Homework and quizzes will have a designated weight as a fraction of a test. There will be a cumulative midyear exam that will count as part of the quarter grade for the quarter in which it is given. The year grade will be based on four equally weighted quarter grades (21% each) and a departmental final exam (16%).

Most problems will be graded on a 0-to-5 scale measuring the correctness of your responses and the quality of your explanations. Below is a general description of the typical meaning of each score value. These criteria may be refined or adjusted on any particular problem at the teacher's discretion, including using a traditional scale on some assignments. Questions that require only a short response may be graded using only selected point values. For example, short answer questions will often be graded 0/2/4 only, or 0/4 only.

**5: an exemplary correct solution.** The work is correct in every detail, and presented in a clear and fully-justified manner.

**4: a correct solution.** The work is generally correct, but may have weaknesses in presentation or justification, or be slightly lacking in detail.

**3: solution with minor error.** The work has at least one significant mistake or omission. Any deficiencies are relatively minor, typically things that a student would be able to fix independently once pointed out.

**2: solution with major error.** The work has at least one major error or missing step, or an accumulation of many minor errors. The deficiencies are significant enough to show a lack of mastery and perhaps a need for re-teaching and re-learning.

**1: slight progress toward a solution.** There is some correct progress in the direction of a solution, but most of the work needed for a correct solution is not present.

**0: little or no progress toward a solution.** The work contains hardly any of what would be needed in a correct solution.

average on 5-point scale	grade
4.3 and above	A+
3.80-4.29	A
3.50-3.79	A-
3.20-3.49	B+
2.80-3.19	B
2.50-2.79	B-
2.20-2.49	C+
1.80-2.19	C
1.50-1.79	C-
1.35-1.49	D+
1.15-1.34	D
1.00-1.14	D-
0.00-0.99	F

## Quiz Retakes

Each student will be permitted **one quiz retake per quarter**. Quiz retakes must be taken **within one week** of the quiz being returned to the class (if the quiz was returned on a Wednesday, students have until the following Tuesday after school to take a retake, regardless of whether your class meets on Tuesday). **Your score on the retake will be your final score on the quiz, even if your score on the retake is lower.** It is your responsibility to get the extra help you need before retaking a quiz. Retakes may be used on quizzes only, not tests.

## Absences and Tardiness

When you are absent, it is your responsibility to find out what you missed (check my website for homework and ask a classmate what happened during class), and then I will provide reasonable support to help you catch up. Following the usual practice at LHS, the time allowed for completing missed work is usually one day for each day missed. However, if there is a test, quiz, or an assignment due on the first day of your

absence, you are responsible for it on the day you return. Also, if you miss class because of a field trip, you must be prepared for the next class just as if you had been in class. If an absence is unexcused, you will receive up to a maximum of 55% credit for the work due that day, or the test/quiz administered that day, as per school policy. If you are tardy to class, please enter quietly and put your pass (if you have one) on my desk. If tardiness is a recurrent problem, you may be asked to make up time with me after school.

### **Extra Help**

If you feel confused about a topic, need some extra explanation, or just have a quick question, make the time to get extra help as soon as possible. I offer extra help at the following times:

- Everyday immediately after school until 3 pm.
- Most days before school starting around 7:20 am.

You may drop in during these times without an appointment. If I will not be available during these times, I will try to announce it in advance in class or on my website. You will get the most out of extra help if you come with a specific question. Also, note that it is often very busy near the end of the quarter or before an exam, so don't wait until the last minute!

### **Academic Integrity and Honor Code**

I expect that you adhere to the guidelines outlined in the Lexington High School Honor Code and that you maintain the highest academic integrity at all times. Unless explicitly stated by me in class, collaboration is not permitted during quizzes, or tests. You may work together with your classmates, or seek help from others, on nightly homework assignments. If you are unsure about what collaboration is permitted, then it is your responsibility to seek clarification from me.

### **Cell Phones**

Unless specifically directed otherwise, all cell phones must be turned off and kept in your backpack for the duration of class. You may use a personal ipad or similar device to access the textbook during class, however, I will revoke this privilege if I observe the device being used for non-academic purposes.

*\*This course guide may be modified with advanced notice to students.*