



SLCA SYLLABUS 2018-19

ESSENTIALS OF COLLEGE MATH

Mission Statement: SouthLake Christian Academy exists for the sake of God's glory and mission; proclaiming the gospel and discipling the whole person in all aspects of God's reality.

Course Description: Essentials of College Math is a course created by the Southern Regional Education Board (SREB). Also known as a Readiness Course, this course is designed help students get ready for postsecondary education. The course is built with rigor, innovative instructional strategies, and a concentration on contextual learning that departs from procedural memorization and focuses on engaging the students in a real-world context. This course addresses standards throughout high school and even earlier, including Algebra I, statistics and geometry, and the Algebra II standards agreed to as essential college and career-readiness standards for most students. The full range of content standards found in Algebra II is not addressed because some are not seen as essential college and career-readiness standards for non-STEM math courses. While this course covers the basics in math practices and reviews the procedural steps needed to be successful in math, it is designed to be presented in a new, engaging way based heavily on conceptual teaching and learning. This course is not for those students planning on a STEM college major.

Course Content:

Unit 1: Algebraic Expressions

Unit 2: Equations

Unit 3: Measurement and Proportional Reasoning

Unit 4: Linear Functions

Unit 5: Linear Systems of Equations

Unit 6: Quadratic Functions

Unit 7: Exponential Functions

Unit 8: Statistics Analysis

Required Text: In lieu of a hardbound text and online notes, packet materials and worksheets will be supplied by the teacher to be put into student supplied binders, thus building a personal textbook throughout the course.

Evaluation:

• **Tests: 60% of the semester grade.**

Tests will be given at the end of every unit. Make-up tests need to be completed as soon as possible. See the Test Make-Up Policy for more information.

• **Quizzes: 20% of the semester grade.**

Announced and/or pop quizzes will be given at least weekly. I will drop the lowest 2 quiz grades. If you are absent, you must consult me on a method of making up a missed quiz.

• **Homework: 10% of the semester grade.** Homework will be assigned and checked for completion. No credit will be given for homework turned in late. All students begin the semester with a 100% homework grade. For each assignment not completed, 3 points will be subtracted. For example, if three homework assignments are not completed, then the overall homework grade would be 91%. No credit will be given for late assignments.

• **Lab/Notebook: 10% of the semester grade - Class work and completed binder work/notes** Packet/notebook materials filled out with notes and class work for each unit will be checked in class during unit tests for completeness. Grades will be based on thoroughness, as well as evident class participation in the class work areas of the packets. Students must always bring required materials to class. No credit for late assignments; 4 lab grades per semester.

• **Projects:** A paper or project may be assigned at some time. It may be graded as a test or quiz grade, at teacher discretion.

• **Extra Credit:** No extra credit will be offered per school policy. However, students may be given a bonus question(s) on each test (not to exceed more than 5 pts, and 100% maximum test grade). Bonus points cannot be transferred to past or future tests.

- **Test Make-Up Policy:** If a student comes into school late and as a result has missed a test, the student will immediately report to the office to make-up that test. Students have **ONE** day for each day absent (excused) to makeup all tests and quizzes; if this is not possible, arrangements should be made with the instructor within this window of time. If the test/quiz is not made up in this period, **10 pts will be deducted** from the final test/quiz grade **for each day past the makeup day**. After two days have elapsed, an “M” will be assigned on RenWeb, which will calculate your grade as if it were a zero, until the test is made up.

Attendance:

- **Absences:** It is your responsibility to inquire about all make-up assignments and tests as the result of an absence. The rigors of this course require you to miss a minimal number of classes. Do not schedule appointments during this class. A deadline will be given by the teacher and agreed upon by the student. Note: If you are absent due to a school activity, including sports, you must make arrangements prior to your absence.
- **Tardy to Class:** When you are tardy, it is your responsibility to obtain a pass from the office or a teacher; otherwise you will not be admitted into class.

Classroom Rules and Expectations:

- Follow all rules and procedures in the SouthLake handbook.
- Come to class on time, prepared, with a positive attitude, and **all materials for the day**. Materials include your binder and packets, notebook, paper, PENCIL, completed assignment, and your TI 84+ graphing calculator.
- Ask any question; we are here to learn together!! But let’s maintain our respect for one another; only one person should be talking at a time.
- You will learn proportionately to the effort you put in, and the outlook you bring; you bear the responsibility for your success!!
- Talking quietly with a classmate about how to set up a problem is fine; talking with them about other subjects is not!

Formula for Success:

- **Take Complete Notes!** You should completely notate what we discuss and discover in class to earn a good lab grade, but also to have for reference in future math classes. For example, why a certain formula was appropriate or a written explanation of how and why a certain step was performed will be of much use later.
- **Go** over your notes as soon as possible after class to fill in any missing information and to check to see whether you understand what you have written.
- **USE** your notes when doing homework or studying for quizzes and tests.
- **Own your education!!** ☺

Christian Perspective: We serve King Jesus...

- **Colossians 3:17** And whatever you do, whether in word or deed, do it all in the name of the Lord Jesus, giving thanks to God the Father through Him
- **Colossians 3:23** Whatever you do, work at it with all your heart, as working for the Lord, not for men.
- **Philippians 2:14** Do everything without complaining or arguing, so that you may become blameless and pure, children of God without fault in a crooked and depraved generation, in which you shine like stars in the universe as you hold out the word of life...

Required Supplies:

- Notebook (a 1 inch 3 ring binder with pockets)
- Paper & **Pencil**, of course
- A **Graphing Calculator is required** for the course. It is recommended that students purchase a TI-84+ calculator. Depending on the content, a calculator may or may not be permitted during a quiz or test.