



# Pre- AP Pre-Calculus 20 Course Outline



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## Instructor's Contact Information:

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Rm 222

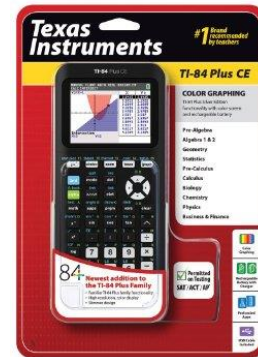
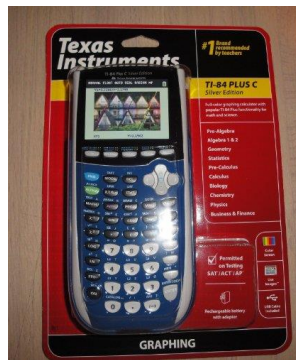
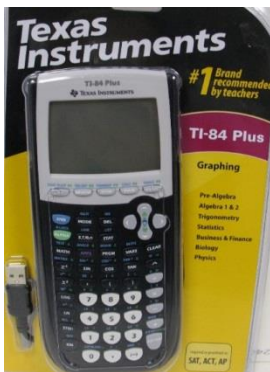
**Website:** <https://sprungalapc20.weebly.com/> (Your resource for notes, assignments and videos)

## Materials Needed:

- 3 hole punch graph paper coil notebook
- 3 Ring Binder
- Geometry Set
- Pencils
- Erasers
- Ruler
- Scientific Calculator
- Graphing Calculator

Note: Cell phones, iPods and other electronic devices may NOT be used as calculators.

- You need to have a Texas Instrument Graphing Calculator in order to complete various Pre-AP portions of this course (and for each subsequent Pre-AP and AP Math course). Below are photos of some of the types and varieties that will meet the needs of the students.



- You will also need a scientific calculator. You will **NOT be allowed** to use any calculators that say WriteView, Multi-View, Textbook Display or Natural Display/Expression.

## Approved Scientific Calculator List:



Sharp – EL-510, 520 or 531

Texas Instrument – TI 30X

Casio – fx300 or 260



<b><u>Evaluation:</u></b>	40%	Quizzes, Assignments and Projects
	45%	Comprehensive Tests (Three tests at 15% each)
	0%	Homework Checks
	15%	Final Exam

### **Course Content and Outcomes:**

#### Outcome for Ch. 3 and 4.2

- P20.7 Demonstrate understanding of quadratic functions of the form  $y=ax^2+bx+c$  and of their graphs.
- P20.6 Expand and demonstrate understanding of factoring polynomial expressions.

#### Outcomes for Ch. 4.1,3,4 and 8

- P20.8 Demonstrate understanding systems of quadratic equations including the solution of: single variable equations, systems of linear-quadratic and quadratic-quadratic equations in two variables.

#### Outcome for Ch. 9

- P20.9 Expand and demonstrate understanding of inequalities including: one-variable quadratic inequalities and two-variable linear and quadratic inequalities.

#### Outcome Ch.5

- P20.2 Expand and demonstrate understanding of radicals with numerical and variable radicands including: computations and solving equations (limited to square roots and one or two radicals).

#### Outcome Ch.6

- P20.3 Expand and demonstrate understanding of rational expressions and equations (up to and including degree 2 numerators and denominators) including: equivalent forms of expressions, operations on expressions and solving equations that can be simplified to linear or quadratic equations.

#### Outcome Ch. 7.4

- P20.11 Demonstrate understanding of reciprocal functions of: linear functions and quadratic functions.

#### Outcome Ch.7

- P20.1 Demonstrate understanding of the absolute value of real numbers and equations and functions involving the absolute value of linear and quadratic functions.

#### Outcome Ch. 1

- P20.10 Demonstrate understanding of arithmetic and geometric (finite and infinite) sequences and series.

#### Outcome Ch. 2

- P20.4 Expand and demonstrate understanding of the primary trigonometric ratios including the use of reference angles ( $0^\circ \leq \theta \leq 360^\circ$ ) and the determination of exact values for trigonometric ratios.
- P20.5 Demonstrate understanding of the cosine law and sine law, including the ambiguous case.

### **Expectations:**

- ❖ Be on time. Be prepared. Do your work. Respect yourself and others.
- ❖ The use of cell phones is NOT allowed in the classroom. Keep your phone in your backpack or purse. DO NOT set it on your desk. Mrs. Sprungala will give you advance notice if technology is needed in class. If seen using improperly the device will be confiscated.
- ❖ If a student is absent from class, he/she is expected to check with a classmate, check the website or email Mrs. Sundeen and complete the work assigned that day.
- ❖ If a student is absent on the day of an assessment and prior arrangements are not made with me, then the assessment will be written **in class on the day of return.**

### **Student/Parent Communication:**

You, as a Regina Public Schools student, have access to your grades online, through a link on the Campbell Collegiate website. Your login information is the same as the login information you use to log onto the school computers. This access is to help you monitor your attendance as well as assignments that may be outstanding. Parent Portal is a tool that helps parents achieve the same goal. The parent login information is available in the main office.

### **Math Help:**

If you are having difficulty, please ask for help. In addition to asking me for help, Campbell's Math teachers offer Math Help **every** day. Schedules will be posted throughout the school and on the Campbell website. Remember teachers are volunteering their time during math help come prepared with all your materials.

### **Homework:**

Students will be assigned daily homework assignments from the textbook or handouts. These will be assignments to practice the skills and concepts learned that day. It is imperative to complete these assignments in a timely manner to be successful. I will complete homework (HW) checks to assess how the student is doing and if they are completing the assignments.