

Pre-Calculus 11 Course Outline

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CORE COMPETENCIES



Core competencies are sets of intellectual, personal, and social and emotional proficiencies that all students need to develop in order to engage in life-long learning. In Pre-Calculus 11, we learn about new and expanded concepts from earlier grades designed to prepare you for Pre-Calculus 12 and future Calculus courses, but we also work on developing core competencies. In class you can:

- develop critical and creative thinking skills. Learning math and solving problems is a workout for our brains!
- develop a curious outlook. Ask any questions about mathematics and wonder about how concepts connect.
- work collaboratively with classmates and the teacher to fully understand concepts in a supportive environment.
- strive towards a growth mindset.



Topics Covered

Unit 1: Roots and Powers

Unit 2: Radical Operations and Equations

Unit 3: Solving Quadratic Equations

Unit 4: Analyzing Quadratic Functions and Inequalities

Unit 5: Trigonometry

Unit 6: Rational Expressions and Equations

Unit 7: Financial Literacy

Course Evaluation

80% Unit Tests, Final exam

20% Problem Solving and Assignments

To Succeed in Pre-Calculus 11:

1. Be patient! Learning mathematics takes time. Go back to something that was difficult to learn and you might find that after a few days it is easier to understand.
2. Get enough sleep (8-10 hours). Your brain processes and sorts the information you learned throughout the day while you are sleeping.
3. Ask for help in class/at lunch.
4. Do **at least** 1 hour of math at home every day (redo examples from lesson, questions from workbook and worksheets, write/rewrite notes, watch videos, explain math concepts, work on problem solving, make a study group)
5. Focus during the lesson and during class work time.
6. Learn from mistakes. Mistakes are an opportunity to advance your learning. If you make a mistake, you now know what you didn't know and can focus on trying to understand that concept.
7. Put phone away in backpack. Phones are designed to be addicting and distracting. The presence of a phone interferes with focus and concentration even if you are not using it. Enjoy learning, get better grades, and make new friends.

Workbook

Pre-calculus 11 my Worktext BC Edition

Communication

Regular updates will be emailed to students and parents/guardians including information about upcoming tests and assignments.

Supplies

Paper/notebook, graph paper, pencil, eraser, colourful pens/highlighters, scientific calculator (2 line display is recommended), workbook.

Classroom Expectations

- Behave respectfully in our classroom (appropriate language, arrive on time, be considerate)
- Minimize distractions by putting devices away during class time.
- Do not copy assignments or cheat on tests.

Parent/Guardian will be notified if student is not following classroom expectations.

