

NORKAM SECONDARY SCHOOL

Pre-Calculus 11 (Fall 2020)

Textbooks: Theory and Problems for Pre-Calculus 11 - Mickelson

Assessment: Students will be expected to complete homework and assignments, as well as paper and pencil tests. The primary use of the homework and assignments are for the student & teacher to gauge their level of understanding of course material prior to a test and for practise. Paper and pencil tests are conducted to determine your level of understanding. Students will be expected to generally meet the held expectations of the Pre-Calculus 11 course – see Pre-Calculus 11 BC Government Ministry of Education for more information of the listing of the course objectives.

Evaluation: Letter grades are assigned based upon provincial regulations.

Materials: Students require a graphing calculator (TI 83+, TI84, TI84+ is preferred), graph paper and the usual school supplies, in addition a spiral back notebook is recommended but not required.

Studying and Homework: Students have daily assignments, and are encouraged to review and do extra problems to aid in studying for chapter tests, the midterm, and the final exam. Students should be doing **at least 30 minutes** studying/homework per night to be successful in the course.

Extra Assistance: Your classroom teacher is available most days outside of class time {mornings, lunch hour, after school} for help. It is the student's responsibility to seek help when it is needed. In case of an absence, you will be able to find a copy of any missed notes on our Google classroom website. The Google class code is: **iw2ckil**

Evaluation (Each chapter is comprised of):

Chapter Tests and Quizzes	80 - 90%
Homework and Assignments	10 - 20%
Total (for each unit)	100%

Note 1: Students have the opportunity to prove that they have learned the prescribed learning outcomes of this course at many points through the year (during the unit, end of unit, Midterm, and Final Exam).

Topics and Ordering – Note: this is an outline only, the ordering of the topics presented is at the teacher's discretion:

- Chapter 1 – Factoring and the Quadratic Function
- Chapter 2 – Quadratic Transformations
- Chapter 3 – Quadratic Equations
- Chapter 4 – Systems of Equations
- Chapter 5 – Radicals
- Chapter 6 – Rational Functions
- Chapter 7 – Trigonometry
- Chapter 8 – Finance

Midterm Exam – 20%. Final Exam – 25%.

Note: As this is an academic course, students are to ensure their cell phones are off, and any other personal electronic devices are not in use during instructional time.

Students will also be developing their skills in the following curricular competencies:

Reasoning and analyzing

- Use reasoning and logic to analyze and apply mathematical ideas
- Estimate reasonably
- Demonstrate fluent and flexible thinking of number
- Use tools or technology to analyze relationships and test conjectures
- Model mathematics in contextualized experiences

Understanding and solving

- Develop, demonstrate, and apply mathematical understanding through play, inquiry and problem solving
- Visualize to explore and illustrate mathematical concepts and relationships
- Apply flexible strategies to solve problems in both abstract and contextualized situations
- Engage in problem - solving experiences that are connected to place, story, and cultural practices and perspectives relevant to local First Peoples communities, as well as other cultures

Communicating and representing

- Communicate mathematical thinking in many ways
- Use mathematical vocabulary and language to contribute to mathematical discussions
- Represent mathematical ideas in a variety of ways
- Explain and justify mathematical ideas

Connecting and reflecting

- Reflect upon mathematical thinking
- Use mathematics to support personal choices
- Connect mathematical concepts to each other and to other areas and personal interests
- Incorporate First Peoples worldviews and perspectives to make connections to mathematical concepts