

ST. FRANCIS XAVIER CATHOLIC HIGH SCHOOL



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Mathematics 2021-2022

Math 31

Semester 2 : February 1, 2022-June 17th, 2022

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Google Classroom Code:

gyexe22

St. Francis Xavier High School acknowledges Treaty 6 territory—the ancestral and traditional territory of the Cree, Dene, Blackfoot, Saulteaux, Nakota Sioux, as well as the Métis. We acknowledge the many First Nations, Métis, and Inuit whose footsteps have marked these lands for generations. We are grateful for the traditional Knowledge Keepers and Elders who are still with us today and those who have gone before us. We recognize the land as an act of reconciliation and gratitude to those whose territory we reside on or are visiting.

GENERAL OUTCOMES/ COURSE OVERVIEW

1. Pre-calculus
2. Limits
3. Derivatives
4. Applications of Derivatives (Maxima/minima)
5. Curve Sketching
6. Motion, and Related Rates
7. Limits, Derivatives and Applic. of Trig. Func.
8. Integrals, Integral Theorems and Integral Applications
9. Elective Units (Exp. & Logs)

ASSESSMENT

School based mark is weighted as follows:

Quizzes and assignments (may be announced or unannounced)	10%
Unit exams (full period exams that occur at the end of each unit)	70%
Midterm Exam (a summative evaluation of first 4 units)	10%
Final Exam	10%



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COURSE STRUCTURE

Mathematics 31 is designed in a **required – elective** format. The required component is divided into four units and is intended to take from 75% - 90% of the instructional time. There are eight units available in the “elective” component, of which teachers and students may do one or more units intended to take 10 – 25% of the instructional time.

REQUIRED COMPONENT (75% - 90%)

Unit 1: Precalculus and Limits

Unit 2: Derivatives and Derivative Theorems

Unit 3: Applications of Derivatives

Unit 4: Integrals, Integral Theorems and Integral Applications

The time required to cover Unit 1 will vary greatly from class to class. Students with an excellent background in Mathematics 10 – 20- 30 will be able to cover the first three sections of Unit 1 very quickly, as many of the topics should be familiar to them. The limits section of Unit 1 is new for all students.

ELECTIVE COMPONENT (10% - 25%)

*probable units covered

Unit E1: Calculus of Exponential and Logarithmic Functions*

Unit E2: Numerical Methods*

Unit E3: Volumes of Revolutions*

Unit E4: Applications of Calculus to Physical Sciences and Engineering

Unit E5: Applications of Calculus to Biological Sciences

Unit E6: Applications of Calculus to Business and Economics

Unit E7: Proofs of Limit, Derivative and Integral Theorems

Unit E8: Further Methods of Integration

IMPORTANT:

A wide range of assessment information is used in the development of a student’s final grade. At St. Francis Xavier High School, individualized assessments provide specific information regarding student progress and overall performance in class. Student assessment may vary from student to student to adapt for differences in student needs, learning styles, preferences, and paces. It should also be noted that not all assignments are used to determine the final grade, and that scale factors may have been used to determine the weight of individual assignments.



MISSED ASSESSMENT POLICY

Missed Exam Policy:

Missed assessments will be assigned a mark of **zero** and will be completed as soon as possible pending the student's return. Marks for the missed assessment will only be awarded when a parent/guardian/doctor supplies a note with contact information and a valid reason for the absence. (Please see student handbook for the list of valid reasons: <http://stfrancisxavier.ecsd.net/handbook.php>). Please notify the teacher **prior** to extended absences if possible.

PLAGIARISM

We provide a Catholic education, where the Core Values of dignity, respect, fairness, personal and communal growth, loyalty, and honesty are the framework for all that we do. Within this Catholic education that St. Francis Xavier School provides, one of our main focuses is to encourage and facilitate the pursuit of knowledge and excellence in academics. To ensure that we attain this focus, all students at our school community are expected:

1. to meet the standards of individual integrity outlined in the policy;
2. to practice intellectual honesty in the process of acquiring and extending knowledge by improving their own personal academic competence, critical thinking, and self-evaluation.

Therefore, students who submit work not their own, take or copy answers from another student or source (cheating), provide answers to any assessment to another student (collusion), cheat during examinations, or use unauthorized means to obtain answers or complete work, after investigation by the teacher supervisor, are at risk of the following:

- First offense – May receive a zero for the assessment and a two-day suspension.
- Second offense – May receive a zero for the assessment and a three-day suspension.
- Third offense – May be removed from the class, further suspensions, or possible recommendation for expulsion.

Conditions surrounding the investigation will be considered and each situation will be dealt with on an individual basis. Review of the incident will first be conducted by the teacher and will then potentially involve additional staff (department head), administration, parents and the student(s) involved.

SCHOOL POLICIES

St. Francis Xavier does not publish report cards. Parents and students are encouraged to keep up to date on Power School and contact their teacher if there are any issues.

At St. Francis Xavier, zeros may be administered for incomplete or absent work with the opportunity to rectify the mark with conversation with their teacher.

CELL PHONE POLICY

Cellphones may be used in the classroom by the teacher invitation only. If the teacher deems the device is a distraction to the learning environment, the teacher reserves the right to ask that the phone be put away or to confiscate until the end of the class.

No cellphones shall be on a student's person during an assessment and should be put on mute in their bag. A zero will be awarded if the device was used for cheating.

