



Archbishop MacDonald Catholic High School

Course Math 31

Year 2026-2027

Term Semester 1

Teacher(s) Ms. Jocelyn Nicholson Jocelyn.Nicholson@ecsd.net

Resources Prescribed Text: Calculus: Graphical, Numerical, Algebraic
References: International Baccalaureate: Mathematical Methods
Calculator: TI-83+, TI-84, TI-nspire

Program of Studies <https://curriculum.learnalberta.ca/curriculum/en/pos/MATCAL>

Overview The required content contains the concepts, skills and attitudes that all students are expected to acquire. Students demonstrate their ability and interest in mathematics and have confidence in their mathematical abilities. They choose the most efficient method for solving problems, can find more than one solution, and can solve non-routine problems. They can clearly explain the process chosen using appropriate language, mathematical notation and conventions. Students exhibit an ability to apply a broad range of problem-solving skills to the following units:

- Pre-calculus
- Limits of Algebraic Functions
- Derivatives of Functions
- Limits & Derivatives of Other Functions
- Curve Sketching
- Applications of the Derivative
- Integration & Its Applications



IB Philosophy

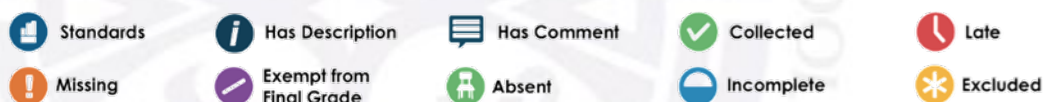
MAC's courses use the IB philosophy to encourage the holistic development of all students. The Learner Profile and Approaches to Teaching and Learning are used at all levels so that students develop a better understanding of curriculum objectives. This course will focus on the Learner Profile for THINKERS because we use critical and creative thinking skills to act on complex problems. Our Approaches to Learning skill will be THINKING because we emphasize skills such as reflection and critical thinking.

Assessment

The assessment plan for the course will be a balance of assessment for learning, assessment as learning, and assessment of learning. Your summative grade will be calculated ***cumulatively*** throughout the semester with the following:

Tests	80%
Final Exam	20%

The code NHI may be used to represent coursework that has not been handed in. It is representative of a zero. In addition, the following may appear for a student in PowerSchool instead of, or in addition to, a numeric grade:



Disclaimer

A wide range of assessment information is used in the development of a student's final grade. At Archbishop Macdonald Catholic 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.

**Personal Mobile
Device Standards**

Mobile Devices and Social Media Use:

- Personal mobile devices are to be silenced or turned off and stored in the student's assigned locker during the day, which must be locked.
- No personal mobile devices are to be used during the day except for at lunch.
- No social media is to be accessed during the school day.
- Tablets/laptops are used for educational purposes only.
- The standards for Personal Mobile Devices includes cell phones, SMART watches, earbuds, and headphones
- Non-compliance with the standards will result in consequences of a suspension or loss of privileges such as participation in school trips, or activities, sports teams, and extracurricular activities.

Expectations

Unexcused absences and/or lates are unacceptable and may have a negative effect on the grade. Missed coursework may be expected to be completed and may be scored as zero or NHI until submitted (see disclaimer).

Student Handbook

[LINK](#)

Academic Integrity

[LINK](#)