



# J.A. Williams High School

## Course Outline

### **Math 31**

Instructor's Name: M.Dyck

School's Phone Number: 623-4271

Instructor's e-mail address: matthew.dyck@nlsd.ab.ca

### **RESOURCES**

1. Texts – Calculus A Problem-Solving Approach
2. Supplies - Calculator

### **COURSE OBJECTIVES**

To introduce students to the basic concepts of Calculus.

To help students develop the critical thinking skill of using Calculus to solve problems involving real-life situations.

### **TIMELINE OF CONTENT**

(by Units)

Unit	Topic	Classes	Approximate Timeline
1	Pre-calculus and limits	12	September
2	Derivative and Derivative theorems	16	October
3	Applications of Derivatives	16	November
4	Integral, integral theorems and integral applications	16	December-January

### **COURSE EVALUATION**

(Criteria and Value)

- |                            |     |
|----------------------------|-----|
| 1. Unit Exams              | 50% |
| 2. Assignments and Quizzes | 20% |
| 3. Final                   | 30% |

## **MARKING / INSTRUCTIONAL PHILOSOPHY**

Welcome everyone. I hope that we will have a great year with lots of learning taking place and maybe having some fun as we go along. I invite students and parents to please contact me with any questions and concerns.

I believe that marks should not be the sole purpose of taking a class. If students concentrate on the concepts and learn to the best of their ability, they will perform well on the assessments and receive marks indicative of their level of competency in the course.

Classes will consist of lectures, discussions, formative assessments and summative assessments. Assessments can be assignments/quizzes (Concept Checks), exams, labs and discussions.

Formative assessments are used to help students identify concepts that need more work so that they can correct any errors. These assessments help them form their knowledge and skills.

Summative assessments are used for grading purposes. Students will be assigned marks based on their achievement on these assessments.

If you miss a unit exam you may be eligible for a rewrite. Rewrites for unit exams will be during our zero days, November 9, December 20 and January 21 or at the teacher's discretion. Exams that have occurred between zero days will be eligible. For example, a unit 3 exam is written on December 5. It will be eligible for a rewrite only on December 20 and no other time.