Math 1003: Syllabus

Instructor: Trevor Jones
Office: Annex A, A13
E-mail: tjones1@unbsj.ca

Office Hours: MW: 13:00-14:00

Textbook: *Calculus: Early Transcendental Functions*, 4th edition, Larson, Hostetler, and Edwards.

Class Location and Times

- **Section 2A**: MTWF 11:30-12:20, GH115
- **Section 3A**: MW 14:30-15:45, GH215
  F 08:30-09:20, OH106

Course Website

http://www.eduspace.com

To register, you will need to first register as a user and choose your username and password.

To register for the course, you need:

Course Code: TJONE-42A0C56A95303C

Eduspace passkey: included with your textbook.

Grading Scheme

	A	B
• **Assignments/Quizzes**:	10%	10%
• **Tests**: October 12th, 2007:	20%	10%
November 16th, 2007:	20%	10%
• **Exam**:	50%	70%

F:	0-44	B-:	65-69	A:	86-91
D:	45-49	B:	70-74	A+:	92-100
C:	50-57	B+:	75-79		
C+:	58-64	A-:	80-85		

Course Content

Chapter 1: Preparation for Calculus

- 1.1: Graphs and Models
- 1.2: Linear Models and Rates of Change
- 1.3: Functions and Their Graphs
- 1.5: Inverse Functions
- 1.6: Exponential and Logarithmic Functions

Course Content (con't)

Chapter 2: Limits and Their Properties

- 2.2: Finding Limits Graphically and Numerically
- 2.3: Evaluating Limits Analytically
- 2.4: Continuity and One-Sided Limits
- 2.5: Infinite Limits

Course Content (con't)

Chapter 3: Differentiation

- 3.1: The Derivative and the Tangent Line Problem
- 3.2: Basic Differentiation Rules and Rates of Change
- 3.3: Product and Quotient Rules and Higher-Order Derivatives
- 3.4: The Chain Rule

Course Content (con't)

Chapter 3 (con't)

- 3.5: Implicit Differentiation
- 3.6: Derivatives of Inverse Functions
- 3.7: Related Rates

Course Content (con't)

Chapter 4: Applications of Differentiation

- 4.1: Extrema on an Interval
- 4.2: Rolle's Theorem and the Mean Value Theorem
- 4.3: Increasing and Decreasing Functions and the First Derivative Test
- 4.4: Concavity and the Second Derivative Test
- 4.5: Limits at Infinity

Course Content (con't)

Chapter 4 (con't)

- 4.6: A Summary of Curve Sketching
- 4.7: Optimization Problems

Notes

- The two tests and the final exam are **CLOSED-BOOK** and **CLOSED-NOTES.**
- The use of calculators (or any other electronic aide) is **NOT** permitted during tests or exam.
- If you miss a test due to a (documented) valid reason, contact your instructor immediately. The marks will be redistributed to the final exam.

Notes (con't)

- In case of difficulty, contact your instructor immediately.
- Your attention is drawn to the University Regulations on Academic Offenses, as published in the Undergraduate Calendar:

  https://eservices.unb.ca/calendar/undergraduate/

  Any student who infringes one of these will be treated according to the published policy.