

## **MTH 151 - CALCULUS I – SCHEDULE**

<b>Day</b>	<b>Sections</b>	<b>Topic</b>
1	2.1,	Course Introduction, The Tangent Line Problem
2	1.1-1.4	Pre-course Review on MyMathLab
3	2.2,2.3,	Finding Limits Graphically, Computing Limits, One Sided Limits,
4	2.4,2.5,	Infinite Limits, Limits at Infinity,
5	2.6, <b>2.7</b> ,3.1,	Continuity, Introducing the Derivative,
6	3.2,	Working with Derivatives, <b>Exam 1</b>
7	3.3,	Rules of Differentiation, <b>Workshop</b>
8	3.4,3.5,	Product and Quotient Rules, Derivatives of the Trigonometric Functions,
9	3.6,3.7,	Derivatives as Rates of Change, The Chain Rule
10	3.8,	Implicit Differentiation, <b>Workshop</b>
11	3.9,	Derivatives of Logarithmic and Exponential Functions, <b>Workshop</b>
12		<b>Exam 2</b>
13	3.10,	Derivatives of Inverse Trig Functions, <b>Workshop</b>
14	3.11,	Related Rates, <b>Workshop</b>
15	4.1, 4.2,	Maxima and Minima, What Derivatives Tell Us
16	4.3,	Graphing Functions, <b>Workshop</b>
17	4.4,	Optimization, <b>Workshop</b>
18	4.5, <b>4.6</b> ,	Linear Approximations & Differentials, <b>The Mean Value Theorem</b> , <b>Workshop</b>
19		<b>Exam 3</b>
20	4.7,	L'Hopital's Rule, <b>Workshop</b>
21	4.8, 4.9,	Newton's Method, Antiderivatives,
22	5.1, 5.2,	Approximating Areas Under Curves, Definite Integrals,
23	5.3,	Fundamental Theorem of Calculus, <b>Workshop</b>
24	5.4,	Working with Integrals, <b>Workshop</b>
25	5.5,	The Substitution Rule, <b>Workshop</b>
26		<b>Exam 4</b>
27		<b>Workshop</b>
28		<b>Workshop</b>
29		<b>Final Exam</b>
30		Review Final Exam

# ***POLICIES***

**INSTRUCTOR:** GREG SEVERANCE  
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## **GRADING POLICY:**

### **WEIGHTING**

SEMESTER EXAMS	60%
HOMEWORK	20%
FINAL EXAM	20%

### **GRADING SCALE**

90 - 100%	4.0
85 - 89%	3.5
80 - 84%	3.0
75 - 79%	2.5
70 - 74%	2.0
65 - 69%	1.5
60 - 64%	1.0
50 - 59%	0.5
0 - 49%	0.0

## **ATTENDANCE:**

You are expected to attend all class sessions although you will not be graded directly on your attendance. I reserve the right to withdraw you from the class if missed assignments are excessive to the degree that I do not think you will pass the course.

## **ACADEMIC HONESTY:**

Refer to the JCC academic honesty policy in the JCC handbook for a complete policy description. The potential consequences of violating the academic honesty policy are as follows. If I suspect a student of academic dishonesty I may penalize the student by taking appropriate action up to and including assigning a failing grade for the paper, project, report, exam, or the course itself.

**Cellular phones are not to be used for any purpose in the classroom.**

## **ASSIGNMENTS:**

In class exercises will be assigned and graded. Unless otherwise specified by the instructor, in class exercises are to be completed immediately and are due upon completion.

By hand homework will be assigned and graded. Unless otherwise specified by the instructor, this homework is due at the beginning of the class session following the session during which it was assigned. Homework problems must be submitted at the beginning of class or when the instructor arrives at class on the due date or they will not be accepted for credit.

### **EXAMS:**

Exams will be open notes and TI-83+/TI-84+ graphing calculator dependent. A formula sheet may be used.

### **FINAL EXAM:**

The final exam will be comprehensive and it will open notes and TI-83+/TI-84+ graphing calculator dependent. A formula sheet may be used.

### **MAKEUP POLICY:**

You must notify the instructor in advance if you must miss a class session during which an exam is scheduled or an assignment is due. The instructor, at his discretion, may allow you to take the exam or submit the assigned work early. If this is not possible, the following provisions apply.

- Exams cannot be made up.
- Assigned work that is submitted after it is due will not be accepted for credit. In class quizzes or graded exercises that are missed cannot be made up.

### **GRAPHING CALCULATOR:**

The Texas Instruments TI-83+ or TI-84+ graphing calculator is required equipment for this course. You are required to obtain one prior to the first class meeting and bring it to every class meeting. Throughout the course procedures will be discussed, demonstrated, and used during class that are specific to this calculator. Exams and homework will be TI-83+/TI-84+ calculator dependent. Use of a graphing calculator other than the TI-83+/TI-84+ is strongly discouraged.

### **ADO OUTCOMES:**

This course addresses the following institutionally defined Associate Degree Outcomes:

- Demonstrate computational skills and mathematical reasoning.
- Critical thinking.

### **REVISION:**

I reserve the right to revise any part of this syllabus as I deem necessary throughout the semester. Revisions, if they occur, will be announced during class.