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University of Lethbridge  
Department of Mathematics and Computer Science  
Mathematics 1560(A,B) • Calculus I  
Course Outline • Fall 1999

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**LECTURES:** MWF 9:00-9:50(A), 2:00-2:50(B) Room: D634(A), C674(B)

**TUTORIALS:**

Tutorial 1	T 8:25-9:15	Room: E519
Tutorial 2	T 9:50-10:40	Room: E519
Tutorial 3	T 10:50-11:40	Room: E519
Tutorial 4	T 14:05-14:55	Room: PE244
Tutorial 5	W 9:00-9:50	Room: D511
Tutorial 6	W 10:00-10:50	Room: D511
Tutorial 7	W 13:00-13:50	Room: D511

**INSTRUCTOR:** Dr. H. Kharaghani Office: D540

**HELP SESSIONS:** Tuesday and Thursday, 7:00-9:00 p.m. Room: TH237

**ACADEMIC ASSISTANT:** Rex Forsyth Office: D516

**TEXT:** *Calculus*, 3rd or 4th edition by James Stewart

**GRADING:**

Homework/Quizzes	15%	
Midterm Exam	42.5%	Sat., Oct. 23, 13:00-15:00 in PE244 and PE252
Final Exam	42.5%	Dec. 17, 9-12(A), Dec. 18, 9-12(B)

**Attendance:** It is not easy to learn mathematics by reading a book. From past experience, **those who attend the lectures regularly find the course very easy and enjoyable.**

**PROJECTED TEACHING OUTLINE**

<u>Week</u>	<u>Sections of the text</u>
1	Review of inequalities
2	Functions
3	Limits
4	Limits
5	Continuity
6	Derivatives
7	Derivatives
8	Derivatives
9	Applications of the differentiation
10	Applications of the differentiation
11	Integrals
12	Integrals
13	Integrals
14	Review

## ASSIGNMENTS

The assignment component of your final grade is determined by the average on your ten assignments. Each assignment is due at classtime on the day specified. Assignments may be turned in early, **but cannot be accepted late**. Please submit the assignments on **standard, left-corner stapled papers**. **Please do not use paper clips, etc..**

<u>Number</u>	<u>Due Date</u>	<u>Problems from 3rd edition</u>	<u>Problems from 4th edition</u>
1	Sept. 17	Page A10, #36, 38, handout Page 14, #21, 28, 33, 44, 49	Page A9, #34, 36, handout Page 23, #27, 32, 33, 38, 40
2	Sept. 24	Page 17, #88, 90 Page 25, #18, 24, 25 Page 59, #3, 14 Page 68, #9, 30, 42	Page 48, #36,38 Page 47, #18, 24, 23 Page 82, #7, 20 Page 92, #7, 22, 34
3	Oct. 01	Page 69, #48, 50, 57, 60, 75, 78 Page 88, #6, 16, 40, 48, 58Bonus	Page 92, #38, 40, 41, 44, 57, 58 Page 113, #12, 19, 39, 44, 58(b,c)Bonus
4	Oct. 08	Page 109, #1, 2, 59, 60 Page 120, #16, 34, 48, 50, 75 Page 130, #7, 11, 16	Page 134, #7, 8, 33, 34 Page 156, #26, 40, 66, 68, 83 Page 167, #7, 12, 16(a,b,c)
5	Oct. 15	Page 137, #8, 10, 32, 42, 48 Page 144, #42, 48, 58 Page 150, #10, 20, 30 Page 155, #30Bonus	Page 175, #36, 38, 22, 20, 44 Page 183, #38, 42, 52 Page 190, #12, 22, 36 Page 196, #34Bonus
6	Nov. 05	Page 160, #9, 11, 15 Page 168, #34, 40 Page 188, #20, 34, 51, 65	Page 203, #5, 9, 13 Page 211, #8, 10 Page 230, #30, 38, 57, 71
7	Nov. 12	Page 194, #6, 20, 19, 23 Page 205, #5, 8, 14, 23, 24	Page 238, #6, 18, 17, 21 Page 247, #29, 32, 38, 21, 22
8	Nov. 19	Page 216, #12, 14, 15, 54, 55 Page 224, #8, 10, 14 Page 236, #9, 17, 25, 29	Page 260, #14, 16, 17, 48, 49 Page 270, #10, 14, 18 Page 282, #11, 19, 27, 31
9	Nov. 26	Page 249, #9, 30, 32, 33 Page 280, #21, 27, 28, 33, 34	Page 304, #13, 34, 36, 37 Page 335, #25, 35, 36, 63, 64
10	Dec. 03	Page 292, #11, 79, 80 Page 300, #15, 16, 27, 28, 32, 53, 55	Page 344, #11, 43, 44 Page 361, #15, 16, 23, 24, 28, 51, 53