## CAMOSUN COLLEGE Math 115 - Pre-Calculus Course Outline Winter 2005

**COURSE HOURS**: Monday – Friday 2:30-3:20 in Fisher 202

**TEXT**: Larson, Hostetler, <u>Precalculus</u>, 6th edition, Houghton-Mifflin, 2004

Math. Dept., Introduction to Differential Calculus, Camosun College

**INSTRUCTOR**: Cathy Frost Office: Ewing 250

E-mail: <u>frost@camosun.bc.ca</u> Office Hours: 12:30-1:30 daily,

Phone #: 370-3404 or by appointment

## **OUTLINE**

OUL		CECTIONS	HOUDC	TOTAL
	UNIT	SECTIONS	<b>HOURS</b>	<b>TOTAL</b>
1.	Review, Graphing			
	Algebra Review, Conics	$A.1 \rightarrow A.8, 1.1, 1.2,$	8	
	Graphing, Linear Equations	Conics Handout		
	T 87 T	Review/TEST #1	2	10
2.	Functions	neview/1251 //1	-	10
۷.		$1.3 \rightarrow 1.6$	1	
	Functions, Graphing Techniques		4 5 1 2	
	Polynomial Functions	2.1, 2.2, 2.3, 2.5	5	
	Rational Functions	2.6	1	
		Review/TEST #2	2	12
3.	Exponents and Logarithms			
	Algebra of Functions	1.7, 1.8	2	
	Exponential and Logarithmic Functions	3.1, 3.2	2 4 3 1	
	Exponential and Logarithmic Equations	3.3, 3.4	3	
		3.5	1	
	Applications		1	10
	m. •	Review/TEST #3	2	12
4.	Trigonometry			
	Radians, Trigonometric Functions	$4.1 \rightarrow 4.4$	4 5	
	Graphs of Trigonometric Functions	$4.5 \rightarrow 4.7$	5	
	8			9
5.	Analytic Trigonometry			
<i>J</i> .	Trigonometric Identities and Equations	$5.1 \rightarrow 5.5$	9	
	Trigonometric Identities and Equations		2	1.1
_		Review/TEST #4	2	11
6.	<b>Introduction to Calculus</b>	_	_	
		Booklet	8	
		TEST #5	2	10
	Review & Preparation for Final Exam		8 2 2 66	2
		TOTAL	66	<u>2</u> 66
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## **Notes:**

- 1. Assignments are due two school days before the test. If you hand in your assignment on time, get at least 75%, and do better on the test, I will count your test mark for both the test and assignment. Assignments will not be accepted after the test is written.
- 2. No restrictions on technological aides in class or on tests (except for the final).
- 3. **Need extra help?** I encourage you to take advantage of our math tutor in the math lab (Ewing 224). You can also see me during office hours.
- 4. The final exam counts for 50% or 100%, whichever is to your advantage.
- 5. Best 4 out of 5 tests are counted. There are no rewrites. If you are ill on a test day, e-mail me about your absence, and see me the day you return to make other arrangements. Otherwise a zero will be recorded.
- 6. Sections A.1 $\rightarrow$ A.8 in **LH** 6th ed correspond to sections P.1 $\rightarrow$ P.8 in the 5<sup>th</sup> ed
- 7. Pre-requisite for 115 is now a B+ in Math 063/073; for Math 105 (same credit, 7.5h/wk)→need C in 063/073 Pre-requisite for Math 100 → B (75%); Math 108/109→C (60%) Please see an Academic Advisor (Dawson bldg) and talk with me if you do not have the necessary pre-requisites.

## **Tentative Pacing Schedule for Math 115**

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Wk	л. <b>Б</b> ера, <u>г</u>	<u>Introduction to Differ</u> Monday	Tuesday	Wednesday	Thursday	Friday			
****		10	11	12	13	14			
1	Jan.	A.1-A.2	A.2/A.3	A.4	A.5	A.6			
		17	18	19	20	21			
2		A.7-A.8	1.1/ Conics	Conics/1.2 Assignment due	Review	Test 1 (Appendices, 1.1,1.2,Conic)			
3		1.3	25 1.4	26	27 1.6	28 2.1			
4		2.2	Feb. 1 2.2	2.3 (omit 2.4)	3 2.5	2.6			
5	Feb.	7 1.7 Assignment due	8 Review	9 <b>Test 2</b> (1.3-1.6,2.1- 2.3,2.5,2.6)	10 Reading Break	11 Reading Break (school closed)			
6		14	3.1	3.1	3.2	3.2			
7		3.3	3.3/3.4	3.4	3.5	4.1			
8		28 4.2 Assignment due	1 Review	2 Test 3 (1.7,1.8,3.1-3.5)	3 4.3	4 4.4			
9	Mar.	7 4.5	8 4.5	9 4.6	10 4.7	4.7			
10		5.1	15 5.1	5.2	5.2	18 5.3			
11		5.3	5.4	23 5.4/5.5	24 5.5 Assignment due	25 Holiday			
12		28 Holiday	29 Review	Test 4 (4.1-4.7,5.1-5.5)	31 1.1/1.3*	Apr. 1 1.2*			
13	Apr.	1.4.1*	5 1.4.2*	6 1.5.1*	7 1.5.2*	8 1.5.3*			
14		11 1.5.4* Assignment due	12 Review	Test 5 (Calculus -all parts)	14 Exam Review	15 Exam Review			
	Final Exam Period: Apr. 18-23, 25,26								

**EVALUATION:** Assignments (10%) Unit Tests (40%) Final Exam (50% or 100%)

80-84 95-100 Percentage: 0-49 50-59 60-64 65-69 70-74 75-79 85-89 90-94 Letter Grade: F D  $\mathbf{C}$ C+B-В B+A-A A+