Spring 2017 -- MTH 131 APPLIED CALCULUS I
Syllabus & Calendar & Suggested Problems

Week of	Events	Sections	Suggested Practice Problems
Jan 23	Gateway Exam 1st class	1.1 function definition 1.2 linear function	**1.1:** 7,9,11,13,14,15,21,22,25 **1.2:** odds 1-17,21,25
Jan 30		1.3 average rate of change 1.5 exponential function 1.6 natural logarithm	**1.3:**1,3,4,7,9,11,13,15,21,27,30,31,33 **1.5:** odds 1-7,11,17,23,24,29,33 **1.6:** 1,7,9,11,15,16,21,odd 25, 33,36,43,47
Feb 6		1.7 exponential growth/decay 1.10 periodic function 2.1 instantaneous rate of change	**1.7:** odd 3-9,13,15,odd 23-31 **1.10:** 1,3,5,9,11,17,19,21,25,29 **2.1:** 3,4,5,9,11,17,19,20,21
Feb 13		2.2 derivative function 2.3 interpret. of derivative Limits	**2.2:** 1-9 odd, 18-21,27 **2.3:** 5,7,11,15,17,23,29,31 Extra materials
Feb 20	Exam I on 23rd	Limits, continuity, def. of derivative	Extra materials **p.135:** 1,3,5,9,11,13,15,17,19,21,27,35,37,39
Feb 27		2.4 second derivative 3.1dev for power/polynomials 3.2 dev exponential/logarithm	**2.4:** 1,2,3,11,13,17,20,23 **3.1:** 1-37 odd, 47,49,51,53,62 **3.2:** 1-27 odd,37,41,45,47
Mar 6		3.3 the chain rule 3.4 product/quotient rule 3.5 dev for periodic functions	**3.3:** 1-27,34,37,49 3.4: 1,3-31,35 **3.5:** 1-25 odd;
Mar 13	Spring Break		
Mar 20	Exam II on 23rd	Focus on Differentiation,	**p.165:** 15,21,35,37,43,49,61,62,71, **p.174:**1-63odd;
Mar 27		4.1 local max/min 4.2 inflection points 4.3 global max/min	**4.1:** 3,8,9,10,11,15,17,20,33 **4.2:** 10,11-23odd, **4.3:** 9,16-19,23,27,29
April 3		5.1 accumulated change 5.2 the definite integral 5.3 definite integral as area	**5.1:** 3-15odd, 19,29,31 **5.2:** 1,3,5,7,9,11,15,19,21,31 **5.3:** 1-13odd,19,21,25,27,29
April 10		5.4 interpret the def. integral 5.5+6.1 total change and antiderivative num/graph 6.2 indefinite integral	**5.4:** 1,5,7,9,11,13,17,18,24 **5.5:** 1,14,15; **6.1**: 5,7,8,21,22,23,24 **6.2:** 1-9odd,12,15-73odd
April 17	Exam III on 20th	6.3 FTC 5.6 average value	**6.3:** 1-21,25 **5.6:** 1,3,4,5,10,11
April 24		4.7 logistic growth 4.8 surge function Review	**4.7:** 1,7,8,13,14 **4.8:** 1,3,6,8,
May 1	Last class	Review	