Calculus II

MATH 2153

Time and Place:

Section 003: MWF 9:30-10:20am in LSE 215 Section 007: MWF 10:30-11:20am in HSCI 236 Section 009: MWF 11:30am-12:20pm in CLB 202

Professor: Igor E. Pritsker

Office: MSCS 519C

Office Hours: MWF 1:30-2:30pm

Office Phone: 744-8220

E-mail: igor@math.okstate.edu

Web: http://www.math.okstate.edu/~igor/math2153/math2153 fall2012.html

Textbook: Calculus (Early Transcendentals) by J. Stewart, 6th ed. (customized for OSU)

Grading: We have three semester tests and the Final Exam. The break up of your course grade is as follows:

Tests 1-3

60% (20% each)

Homework

15%

Final Exam

25%

Your grade will be determined according to the scale

A

90-100

B

80-89

C

70-79

D

60-69

F 59 and lower

Note that the above numbers are percentages of the highest possible score in the course.

Attendance is mandatory in this class.

Homework will be given online via WebAssign system. You must complete each homework assignment and submit it before the due date. Please enroll into your WebAssign section using the following Class Keys.

Section 003 key: okstate 3228 5806 Section 007 key: okstate 6810 1060 Section 009 key: okstate 5479 8460

WebAssign page

WebAssign guides and tutorials

MLSC stands for the Mathematics Learning Success Center located on the 4th floor of classroom building, and on the first floor of the library. You can receive invaluable tutoring help at MLSC.

Recommended Learning Method:

- Before we begin any section, read it in the textbook. Keep a list of questions you encounter while studying.
- When we cover this material in class, ask me any prepared or unprepared question and resolve any difficulty you might have had.
- Start working on the assigned homework immediately after we covered the necessary topics. It is helpful to read the text again before doing your homework, and in case you have difficulties with a problem.
- Write down a detailed solution of every problem. Use tutorial assistance at MLSC and/or come to my office hours if needed.

Missed work policy: A student shall be offered reasonable accommodation in the event that he or she misses a major assessment activity for a valid and documented reason. Examples of such reasons for making up exams are serious illness, family death, etc. Contact me immediately if you need to arrange for a make-up, and provide appropriate documentation.

Calculator: A graphing calculator is not required, but may be used at your preference. You can check out TI-83 or TI-83 Plus from the Department of Mathematics (MSCS 401) free of charge. However, no calculator is allowed on examinations.

<u>University Syllabus Attachment:</u> Contains drop deadlines and procedures, as well as many other important dates and university policies.

Tentative Schedule

TAT T	D					
Week	AND A STREET WAS ASSESSED AS A STREET,	Sec	Page	Topic		
1	M, Aug 20	7.1	453	Integration by Parts		
	W, Aug 22	7.1-2	453, 460	Integration by Parts and Trigonometric Integrals		
	F, Aug 24	7.2	460	Trigonometric Integrals		
2	M, Aug 27	7.3	467	Trigonometric Substitution		
	W, Aug 29	7.3	467	Trigonometric Substitution		
	F, Aug 31	7.4	473	Integration of Rational Functions by Partial Fractions		
3	M, Sep 3	Labor Day				
	W, Sep 5	7.4	473	Integration of Rational Functions by Partial Fractions		
	F, Sep 7	7.5	483	Strategy for Integration		
	M, Sep 10	7.8	508	Improper Integrals		
4	W, Sep 12	7.8	508	Improper Integrals		
	F, Sep 14	8.1	525	Arc Length		
5	M, Sep 17	8.2	532	Area of a Surface of Revolution		
	W, Sep 19	8.3	539	Applications to Physics and Engineering		
	F, Sep 21	<u>Review</u>				
6	M, Sep 24	Test 1 (7.1-7.5, 7.8, 8.1-8.3)				
	W, Sep 26	11.1	675	Sequences		
	F, Sep 28	11.1-2	675, 687	Sequences and Series		
7	M, Oct 1	11.2	687	Series		
	W, Oct 3	11.3	697	The Integral Test and Estimates of Sums		
	F, Oct 5	Fall Break				

8	M, Oct 8	11.3	697	The Integral Test and Estimates of Sums		
	W, Oct 10	11.4	Charles and the San San Constitute of	The Comparison Tests		
	Condition to have an experimental and an experimental	CONTRACTOR SECTIONS	STATE ALTER AND DESCRIPTION OF ANY ADMINISTRA	The Comparison Tests and Alternating Series		
9	M, Oct 15	Seather the section of	Author the Paris and Authorities of the	Alternating Series		
	W, Oct 17	11.6	714	Absolute Convergence and the Ratio and Root Tests		
	F, Oct 19	11.6	714	Absolute Convergence and the Ratio and Root Tests		
10	M, Oct 22	11.7	721	Strategy for Testing Series		
	W, Oct 24	<u>Review</u>				
	F, Oct 26	Test 2 (11.1-11.7)				
11	M, Oct 29	11.8	723	Power Series		
	W, Oct 31	11.8	723	Power Series		
	F, Nov 2	11.9	728	Representation of Functions as Power Series		
	M, Nov 5	11.10	734	Taylor and Maclaurin Series		
12	W, Nov 7	11.10	734	Taylor and Maclaurin Series		
166 4 15266811488468	F, Nov 9	10.1	621	Curves Defined by Parametric Equations		
	M, Nov 12	10.2	630	Calculus with Parametric Curves		
13	W, Nov 14	10.2	630	Calculus with Parametric Curves		
and the contraction	F, Nov 16	10.3	639	Polar Coordinates		
	M, Nov 19	10.3	639	Polar Coordinates		
14	W, Nov 21	Thanksgiving Holidays				
	F, Nov 23	Thanksgiving Holidays				
	M, Nov 26	Review				
15	W, Nov 28	Test 3 (11.8-11.10, 10.1-10.3)				
e vingrapera prima serva serv	F, Nov 30	10.4	650	Areas and Lengths in Polar Coordinates		
16	M, Dec 3	10.4	650	Areas and Lengths in Polar Coordinates		
	W, Dec 5	<u>Final Review</u>				
Name to the other or other	F, Dec 7	<u>Final Review</u>				
17	Final Exams					
	Section 003: Dec 12, 8-10am, in LSE 215					
	Section 007: Dec 14, 10am-12pm, in HSCI 236					
	Section 009: Dec 10, 10am-12pm, in CLB 202					

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