

Calculus II

MATH 2153-003

Time and Place: MWF 9:30-10:20 a.m. in LSE 215

Professor: Igor E. Pritsker

Office: MSCS 524

Office Hours: MWF 10:30-11:30

Office Phone: 744-8220

E-mail: igor@math.okstate.edu

Web: http://www.math.okstate.edu/~igor/math2153/math2153_fall2010.html

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

Grading: There will be 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. Please enroll into our WebAssign section using the Class Key **okstate 4577 9285**. You must complete each homework assignment and submit it before the due date. **Late work will not be accepted.**

WebAssign page

WebAssign guides and tutorials

MLRC stands for the Mathematics Learning Resource Center located on the 4th floor of classroom building. You can receive invaluable tutoring help at MLRC.

Recommended Learning Method:

- Before we start 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 MLRC and/or come to my office hours if needed.

Make-up Exams are given only in cases of serious illness or extreme emergency that prevents you from taking a test at the specified time. You have to contact me before the test and communicate all circumstances. Furthermore, you must appear in person, with supporting documents, to discuss the situation as soon as possible.

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.

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

Detailed Schedule

Week	Date	Sec	Page	Topic
1	M, Aug 23	7.1	453	Integration by Parts
	W, Aug 25	7.1-2	453, 460	Integration by Parts and Trigonometric Integrals
	F, Aug 27	7.2	460	Trigonometric Integrals
2	M, Aug 30	7.3	467	Trigonometric Substitution
	W, Sep 1	7.3	467	Trigonometric Substitution
	F, Sep 3	7.4	473	Integration of Rational Functions by Partial Fractions
3	M, Sep 6	7.4	473	Integration of Rational Functions by Partial Fractions
	W, Sep 8	7.5	483	Strategy for Integration
	F, Sep 10	7.8	508	Improper Integrals
4	M, Sep 13	7.8	508	Improper Integrals
	W, Sep 15	8.1	525	Arc Length
	F, Sep 17	8.2	532	Area of a Surface of Revolution
5	M, Sep 20	8.3	539	Applications to Physics and Engineering
	W, Sep 22	Review		
	F, Sep 24	Test 1 (7.1-7.5, 7.8, 8.1-8.3)		
6	M, Sep 27	11.1	675	Sequences
	W, Sep 29	11.1-2	675, 687	Sequences and Series
	F, Oct 1	11.2	687	Series
7	M, Oct 4	11.3	697	The Integral Test and Estimates of Sums
	W, Oct 6	11.3	697	The Integral Test and Estimates of Sums
	F, Oct 8	11.4	705	The Comparison Tests
8	M, Oct 11	11.4-5	705, 710	The Comparison Tests and Alternating Series
	W, Oct 13	11.5	710	Alternating Series
	F, Oct 15	Fall Break		
9	M, Oct 18	11.6	714	Absolute Convergence and the Ratio and Root Tests
	W, Oct 20	11.6	714	Absolute Convergence and the Ratio and Root Tests
	F, Oct 22	11.7	721	Strategy for Testing Series
10	M, Oct 25	Review		
	W, Oct 27	Test 2 (11.1-11.7)		
	F, Oct 29	11.8	723	Power Series
11	M, Nov 1	11.8	723	Power Series
	W, Nov 3	11.9	728	Representation of Functions as Power Series
	F, Nov 5	11.10	734	Taylor and Maclaurin Series
12	M, Nov 8	11.10	734	Taylor and Maclaurin Series
	W, Nov 10	10.1	621	Curves Defined by Parametric Equations
	F, Nov 12	10.2	630	Calculus with Parametric Curves
13	M, Nov 15	10.2	630	Calculus with Parametric Curves

	W, Nov 17	10.3	639	Polar Coordinates
	F, Nov 19	10.3	639	Polar Coordinates
14	M, Nov 22	10.4	650	Areas and Lengths in Polar Coordinates
	W, Nov 24	Thanksgiving Holidays		
	F, Nov 26	Thanksgiving Holidays		
15	M, Nov 29	10.4	650	Areas and Lengths in Polar Coordinates
	W, Dec 1	Review		
	F, Dec 3	Test 3 (11.8-11.10,10.1-10.4)		
16	M, Dec 6	10.5	654	Conic Sections
	W, Dec 8	10.5	654	Conic Sections
	F, Dec 10	Final Review		
17	F, Dec 17	Final Exam (LSE 215, 8-9:50 a.m.)		