

ANALYTIC GEOMETRY AND CALCULUS III

MATH 222 SYLLABUS

Spring 2009

COURSE COORDINATOR: F. R. Miller, Cardwell 208

TEXT: *Calculus* by James Stewart. 5th ed., Thomson-Brooks/Cole 2003.

PROCEDURES AND GRADING: Each week you are expected to attend two lectures and two recitation classes. The material to be covered in each lecture along with the corresponding exercise set is indicated on the attached assignment sheet. You should try to work the exercises before the next recitation class.

Your grade will be based on 650 points, as follows:

- a) 150 points for recitation class work. Your recitation instructor will explain to you how these points will be determined. **BE SURE YOU UNDERSTAND CLEARLY HOW THIS IS TO BE DONE IN YOUR RECITATION CLASS.**
- b) 100 points on each of three evening hour exams. These are held from 7:10 to 8:10 PM on February 12, March 12, and April 16.
- c) 200 points on the final exam. It is given on Wednesday, May 13, 11:50 AM to 1:40 PM. **EVERYONE MUST TAKE THE FINAL EXAM.**

Many exam questions will be modifications of homework problems or examples from the text or lectures. You should bring sharpened soft lead pencils and your KSU identification card to each exam. You may use calculators on the exams. A solved copy of each exam will be posted on the Calculus III bulletin board outside Cardwell 126 at the conclusion of the exam. Your hour exam papers, each marked with a numerical grade, will be returned to you in recitation class. Your final exam paper will be kept for at least one year by your recitation instructor. A grading scale for each exam will be posted after the exam. Individual grades will not be posted nor will grades be discussed over the phone.

There are no make-up exams. If you must miss one of the three hour exams for an extraordinary reason (for example, serious illness or University business), notify your recitation instructor as far in advance of the exam as possible. In this case there will be no make up exam, and your final letter grade will be determined by your other work in the course. If you miss an hour exam or the final exam without the consent of your recitation instructor, your grade on that exam will be zero. If you miss a second hour exam or the final exam for a justifiable reason approved by your recitation instructor, you will receive an INC for your course grade. You then have the option of taking the exams corresponding to the ones you missed in the following semester; your scores on the corresponding exams will be used in determining your final letter grade. Any exams not made up in this way will be assigned a grade of zero. Your recitation instructor will consider your total achievement in both semesters and submit a change of grade form for you at the close of the following semester.

ACADEMIC DISHONESTY: Plagiarism and cheating are serious offenses and may be punished by failure on the exam, paper or project, failure in the course and/or expulsion from the University. For more information refer to the academic dishonesty policy in 'Inside KSU'.

HELP SESSIONS: Help sessions will be held Monday through Thursday. A schedule with specific help session times will be posted on the Department of Mathematics General Information bulletin board across the hall from the Mathematics Office, Cardwell 138. Several instructors will be present to assist you. Tutors for Math 222 can be located

through the Mathematics Department or through numerous service organizations on campus.

GENERAL INFORMATION: Information relevant to this course will be posted on the Calculus 3 bulletin board outside Cardwell 126; (i.e., location of exams, solutions to exams, grading scales on exams, help session locations and schedules). Your recitation instructor will announce office hours (which are also posted) during which you may seek help.

If you have any condition, such as a physical or learning disability, which will make it difficult for you to carry out the work as I have outlined it or which will require academic accommodations, please notify me in the first two weeks of classes.

CALCULUS III PRACTICE PROBLEM SHEET – Spring 2009

Lecture Date	Section	Practice Problems
Jan 15 & Jan 20 recitations	12.1 12.2	<i>12.1:</i> 5,11,13,16; <i>12.2:</i> 7-25 (ODD), 26,37
Jan 21	12.3	3,5,7,15,20,21,23,37,45
Jan 26	12.4	2,3,14,15,16,26,27,29,33
Jan 28	12.5	3,4,5,8,21,23,26,28,33,39,54,62
Feb 2	12.6	3-8, 11-28
Feb 4	13.1, 13.2	<i>13.1:</i> 19-24; <i>13.2:</i> 3-19 (ODD), 36,37,38,39
Feb 9	13.3	5, 13-23 (ODD),36,37,39,47,48
Feb 11	Review for Exam 1	
	EXAM 1 is February 12 from 7:10PM to 8:10PM	
Feb 16	13.4	3,6,7,9,11,18,22,23,31-36
Feb 18	14.1, 14.2	<i>14.1:</i> 11-29 (ODD), 26; <i>14.2:</i> 27-34
Feb 23	14.3	13-38,47,52
Feb 25	14.4, 14.5	<i>14.4:</i> 1,3,17; <i>14.5:</i> 1,2,5,7,8,21,22,39
March 2	14.6	7-25 (ODD), 32,39,40
March 4	14.7	7,10,12,15,16,29
March 9	14.8	3,5,7,8,9,15,18,39
March 11	Review for Exam 2	
	EXAM 2 is March 12 from 7:10PM to 8:10PM	
March 23	15.1, 15.2, 15.3	<i>15.2:</i> 3-15 (ODD),24; <i>15.3:</i> 7-15 (ODD), 19-27 (ODD)
March 25	15.4	11,12,21,22,24,25,26
March 30	15.6, 15.7	<i>15.6:</i> 1,6,9; <i>15.7:</i> 5,7,13,14,16
April 1	15.7, 15.8	<i>15.7:</i> 20, 36,37; <i>15.8:</i> 9,11,18,19,24,28,29
April 6	16.1, 16.5	<i>16.1:</i> 1,2,3,5,6,11-14,29-32,33,34; <i>16.5:</i> 1-5
April 8	16.2	3,5,6,7,8,14,15,19,20,21,22,30,38,39,40
April 13	16.3, 16.5	<i>16.3:</i> 3,5,12-16,20,33; <i>16.5:</i> 13,14,15,17
April 15	Review for Exam 3	
	EXAM 3 is April 16 from 7:10PM to 8:10PM	
April 20	16.4	2,7,9,10,11,12,15,18
April 22	16.6	11-16,31,36,38,39,44,45
April 27	16.7	7,9,13,15,19,20,23,27,28
April 29	16.8	3,4,7,9,10,13
May 4	16.9	3,5,6,7,9,11,13,16
May 6	Review for Final Exam	
	Final Exam is Wednesday, May 13 from 11:50 AM to 1:40 PM	