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Syllabus for MA114-001, 002, 003 Fall 2007

MA114 is second semester calculus. Here is summary contact information as well as times and locations of class meetings and the like.

MA 114 Sections 1, 2, 3	Lecture	Recitation 001	Recitation 002	Recitation 003
Instructor	Paul Eakin	Joshua Strodbeck	Joshua Strodbeck	Fernando Camacho
Office	961 P.O.T.	902 P.O.T.	902 P.O.T.	702 P.O.T.
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E-Mail	paul@ms.uky.edu	jstrodtb@ms.uky.edu	jstrodtb@ms.uky.edu	camacho@ms.uky.edu
Office Hours	M12-1	XXX	XXX	XXX
Mathskeller Hours	MW10-11:30	XXX	XXX	XXX
Class	MWF 8 CB238	TR 8:00 CB 347	TR 9:30 CB 345	TR 3:30 FB 213

In addition to normal Office Hours and Mathskeller Hours, you can also make appointments to see any of the instructors -- just see them before or after class or send e-mail. Also, if you feel that a group problem session is preferable, just ask that it be organized.
The exam schedule is:

Exam	Date	Time	Location
Exam 1	Tues Sept 18, 2007	7:30-9:30 P.M.	TBA
Exam 2	Tues Oct 16, 2007	7:30-9:30 P.M.	TBA
Exam 3	Tues Nov 13, 2007	7:30-9:30 P.M.	TBA
Final Exam	Mon Dec 10, 2007	8:00-10:00 A.M.	CB238

Gerneralities: MA 114 (Calculus II) is a second course in calculus. Its prerequisites are MA 113 (Calculus I) and MA112 (trigonometry) with a grade of `C' or better. A high school trigonometry course with a grade of `C' or better will generally provide adequate preparation in trigonometry.

Credit: MA114 earns four credit hours. In addition, pass/fail credit of one hour can be be received by enrolling concurrently in MA 194. All students are required to attend all lecture and recitation sessions of MA 114 regardless of whether or not they are concurrently enrolled in MA 194.

Instructors and Class Meetings: All sections have a common lecturer in addition to a recitation instructor. Lectures are MWF 9:00-9:50 in CB 238. Recitations are TR at different times and places for different sections as shown in the table above. Each recitation session is 75 minutes in length. Attendance at all lectures and all recitation sessions for a section is required.

Textbook: The textbook is *Calculus* by James Stewart, fifth edition, Thomson Brooks/Cole 2003. The fourth edition textbook is substantially (over 90%) identical to the fifth edition and probably can be obtained at a substantially reduced cost.

Homework: This course uses a web based homework system called WHS. Students use the system to obtain homework assignments as well submit them for grading and, in general, to aid in communicating with their instructors as well as for tracking their progress in the class. There are typically five to seven assignments in preparation for each examination. Each student has a personal version of each assignment which must be completed before the assignment deadline. There are typically two recitation sessions and a lecture on the material before the final assignment deadline. The system records the number of problems which are submitted with a correct answer. If you submit an incorrect answer, you are allowed to submit again (as many times as needed) until you have the answer correct. There is no penalty for submitting an incorrect answer. Students are permitted and, in fact, encouraged to work together on the homework problems. Submissions of versions other than the student's personal version as well as submissions after the deadline (midnight of the due date) receive no credit.

Examinations: There will be three mid-term examinations and one final exam. The examinations will be scheduled as shown in the table above; they will be the same examinations for all three sections. Each of the examinations will be focused primarily on the material from the lectures, recitation, and homework for that exam. However, students are responsible for all material covered up to that exam, including material from previous exam periods. The final will be over all the material of the class.

Exams are paper tests and will be hand-graded by the instructors whose primary concern will be an evaluation of the understanding of the material communicated by the student's work. Students are both permitted and expected to use calculators on the examinations for routine arithmetic and built-in function evaluation. Sophisticated features may be used for such things as gaining intuition about a problem or cross-checking answers. However, `answers' simply taken as output from calculator routines will generally not receive any credit.

Course Topics: The following are the general topics planned for the individual examinations. These are subject to change, depending on the progress of the course.

Exam 1: The basic calculus of the exponential, logarithmic, and trigonometric functions and their inverses, indeterminant forms, L'Hospital's rule, integration by parts, and trigonometric integrals. This material is discussed in Chapter 7, the first part of Chapter 8, and the section on exponential growth and decay in Chapter 10 as well as in Appendix F.

Exam 2: Formal integration, trigonometric integrals, trigonometric substitutions, partial fractions, approximate integration, improper integrals, sequences, series, conditional and absolute convergence, tests for convergence of sequences and series. This material is discussed in Chapters 8 and 12 of the textbook.

Exam 3: Power series, tests for convergence of series, Taylor's formula, Taylor series and polynomials, parametric equations and the calculus of parametrically defined curves. This material is covered in Chapters 11 and 12 and Appendix F of the text.

Final Exam: The final examination will be over all the material of the course. New material will include calculus in polar coordinates, which is discussed in Chapter 11 of the text.

Grades: There are a total of **500 points** to be earned in the course. The grading scale is:

A At least 90% or at least 450 points

B At least 80% or at least 400 points

C At least 70% or at least 350 points

D At least 60% or at least 300 points

E Below 60% or below 300 points

These points can be earned through the following activities:

Exams and Final	385 points	77% of course grade
Online homework	40 points	8% of course grade
Attendance and participation	25 points	5% of course grade
Recitation	50 points	10% of course grade
Total	500 points	100% of course grade

Exams and Homework: Each exam counts **100** points including **90** points for the exam itself and **10** points for the on-line homework. The exam part of the grade is curved by adding a non-negative integer adjustment so as to make the overall mean score on the exam no smaller than 75%. The homework points are the portion of the homework problems that were answered correctly times 10, rounded to the nearest integer.

The calculation for the final exam is similar to that of the other exams except that there are 115 points for the final and 10 points for the homework, giving a total point count of 125.

Attendance and Participation: Attendance will be taken at each lecture and students will complete a weekly online course log in which they will report their status in the course and how they are spending the time they invest in the course. The survey must be completed each week between Thursday and Sunday in order to count. It should normally take no more than 5 minutes per week to complete.

There are 15 attendance points. Each student is allowed two unexcused absences from lecture. Each unexcused absence beyond those two deducts two attendance points. There are 10 course log points. Each student is allowed to miss one log submission. Each missed submission beyond this first one causes a deduction of 3 course log points.

Recitation: Recitation points will be assigned by the recitation instructor. The assignment will be on the basis of attendance, participation, and in-class graded work which may be done both individually and in groups.

Cheating Collaboration on the homework is not cheating.

Any form of representing the work of others as your own to gain academic credit or advantage is cheating. Helping someone else to cheat is cheating. For instance, signing the attendance sheet for someone else is cheating.

Individuals caught cheating will receive failing grades in the course and be reported to the proper university administrators.

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