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Syllabus for MA 110-001, 002, 005 Fall 2007

While MA 110 is not considered an advanced course, it is intended for students who are preparing for careers which require advanced mathematics. Consequently, the topics are carefully chosen to provide a solid foundation for further study, rather than a terminal course.

Students in this course should have taken a solid algebra II course in high school and should have an ACT math score of at least 23 (or some equivalent). Students who did not take a challenging mathematics course last year should expect to invest a substantial amount of initial effort in bringing their basic skills to the level of those that did.

Here is summary contact information as well as times and locations of class meetings and the like, as of the first day of class. **These are subject to change through the first two weeks of class.**

MA 110 Sections 1, 2, 5	Lecture	Recitation 001	Recitation 002	Recitation 005
Instructor	Paul Eakin	David Cook	David Cook	Joel Kilty
Office	961 P.O.T.	722 P.O.T.	722 P.O.T.	718 P.O.T.
Phone	257-3641 or 323-2849	xxx	xxx	257-6806
E-Mail	paul@ms.uky.edu	dcook@ms.uky.edu	dcook@ms.uky.edu	jkilty@ms.uky.edu
Office Hours	M12-1	XXX	XXX	XXX
Mathskeller Hours	MW10-11:30	XXX	XXX	XXX
Class	MWF 9: 00 PH 209	TR 8:00 CB 213	TR 9:30 SRB 201	TR 1:00 CB 212

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 preliminary exam schedule is:

Exam	Date	Time	Location
Exam 1	Fri Sept 21, 2007	9:00 - 9: 50 A.M.	PH 209
Exam 2	Fri Oct 19, 2007	9:00 - 9: 50 A.M.	PH 209
Exam 3	Fri Nov 16, 2007	9:00 - 9: 50 A.M.	PH 209
Final Exam	Mon Dec 10, 2007	8:00-10:00 A.M.	CB238

Any changes in the schedule will be announced no less than two weeks in advance of the affected exam.

Generalities: The formal course prerequisites are high school algebra II and an ACT math score of at least 23.

Credit: This course carries four semester hours credit.

Instructors and Class Meetings: All sections have a common lecturer in addition to a recitation instructor. Lectures are MWF 9:00-9:50 in Pense Hall, rm 209. 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 and is a factor in the course grade.**

Textbook: The textbook is *Precalculus with Trigonometry* by Avinash Sathaye. The text can be downloaded at no cost at [Ma 110 Text](#). A pre-printed abd bound copy of the 250 page text can be purchased for \$20 at Johnny Print, across from the Law School on Limestone Street.

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 : Chapters 1,2, 3 of the text: real and complex numbers, polynomials and rational expressions, the binomial theorem, linear equations and their solutions, the division algorithm for integers and polynomials, greatest common divisors and least common multiples, Chinese Remainder and Kuttaka problems

Exam 2 : Chapters 4-7 of the text. Introduction to analytic geometry and coordinate systems, changes of coordinates on the line and in the plane, complex numbers and linear transformations, distance, orthogonality, and isometry in the line and the plane. Linear and quadratic polynomials and models, plane algebraic curves, functions and inverses.

Exam 3 : Chapters 7-10. Circles, rational parameterization of the circle, intersections of circles and lines, construction of circles with prescribed condition, basic trigonometry and the trigonometric functions, Euler's formula and trig identities, radian measure, analysis of a polynomial curve at a point, algebraic calculation of tangents and derivatives for polynomials, the algebra of derivatives, linear and quadratic approximation, Taylor's Theorem for polynomials

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%. **In doing this calculation, "outliers" such as papers exhibiting no serious effort, are omitted.** 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.

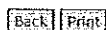
Cheating Collaboration on the homework is not cheating.

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 receive failing grades in the course and be reported to the proper university administrators.

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