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Syllabus for MA 110 Spring 2010

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 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 110-001	
Instructor	Megan Gler
Office	POT 706
Phone	257-6805 (Office)
E-Mail	mgier@ms.uky.edu
Office Hours	Monday: 10-11 AM (Mathskeller) Wednesday: 10-11 AM (POT 706) Thursday: 9-10 AM (POT 706) Other times by appointment.
Class	MWF 9:00-9:50 AM CB 337 (lecture) TR 8:00-8:50 AM CB 337 (recitation)

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.

Textbook: The textbook is *Precalculus with Trigonometry* by Avinash Sathaye. The text and course related handouts can be downloaded cost at [Ma 110 Text](#). A pre-printed and bound copy of the 260 page text along with some initial course related handouts can be purchased about \$21 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 submit them for immediate grading. The system is also used in communicating with their instructors and for tracking their progress in the homework assignments corresponding to each exam period are marked by letter codes A,B,C,D respectively.

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 submitted with a correct answer. If you submit an incorrect answer, you are allowed to submit again (as many times as needed) until you the correct answer. There is no penalty for submitting an incorrect answer. Students **are permitted and, in fact, encouraged to work together on the homework problems.**

Homework credit: Submissions of versions other than the student's personal version as well as submissions after the deadline (11:59 PM the due date) receive no credit.

Examinations: There will be three mid-term examinations and one final exam. Each of the examinations will be focused primarily on the material from the lectures, recitation, and homework from the corresponding exam period. However, students are responsible for all material covered up to that exam, including material from previous exam periods. The final will be comprehensive.

Exams are hand written 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 checking answers. However, 'answers' simply taken as output from calculator routines, without explanation or justification, will generally receive any credit.

Course Topics and Dates: The Course Calendar listing the material to be covered, relevant homework assignments, and homework due dates is available at

<https://www.mathclass.org/mc/Postings.aspx?noEdit=true&poId=661>

Note that this is not a rigid schedule and is subject to change, depending on the progress of the course. The dates and times of the exams however are very unlikely to change.

Final Exam: The final examination is from 8:00-10:00 AM on Monday, May 3, and it will cover all the material of the course.

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

- A 450-500 points
- B 400-449 points
- C 350-399 points
- D 300-349 points
- E 0-299 points

These points can be earned through the following activities:

Exams and Final	360 points	72% of course grade
Online homework	40 points	8% of course grade
Attendance and participation	25 points	5% of course grade
Recitation	75 points	15% of course grade
Total	500 points	100% of course grade

GRADE ARITHMETIC

NOTE WELL that the grade is a course grade, not just an exam grade. It is possible to have 90% average on the in-class examinations and make only a "D" in the course! ($.9 \times 360 = 324$) if one elects not to attend class, or attend recitation, or do the homework. This rarely happens.

but it is quite common for students to have middle "C" averages of approximately 75% on the in-class exams (270 points) and 95% of their homework, recitation, and attendance (133 points) and make a "B" in the course. It is a good exercise to calculate the lowest exam score you can make and still make an "A" in the course provided you collect all of the homework, attendance, and recitation points.

Exams and Homework: Each exam counts **100** points split as **90** points for the graded exam and **10** points for the on-line homework for the corresponding period.

Attendance and Participation: Attendance will be taken at each lecture. There are 25 attendance points, calculated as follows:

0-2 absences	25 points
3-4 absences	20 points
5-6 absences	15 points
7-8 absences	10 points
9-10 absences	5 points
11 or more absences	0 points

I will pass around an attendance sheet every day to keep track of absences. However, attending class involves more than just occupying a desk. I expect you to stay for the full duration of the class period, ask and answer questions, participate in class activities, and pay attention to the lecture. If you show up more than 5 minutes late, leave early, or spend class sleeping, talking, texting, or doing anything unrelated to the course, you will be considered absent for that day.

Recitation: Recitation periods are held each Tuesday and Thursday, giving you an opportunity to ask questions and practice solving problems. On most days, our schedule will include a brief review of the class lecture, a question and answer time, and an in-class activity, such as a worksheet or practice quiz. In each of the 29 recitation periods throughout the semester, you may earn up to 3 points. You will receive 1 point for simply attending, and the other 2 points will be based on the quality of your work for the day. You will notice that it is possible for you to earn up to 87 points in recitation, which exceeds the 75 points listed above. In other words, consistent attendance and good performance in recitation will result in extra credit.

Cheating Collaboration on, or receiving assistance on the online homework is specifically permitted and is **not** considered cheating.

Any representation of the work of others as your own in order 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 immediately be assigned failing grades in the course. They will then be reported to the proper university administrators. Refer to the current UK catalog for information on university disciplinary procedures.

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