

TO: 112 Instructors
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CV

Below is the syllabus to be used in MA 112 for the 2004 Fall Semester. (Note that during incomplete weeks, I have indicated the days on which classes are in session. And PS denotes a problem session.) The text is *Math 112: Trigonometry* by Vancil, and it requires a graphics calculator. The syllabus is written for two exams plus a final. However, if you wish to change the number or timing of the exams, you may do so. But please cover all of the material listed. Time constraints limit the class discussion of identities to the basics only. However, if you wish your students to have some familiarity with some of the other formulas, make an extra credit assignment.

Aug 25-27 (R) Review Section A.2 (angles & triangles)

Aug 30 - Sept 3 Section 2.1 (right triangle trig) and PS

Sept 7-10 Section 2.2 (solving right triangles)/assign 1.1* (Cartesian coordinate system) and Section 2.3 (angle measurement)

Sept 13-17 PS and Section 2.4 (trig ratios extended)

Sept 20-24 Section 2.5 (trig values) and PS

Sept 27-30 Sections 1.2 (equations in two variables) and 1.3 (using a graphing utility)

Oct 4-8 PS and EXAM

Oct 11-15 Sections 1.4 (function concept)/1.5 (graphing functions) and 1.5/1.6 (one-to-one functions, composition, and inverses)

Oct 18-22 PS/assign 3.1* (trig functions) and Section 3.2 (sine & cosine functions)

Oct 25-29 Sections 3.3 (sine and cosine graphs continued)/3.4 (tangent & reciprocal functions) and PS

Nov 1-5 (R) Section 3.5 (inverse trig functions)

Nov 8-12 Section 4.1 (basic identities) and PS

Nov 15-19 EXAM and Section 5.1 (law of sines)

Nov 22-24 (T) Section 5.2 (law of cosines)

Nov 29 - Dec 3 PS and Section 5.3 (vectors)

Dec 6-10 PS and review/wrap-up

* denotes reading assignment (ie, lecture on this material not required).