

MATH 113 SYLLABUS ~ Fall 2014

TEXT: Algebra and Trigonometry by Blitzer,
2ND Custom Edition for UMD

Optional: Student Solutions Manual

INSTRUCTOR: _____
OFFICE HOURS and ROOM: _____
EMAIL: _____

Math 113 is a 3-credit course designed primarily as preparation for calculus: Math 220, or Math 130. Students should be aware that credit can be granted for only one of: Math 113, 110 or 115, although it may be appropriate for some students to take some of these combinations of courses. Math 113 is a prerequisite for Math 130 or Math 220.

CALCULATORS: A scientific calculator is required (with exponential, log and trig functions). On tests, except for test 2, you may use only a scientific calculator (NO GRAPHING CALCULATORS). No calculator of any type will be allowed on test 2.

COURSE WEBPAGE: www.math.umd.edu/~jfstone Go to this link for this Course Syllabus with all textbook assignments, the sign-on link to the WebAssign online homework, tutoring schedules, links to the testbank (where you can access many past tests) and to LAS (Learning Assistance Services), and information about the Honor Code.

WEBASSIGN ONLINE HOMEWORK: You will log on to Webassign at: www.webassign.net/umd/login.html. **Use the same login as for Testudo.** It's easiest to use the link on the course webpage (see above). You will need to purchase Webassign access, which you can do online or at the bookstore. (You can use Webassign without purchasing it for 2 weeks). You will be able to save your work as you go, and will usually have 4 opportunities to try each answer before submitting it. Do the practice problems from the textbook first (see below assignments) and on the syllabus on the Course Webpage), to get a feel for the material, before working on the Webassign questions.

TEXTBOOK HOMEWORK: These exercises are on the syllabus below. You are expected to do assignments and check answers with the text (Answers to all odd-numbered problems are in the back of the text). Some of these assignments may be collected. You are expected to spend an average at least 2 hours on homework per hour of class time (this includes reviewing, doing problems, checking and correcting them and reading the new material for the next class).

TESTS AND QUIZZES: Tests and quizzes are based on ALL homework: Webassign AND the additional textbook problems on the syllabus. An average of one quiz per week will be given. Three hourly exams will be given (see dates below).

ABSENCES: Excused absences will be given only with documentation and only for valid medical reasons, university business, or appearances in court. Excused quizzes will not be used in computing the final grade. Make-up quizzes will not be given. Any unexcused quizzes or exams will be counted as a "0", including the final exam. Any student with a valid reason to be excused from an exam **must contact the instructor prior to the exam** and present documentation in the next class session attended. Messages may be left for most instructors via email, voice mail, or by calling the mailroom @ 301-405-5047.

HONOR CODE: The University has a nationally recognized Honor Code, administered by the Student Honor Council. The pledge, approved by the University Senate, reads: "I pledge on my honor that I have not given or received any unauthorized assistance on this assignment/examination." The Pledge should be handwritten and signed on all tests in this course. In conjunction with the University's Code of Academic Integrity, allegations of academic dishonesty will be reported to the Honor Council. As a student you are responsible for upholding these standards. Be aware of consequences of cheating and facilitation. More information can be found at <http://www.shc.umd.edu>.

HELPFUL WEBSITES: 1) www.math.umd.edu/~jfstone, the course webpage (see description above), 2) The Webassign login: <http://www.webassign.net/umd/login.html>. You'll use this to sign on to the webassign homework system, using the same login as for Testudo, as mentioned above. 3) www.math.umd.edu/undergraduate/resources for links to the testbank of past tests and information on tutoring. This link can also be accessed using the course webpage.

IN CASE OF EMERGENCY CLOSINGS: Check your email and check the course webpage for information. ****Be sure you have your current email registered with Testudo so that you will receive important information through Coursemail. We may also communicate through Canvas.**

HINTS FOR SUCCESS: Students are encouraged to make use of the many resources that are available. A schedule for drop-in tutoring in room 0301, math building, will be available a week or so after the start of classes. MATH SUCCESS tutoring is available in Oakland Hall, usually Sun - Thurs., 6-9pm, see: www.resnet.umd.edu/programs/math_success (X4-MATH). See the course webpage (above) for links to tutoring. You'll have a big advantage if you attend class regularly, do homework (check and correct it), and seek help when necessary (from textbook, instructor, friends, tutoring, Student Solutions Manual, tests in the testbank, etc.). Learning Assistant Services in the Shoemaker building can provide math counseling and workshops. Make use of all that is available to you.

COURSE EVALUATION: Students are encouraged to go to www.courseEvalUM.umd.edu to complete course evaluations toward the end of the semester.

IMPORTANT DATES: **Test 1:** Mon. Sept. 29; **Test 2:** Fri. Oct. 31 (**No calculators allowed**) ; **Test 3:** Wed., Dec. 3

Final Exam: Monday, December 15, 1:30 - 3:30, scheduled with the COMMON FINAL EXAMS. Rooms TBA (It will NOT be in your regular classroom).

GRADING:	homework	8%	Course Grade:	A: 90 - 100%
	quizzes	15%		B: 80 - 89%
	hour exams	3@15%. each		C: 70 - 79%
	final exam	32%		D: 60 - 69%

Your instructor may collect some of the following text assignments in addition to your graded WebAssign homework. **The “check-point” exercises throughout the text are recommended.** Answers to all check-point exercises are in the text. These assignments will prepare you for WebAssign problems, tests and quizzes. Check your work with the text and/or the Solutions Manual.

<u>DATE:</u>	<u>SECTION COVERED in class:</u>	<u>TEXTBOOK ASSIGNMENT DUE NEXT CLASS :</u>
Sept 3	P.2, P.3 exponents	p. 31: 3,5, 11-63,109; p.46: 1-19, 23-43, 55-73, 83-99,113, 119
	<i>Note: Students are also responsible for material in other sections of chap. P. Read/review sections P.1,P.4 and P.5.</i>	
Sept 5	P.6 rational expressions	p. 82: 3,5, 15,19,23, 33,43,53,61,65
Sept 8	1.2 linear eqns.	p. 112: 13,21,29,37,41-45, 51,55,57, 93. *Watch out for extraneous solutions!
Sept 10	1.3 modeling	p. 126: 21, 41,45,47,57,65,71,73. Read 1.5, know the quadratic formula.
Sept 12	1.5 quadratic eqns.	p. 152: 3,9,11,15,23,25,33,69,73,89,93,105,107,109,111,121.
Sept 15	1.5	p. 153: 131,142,147,151,177, Appendix B-11
	1.6 more eqns.	p. 168: 13,33,37 Due Mon. 9/17: Appendix B9
Sept 17	1.7 inequalities	p. 185: 1,3,9,11,35,39,45,55,57,127, 131. Where indicated, graph AND write in <i>interval notation</i> .
Sept 19	2.1 functions, graphs	p. 210: 1,3,11-21,27,31,35,39,45,49-63, 65,85,89,93,101,105,106.
Sept 22	2.2 more func., graphs	p. 223: 3,5,7,13,17,19,23-49,57,59, 71,73,83,85
Sept 24	2.3 eqns of lines	p. 239: 1-9,13,15,17,18,27-37,41,45-61,67,69,71,79,87 (For a summary, see Appendix B17,18)
	2.4 parallel, perpen. lines	p. 250: 7,9,17,21,25, 31,43 **Memorize the first 6 common graphs on p. 255 for a quiz after Test 1.
Sept 26	Review	See Appendix B1-3; B25-27. Review h.w., quizzes, and see past tests in the Testbank (see the link: www.math.umd.edu/~jfstone)
Sept 29	TEST I (P2-2.4)	*Only Scientific Calculators are allowed, NO GRAPHING CALCULATORS, NO CELL PHONES*
Oct 1	2.5,2.6 transformations domain	p. 266: 53-77, 81-93, 103,105; p. 279: 1-13, 17,19, 25,27
Oct 3	2.6 combinations of func.	p.279: 33,39,41,43,49,53,59,65,69,71, 97.
Oct 6	2.7 inverse func	p. 290: 1,7,10
	2.8 distance, midpt	p. 300: 5,9,11,15,23,27,37, 41,51,67,69,73.
	NOTE: NO CALCULATORS of any type WILL BE ALLOWED ON TEST II	
Oct 8	3.1 quadratic func.	p. 324: 1, 7, 11,15,17,21,27,37,41,57
Oct 10	3.1	p. 326: 71, Appendix B-19,20
Oct 13	3.2 polynomial func	p. 338: 1,3,7-19,23. In preparation for Test 2 (no calculators), do Appendix B15,16 (see ans. at end)
Oct 15	3.2	p. 338: 25,47,49,53,59,65,67,69,83,85,87.
Oct 17	3.3 rational func.	p. 357: 5,7, 15-20 all, 21,25,27,29,35
Oct 20	3.3	p. 357: 51,53,55,59,93,95, Appendix B-21
Oct 22	4.1 exponential func.	p. 376: 3,9-23,27,29,31,35-39,47,65.
Oct 24	4.2 log func.	p. 390: 1,3,7-15,19,23-29,35-41, 81-99
Oct 27	4.2	p. 390: 43-79
Oct 29	Review:	See Appendix B3-5, B-29,30 and the testbank (see the link: www.math.umd.edu/~jfstone)
Oct 31	TEST II (2.5 - 4.2)	*NO CALCULATORS OF ANY TYPE ARE ALLOWED ON TEST II*
Nov 3	4.3 prop. of logs	p. 401: 1,5,9,11,15,17,21,23,27,29-33, 41,43,51,53,63,71,73,77,103
Nov 5	4.4 expon., log eqns.	p. 412: 5,11,21,27,31,33,37,39, 53,55,57,59,67-73, 79,101,109,111
Nov 7	4.5 expon. growth, decay	p. 425: 1,3,5,21,23,25,27,33,35,37, Appendix B-23,24.
Nov 10	8.1 systems of eqns.	p. 654: 3,9,17,23,25,31,33,39,47,51,55,57,59,61,73,77,79
Nov 12	5.1 angles, radians	p. 450: 1-5,11,13,17,21,25,31,35,43,45,51-55,59,65,73, 87-93, 111
Nov 14	5.2 rt. triangle trig	p. 465: 1,7,9-13, 19, 23
Nov 17	5.2	p. 466: 41, 45,53-61, 75,79
Nov 19	5.3 trig func. of angles	p. 481: 7,11,12,14,16, 17,19,21,25,27,31,33
Nov 21	5.3	p. 481: 35,39,43,45,51, 63-69,75,77
Nov 24	5.5 graphs, sin, cos	p. 510: 3, 9,11,15,19,33, 37,45,55,75-81,85
Nov 26	5.6 Graph of tan	p. 523: 1,3,7,9 (plus webassign!)
Nov 28	THANKSGIVING	
Dec 1	Review	See B5-7, B31-34 (omit #24,25) and the testbank (see the link: www.math.umd.edu/~jfstone)
Dec 3	TEST III (4.3-5.6)	
Dec 5	5.8 applications	p. 551: 1, 3, 7, 13-16all, 29, 33, 41, 45, 47, 49, 51-55all, 57,58
Dec 8	6.5 trig eqns.	p. 612: 1, 5, 11, 15 (plus webassign!)
Dec 10	7.1 law of sines	p. 627: 3,7,11,47,49,59
Dec 12	Review :	See Appendix B 25-34 and the testbank (see the link: www.math.umd.edu/~jfstone)

***Uniform Final Exam: **Monday, December 15, 1:30 - 3:30.** See schedule for COMMON FINAL EXAMS.

Rooms TBA (It will NOT be in your regular classroom)