

MATH 113 SYLLABUS ~ Fall 2015

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 which is a prerequisite for calculus: Math 130, or Math 220. 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. Students should aim for a grade of A or B in this class. Data has shown that students who receive a grade of A or B in Math 113 tend to receive B/C grades in Math 220; students who receive a C in Math 113 are likely to receive a D in 220.

CALCULATORS: NO calculators will be allowed on tests in this course. A scientific calculator (with log, exponential and trig functions) will be required for some homework and classwork and possibly for some quizzes.

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. You can use Webassign without purchasing it for 2 weeks. It is best to pay after your schedule is finalized. 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 assignments below) 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. Any student with a valid reason to be excused from an exam **must contact the instructor prior to the exam**. Make-up quizzes will not be given. Any unexcused quizzes or exams will be counted as a “0”, including the final 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 Canvas/Elms for information. ****Be sure you have your current email registered with Testudo so that you will receive important information through Coursemail.**

HINTS FOR SUCCESS: You 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 (No calculators allowed on tests): **Test 1:** Wed., Sept. 30 ; **Test 2:** Fri., Oct. 30; **Test 3:** Wed., Dec. 2. **Final Exam:** Monday, December 14, 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%

MATH 113 ASSIGNMENTS

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 tests and quizzes, and online homework. Check your work with the text and/or the Solutions Manual.

**Unless otherwise specified, *do only the ODD-NUMBERED problems*

<u>DATE:</u>	<u>SECTION COVERED in class:</u>	<u>TEXTBOOK ASSIGNMENT DUE NEXT CLASS :</u>
Aug 31	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 2	P.6 rational expressions	p. 82: 3,5, 15,19,23, 33,43,53,61,65
Sept 4	1.2 linear eqns.	p. 112: 13,21,29,37,41-45, 51,55,57, 93. *Watch out for extraneous solutions!
Sept 7	LABOR DAY	
Sept 9	1.3 modeling	p. 126: 21, 41,45,47,57,65,71,73.
Sept 11	8.1 systems of eqns.	p. 654: 3,9,17,23,25,31,33,39,47,51,55,57,59,61,73,77,79. Read 1.5, know the quadratic formula.
Sept 14	1.5 quadratic eqns.	p. 152: 3,9,11,15,23,25,33,69,73,89,93,105,107,109,111,121.
Sept 16	1.5	p. 153: 131,142,147,151,177, Appendix B-11
Sept 18	nonlinear systems 1.6 more eqns.	worksheet due next class p. 168: 13,19,21,33,35
Sept 21	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> . Due Friday, 9/25: Appendix B9 (A review of P2,3,6 in preparation for test 1)
Sept 23	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 25	2.2 more func., graphs	p. 223: 3,5,7,13,17,19,23-49,57,59, 71,73,83,85
Sept. 28	Review	See Appendix B1-3; B25-27, #1-22. Review h.w., quizzes, and see past tests in the Testbank (see the link: www.math.umd.edu/~jfstone)
Sept 30	TEST I (P2-2.2) NO CALCULATORS of any type and NO CELL PHONES are allowed	
Oct 2	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.
Oct 5	2.5,2.6 transformations; domain	p. 266: 53-77, 81-93, 103,105; p. 279; 1-9, 17,19, 25,27
Oct 7	2.6 combinations of func.	p.279: 33,39,41,43,49,53,59,65,69,71, 97. *You will not be responsible for finding the domain in these exercises.

Oct 9	2.7 inverse func 2.8 distance, midpoint	p. 290: 1,7,10 p. 300: 5,9,11,15,23,27,37, 41,51,67,69,73. *Also do #67,69 by solving the system of equations algebraically.
Oct 12	3.1 quadratic functions	p. 324: 1, 7, 11,15,17,21,27,37,41,57
Oct 14	3.1	p. 326: 71, Appendix B-19,20
Oct 16	3.2 polynomial functions	p. 338: 1,3,7-19,23. In preparation for Test 2 (no calculators), do Appendix B15,16 (see answers at the bottom of page 2)
Oct 19	3.2	p. 338: 25,47,49,53,59,65,67,69,83,85,87.
Oct 21	3.3 rational functions	p. 357: 5,7, 15-20 all, 21,25,27,29,35
Oct 23	3.3	p. 357: 51,53,55,59,89,Appendix B-21
Oct 26	4.1 exponential func.	p. 376: 3,9-23,27,29,31,35-39,47,65.
Oct 28	Review:	See Appendix B3-5, B-27 #23,24,B-29,30 #1-13 and the testbank (see the link: www.math.umd.edu/~jfstone)
Oct 30	TEST II (2.3 - 4.1) NO CALCULATORS of any type and NO CELL PHONES are allowed	
Nov 2	4.2 log func.	p. 390: 1,3,7-15,19,23-29,35-41, 81-99
Nov 4	4.2	p. 390: 43-79
Nov 6	4.3 prop. of logs	p. 401: 1,5,9,11,15,17,21,23,27,29-33,43,51,53,57,59,63,71,73,77
Nov 9	4.4 expon., log eqns.	p. 412: 5,11,21,27,31,33,37,39, 53,55-63,67-73, 79,101,109,111
Nov 11	4.5 expon. growth, decay	p. 425: 1,3,5,21,23,25,27,33,35,37
Nov 13	4.5	Appendix B-23,24.
Nov 16	5.1 angles, radians	p. 450: 1-5, 21-27,43,45,51-55,59,65,87
Nov 18	5.2 rt. triangle trig	p. 465: 1,7,9-13, 19, 23, 41, 45,53-57, 75,79
Nov 20	5.3 trig func. of angles	p. 481: 7,11,12,14,16, 17,19,21,25,27,31,33
Nov 23	5.3	p. 481: 35,39,43,45,51, 63-69,75,77
Nov 25	5.5 graphs, sin, cos	p. 510: 3, 9,11,15,19,33,37,45,55,85
Nov 27	THANKSGIVING	
Nov 30	Review	See B5-7, B31-34 (omit #24,25) and the testbank (see the link: www.math.umd.edu/~jfstone)
Dec 2	TEST III (4.2-5.5) NO CALCULATORS of any type and NO CELL PHONES are allowed	
Dec 4	5.6 Graph of tan	p. 523: Sketch $y = \tan(x)$. State x-intercepts and asymptotes where $-\pi \leq x \leq \pi$.
Dec 7	5.8 applications	p. 551: 1, 3, 7, 13-16all, 29, 33, 41, 45, 47, 49, 51-55all, 57
Dec 9	6.5 trig eqns.	p. 612: 1, 5, 11, 15 (plus webassign!)
Dec 11	Review :	See Appendix B 25-34 and the testbank (see the link: www.math.umd.edu/~jfstone)

*****Uniform Final Exam: Monday, December 14, 1:30 - 3:30. See schedule for COMMON FINAL EXAMS.**
Rooms TBA (It will NOT be in your regular classroom). NO CALCULATORS of any type and NO CELL PHONES are allowed.