

MATH 113 SYLLABUS ~ Fall 2017

TEXT: Algebra and Trigonometry by Blitzer,
3rd Custom Edition for UMD **OR** the etext
available in MyMathLab (see below) **OR**
Algebra and Trigonometry, Blitzer, 5th ed.

INSTRUCTOR: _____

OFFICE HOURS and ROOM: _____

Optional: Student Solutions Manual

EMAIL: _____

Math 113 is a 3-credit course which is a prerequisite for calculus, Math 120. Students should be aware that credit can be granted for only one of: Math 107, 113, 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 120; students who receive a C in Math 113 are likely to receive a D in 120.

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 possibly for some quizzes.

COURSE WEBPAGE: www.math.umd.edu/~jfstone Go to this link for this Course Syllabus with all textbook assignments, information on MyMathLab 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.

MY MATH LAB ONLINE HOMEWORK: You will need an access code for MML. MML includes all online homework assignments, along with the etext. An access code comes with textbooks purchased at the University Bookstore, or you can buy it separately from the bookstore, or you can buy it when you register using a credit card or PayPal. You will access MyMathLab by:

1. Go to www.pearsonmylabandmastering.com;
2. Under Register, select Student;
3. Confirm you have the information needed, then select OK! Register now;
4. Enter your instructor's course ID, which your instructor will give you, and Continue;
5. Enter your existing Pearson account username and password to Sign In. You have an account if you have ever used a Pearson MyLab & Mastering product, such as MyMathLab, MyITLab, MySpanishLab, MasteringBiology or MasteringPhysics. If you don't have an account, select Create and complete the required fields;
6. Select an access option. Enter the access code that came with your textbook or was purchased separately from the bookstore. You can also use a credit card or PayPal account and pay online. ***Note that you can use MyMathLab free for two weeks.
7. From the You're Done! page, select Go To My Courses.
8. On the My Courses page, select the course name Math 113 Section xxxx to start your work.

Online homework will be due Tuesday and Friday mornings at 9:00 am. You can access each assignment more than a week prior to the due date. **You are encouraged to do the work early in order to be ready for quizzes! You will be able to save your work as you go, and will usually have 4 opportunities to try each answer before submitting it. Quizzes and tests will be totally based on the online AND the text homework on the syllabus. This video may help you access MyMathLab: <https://m.youtube.com/watch?list=PL2B3F3F1E35931DD0&v=7lqv93pFrWY>

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). Do **ONLY** the odd numbered problems unless otherwise indicated. The textbook homework for a section covered in class is due the next class. 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/skimming the new material for the next class).

TESTS AND QUIZZES: Tests and quizzes are based on ALL homework: MyMathLab AND the additional textbook problems on the syllabus. An average of one quiz or more 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.

To see university policies and resources, go to: <http://www.ugst.umd.edu/courserelatedpolicies.html>.

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>.

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: reslife.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 (X4-7693) 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. You'll be notified by email when evaluations are open.

IMPORTANT DATES (No calculators allowed on tests): **Test 1:** Wed., Sept. 27 ; **Test 2:** Fri., October 27; **Test 3:** Wed., Nov. 29. **Final Exam:** Wed., Dec. 13, 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%

****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 28	P.2, P.3 exponents	P2: #7,9,23-41,49,55,63,107,109; P3: 1-9, 15,19,27,37,43, 45,85,89,95, 97,99,113, 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>		
Aug 30	P.6 rational expressions	#1,3,11,23,25,47,55,59,77,85
Sept 1	1.2 linear eqns.	#21,27,43,49,55,57 *Watch out for extraneous solutions!
Sept 4	LABOR DAY	
Sept 6	1.3 modeling	#43,47,48,65,74 Also: Read 1.5, know the quadratic formula.
Sept 8	1.5 quadratic eqns.	#5,23,65,89,107
Sept 11	1.5	#144,147,153, 179 and do: Appendix B p. 11
Sept 13	8.1 systems of eqns.	#3,5,25,62,73
Sept 15	8.4 nonlinear systems	#1,19,62
Sept 18	1.6 more eqns. 1.7 inequalities	#12,15,21,33 #37,43,57. Where indicated, graph AND write in <i>interval notation</i> . Due Fri., 9/22: Appendix B9 (A review of P2,3,6 in preparation for test 1)
Sept 20	1.7,2.1 functions, graphs	1.7: #39,126. 2.1: # 13,17,31,67,69,71,73,89
Sept 22	2.2 more func., graphs	#23,27,35(g), 36(h),44,57
Sept 25	Review	See Appendix B1-3; Midterm Reviews on Appendix B pp. 33-36, #1-22; p.40 #14,15 Review h.w., quizzes, and see past tests in the Testbank (see the link: www.math.umd.edu/~jfstone)
Sept 27	TEST I (P2-2.2)	NO CALCULATORS of any type and NO CELL PHONES are allowed
Sept 29	2.3 eqns of lines 2.4 parallel, perpen. lines	#17,21,37,53,55,63,71,79 (For a summary, see Appendix B pp. 21-22) #7,9,19,7,31,43 **Memorize the first 6 graphs of common functions at the beginning of section 2.5.
Oct 2	2.5,2.6 transformations; domain	2.5: #63,71,86; 2.6: #9,19
Oct 4	2.6 combinations of func.	#33,41,43,63,65. *You will not be responsible for finding the domain in these exercises.
Oct 6	2.7 inverse func 2.8 distance, midpoint	#1,7,10 #5,15,21,37,43,49,69,73.
Oct 9	3.1 quadratic functions	#19,35,47
Oct 11	3.1	#65,71, 73 and do: Appendix B p. 23-24
Oct 13	3.2 polynomial functions	#1,3,7-17,21. In preparation for Test 2 (no calculators), do Appendix B17-19 (see answers on page B19)
Oct 16	3.2	#25,47,49,59,83,85,87.

Oct 18	3.5 rational functions	#5,13,19, 21,23,27,33
Oct 20	3.5	#37,39,59,71,100. Do Appendix B p. 25 in preparation for the next class.
Oct 23	4.1 exponential func.	#29,32,35,39
Oct 25	Review:	See Appendix B pp. 3-5, and Midterm Reviews on <u>B pp. 36 #23-24, B37-38 #1-13</u> and the testbank (see the link: www.math.umd.edu/~jfstone). Review worksheets pp. B17-19, B23-24.
Oct 27	TEST II (2.3 – 4.1)	NO CALCULATORS of any type, NO CELL PHONES are allowed
Oct 30	4.2 log func.	#11,21,23,25,29,31,59,71,75,77,87,91,95
Nov 1	4.3 prop. of logs	#33,43,49,61,75
Nov 3	4.4 expon., log eqns.	#7,13,21,29,65,69 ,81,111,113
Nov 6	4.5 expon. growth, decay	#1,7,11,23,35
Nov 8	4.5	Appendix B pp. 27-28
Nov 10	5.1 angles, radians	#23,26,27,45,51,53,61
Nov 13	5.2 rt. triangle trig	#7,15,23,57,61
Nov 15	5.2	#51,77
Nov 17	5.3 trig func. of angles	#5,10,11,16,25
Nov 20	5.3	#37,43,67,77
Nov 22	THANKSGIVING	
Nov 27	Review	See Appendix B pp. 5-7, and Midterm Reviews on <u>B pp. 38 #14-15; B39-41 #1-23</u> and the testbank (see the link: www.math.umd.edu/~jfstone)
Nov 29	TEST III (4.2-5.3)	NO CALCULATORS of any type, NO CELL PHONES are allowed
Dec 1	5.5 graphs, sin, cos	#13,39
Dec 4	5.6 Graph of tan 5.8 applications	Sketch $y = \tan(x)$. State x-intercepts and asymptotes where $-\pi \leq x \leq \pi$. #5,13
Dec 6	5.8 applications	#43,49,57
Dec 8	6.5 trig equations	#3,5,19
Dec 11	Review :	See Midterm Reviews, Appendix B 33-41 and the testbank (see the link: www.math.umd.edu/~jfstone)

***Uniform Final Exam: **Wed., December 13, 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.