# MATH 113 SYLLABUS ~ Spring 2018

**TEXT:** Algebra and Trigonometry by Blitzer, 6th edition OR The ETEXT available in MyMathLab

Optional: Student Solutions Manual

INSTRUCTOR:_____
OFFICE HOURS and ROOM:_____

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:** MML includes the etext and all online homework assignments. You will need an access code for MML. An access code comes with textbooks purchased at the University Bookstore, or you can buy it when you register using a credit card or PayPal. You can also buy it separately from the bookstore. 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 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. exam. Any student with a valid reason to be excused from an exam **must contact the instructor prior to the** 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., Feb. 21 ; **Test 2:** Wed., March 28; **Test 3:** Fri. April 27. **Final Exam**: Sat. May 12, 1:30 - 3:30, scheduled with the COMMON FINAL EXAMS. Rooms TBA (It will NOT be in your regular classroom).

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| **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** **Spring 2018**

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

| **DATE:** | **SECTION COVERED in class:** | **TEXTBOOK ASSIGNMENT DUE NEXT CLASS :** |
|---|---|---|
| Jan 24 | P.2, P.3 exponents | P2: #7,9,23-41,49,55,63,107,109; P3: 1-9, 15,19,27,37,43, 45,55,57,59,65,85,89,95, 97,99,113, 119 |
| | *Note: Students are also responsible for material in other sections of chap. P. Read/review sections P.1,P.4 and P.5.* | |
| Jan 26 | P.6 rational expressions | #1,3,11,23,25,47,55,59,77,85 |
| Jan 29 | 1.2 linear eqns. | #21,27,43,49,55,57 *Watch out for extraneous solutions! |
| Jan 31 | 1.3 modeling | #25,29,30,47,56 Also: Read 1.5, know the quadratic formula. |
| Feb 2 | 1.5 quadratic eqns. | #5,23,65,89,107 |
| Feb 5 | 1.5 | #144,147,153, 179 and do: **Appendix B p. 11** |
| Feb 7 | 8.1 systems of eqns. | #3,5,25,62,73 |
| Feb 9 | 8.4 nonlinear systems | #1,19,62 |
| Feb 12 | 1.6 more eqns. | #12,15,21,33 |
| | 1.7 inequalities | #37,43,57. Where indicated, graph AND write in *interval notation.* Due Fri., 2/16**:** **Appendix B9** (A review of P2,3,6 in preparation for test 1) |
| Feb 14 | 1.7,2.1 functions, graphs | 1.7: #39,126. 2.1: # 13,17,31,67,69,71,73,89 |
| Feb 16 | 2.2 more func., graphs | #43,47, 51(g), 52(h), 55,73 |
| Feb 19 | 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 ) |
| Feb 21 | **TEST I** (P2-2.2) NO CALCULATORS of any type and NO CELL PHONES are allowed | |
| Feb 23 | 2.3 eqns of lines | #17,21,37,53,55,63,71,79 (For a summary, see **Appendix B pp. 21-22**) |
| | 2.4 parallel, perpen. lines | #7,9,19,31,43 **Memorize the first 6 graphs of common functions at the beginning of section 2.5. |
| Feb 26 | 2.5,2.6 transformations; domain | 2.5: #63,71,85; 2.6: #9,19 |
| Feb 28 | 2.6 combinations of func. | #9,19,33,41,43,63,65. *You will not be responsible for finding the domain in these exercises. |
| March 2 | 2.7 inverse func | #1,7,10 |
| | 2.8 distance, midpoint | #5,15,21,37,43,49,69,73. |
| March 5 | 3.1 quadratic functions | #19,35,47 |
| March 7 | 3.1 | #65,71, 73 and do: **Appendix B p. 23-24** |
| March 9 | 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) |
| March 12 | 3.2 | #25,29,45,59,83,85,87. |

March 14 3.5 rational functions #5,11,13,17,19, 21,23,27,33

March 16 3.5 #37,39,59,71,100. Do **Appendix B p. 25** in preparation for the next class.

March 19-23 SPRING BREAK

March 26 Review: See Appendix B pp. 3-5, and Midterm Reviews on B pp. 36 #23-24, B37-38 #1-12 and the testbank (see the link: www.math.umd.edu/~jfstone). Review worksheets pp. B17-19, B23-24.

March 28 **TEST II** (2.3 – 3.5) NO CALCULATORS of any type, NO CELL PHONES are allowed

March 30 4.1 exponential func. #29,32,35,39

April 2 4.2 log func. #11,21,23,25,29,31,59,71,75,77,87,91,95

April 4 4.3 prop. of logs #11,29,33,43,49,61,75

April 6 4.4 expon., log eqns. #7,13,21,29,65,69 ,81,111,113

April 9 4.5 expon. growth, decay #1,7,11,23,35

April 11 4.5 **Appendix B pp. 27-28**

April 13 5.1 angles, radians #23,26,27,45,51,53,61

April 16 5.2 rt. triangle trig #7,15,23,57,61

April 18 5.2 #51,77

April 20 5.3 trig func. of angles #5,10,11,16,25

April 23 5.3 #37,43,67,77

April 25 Review See Appendix B pp. 5-7, and Midterm Reviews on B pp. 38 #13-15; B39-41 #1-23 and the testbank (see the link: www.math.umd.edu/~jfstone )

April 27 **TEST III** (4.1-5.3) NO CALCULATORS of any type, NO CELL PHONES are allowed

April 30 5.5 graphs, sin, cos #13,39

May 2 5.6 Graph of tan Sketch y = tan(x). State x-intercepts and asymptotes where $-\pi \le x \le \pi$.
5.8 applications #5,13

May 4 5.8 applications #43,57

May 7 6.5 trig equations #3,5,19

May 9 Review : See Midterm Reviews, Appendix B 33-41 and the testbank (see the link: www.math.umd.edu/~jfstone )

*****Uniform Final Exam: SAT. MAY 12, 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.