**MATH 113 SYLLABUS ~ Spring 2016**

**TEXT:** Algebra and Trigonometry by Blitzer, 3rd 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, information on linking MyMathLab online homework with Canvas, 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 access MyMathLab in Canvas by selecting MyLab & Mastering on the left, then select the Pearson link. You’ll create an account. If you have the access code that came with your text, enter it, then you should be set. If you don’t have an access code, you can purchase one online. Online homework will be due Tuesday and Friday mornings at 9:00 am, and 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. Do the practice problems from the textbook first (see assignments below), right after covering the section in class, before working on the online homework questions. Quizzes and tests will be totally based on the online and the text homework. This video may answer some questions for you:** https://youtu.be/0sPttXvkkdU

**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). The homework for a section covered in class is due the next class. You’ll be able to ask questions if there were trouble spots, aiding in the understanding of the online homework. 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: 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. 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.

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: Mon., Feb. 22; Test 2: Wed., March 30; Test 3: Wed., April 27. Final Exam: Thursday, May 12, 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 Textbook Assignments**

Your instructor may collect some of the following text assignments in addition to your graded online 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**

<table>
<thead>
<tr>
<th>DATE</th>
<th>SECTION COVERED in class:</th>
<th>TEXTBOOK ASSIGNMENT DUE NEXT CLASS:</th>
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<tbody>
<tr>
<td>Jan 27</td>
<td>P.2, P.3 exponents</td>
<td>p. 33: 7,9,23-41,49,55,63,107,109; p.48: 1-9, 15,19,27,37,43, 45,85,89,95, 97,99,113, 119</td>
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*Note: Students are also responsible for material in other sections of chap. P. Read/review sections P.1,P.4 and P.5.*

| Jan 29 | P.6 rational expressions | p. 86: 1,3,11,23,25,47,55,59,77,85 |
| Feb 1  | 1.2 linear eqns.          | p. 107: 21,27,43,49,55,57 *Watch out for extraneous solutions! |
| Feb 3  | 1.3 modeling              | p. 121: 43,47,48,65,74 Also: Read 1.5, know the quadratic formula. |
| Feb 5  | 1.5 quadratic eqns.       | p. 149: 5,23,65,89,107 |
| Feb 8  | 1.5                       | p. 151: 144,147,153 and do: Appendix B-11 |
| Feb 10 | 8.1 systems of eqns.      | p. 615: 3,5,25,62,73 |
| Feb 12 | 8.4 nonlinear systems     | p. 628: 1,19,59,62 |
| Feb 15 | 1.6 more eqns.            | p. 167: 12,15,21,33 |
|        | 1.7 inequalities          | p. 184: 37,43,57. Where indicated, graph AND write in interval notation. Due Fri., 2/19: Appendix B9 (A review of P2.3,6 in preparation for test 1) |
| Feb 19 | Review                    | See Appendix B1-3; B33-36, #1-18, 19a,c,20. Review h.w., quizzes, and see past tests in the Testbank (see the link: www.math.umd.edu/~jfstone) |
| Feb 22 | **TEST I** (P2-2.1) NO CALCULATORS of any type and NO CELL PHONES are allowed |
| Feb 24 | 2.2 more func., graphs    | p. 226: 23,27,35(g), 36(h),44,58,60 |
| Feb 26 | 2.3 eqns of lines         | p. 243: 17,21,37,53,55,63,71 (For a summary, see Appendix B21-22) |
|        | 2.4 parallel, perpen. lines | p. 254: 7,9,19,7,31,43 **Memorize the first 6 common graphs on p. 259. |
| Feb 29 | 2.5,2.6 transformations; domain | p. 270: 63,71,86; p. 285: 9,19 |
| March 2| 2.6 combinations of func. | p.285: 33,41,43,63,65. *You will not be responsible for finding the domain in these exercises. |
| March 4| 2.7 inverse func          | p. 297: 1,7,10 |
|        | 2.8 distance, midpoint    | p. 307: 5,15,21,37,43,49,69,73. |
| March 7| 3.1 quadratic functions   | p. 331: 19,35,47 |
March 9  3.1  p. 332:  71, 73 and do: **Appendix B23-24**

March 11  3.2 polynomial functions  p. 348:  1,3,7-19,23. In preparation for Test 2 (no calculators), do Appendix B15,16 (see answers at the bottom of page 2)

***SPRING BREAK  March 13-20***


March 23  3.5 rational functions  p. 368:  5,10,11,16,17

March 25  3.5  p. 368:  37,39,59,71,100.  Do **Appendix B25** in preparation for the next class.

March 28  Review:  See Appendix B3-5, B35-36 #19-24, B37-38 #1-12 and the testbank (see the link: www.math.umd.edu/~jfstone)

March 30  **TEST II** (2.2 – 3.5) NO CALCULATORS of any type, NO CELL PHONES are allowed

April 1  4.1 exponential func.  p. 389:  29,32,35,39

April 4  4.2 log func.  p. 403:  11,23,26,31,59,71,77,87,91,95

April 6  4.3 prop. of logs  p. 415:  5,11,29,33,43,49,61,75

April 8  4.4 expon., log eqns.  p. 427:  7,13,21,29,65,69,81,111,113

April 11  4.5 expon. growth, decay  p. 442:  1,7,11,23,35

April 13  4.5  **Appendix B27-28**

April 15  5.1 angles, radians  p. 467:  23,26,27,45,51,53,61

April 18  5.2 rt. triangle trig  p. 483:  7,15,23,57,61

April 20  5.2  p. 483:  51,77

April 22  5.3 trig func. of angles  p. 498:  5,10,11,16,25

April 25  Review  See B5-7, B38 #13-15; B39-41 (omit #24,25,26) 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 29  5.3  p. 498:  37,42,68,77

May 2  5.5 graphs, sin, cos  p. 527:  13,39

May 4  5.6 Graph of tan  Sketch  y = tan(x).  State x-intercepts and asymptotes where  \(-\pi \leq x \leq \pi\).

5.8 applications  p.552:  5,13

May 6  5.8 applications  p. 552:  43,49,57

6.5 trig equations  p. 574:  3,5,19

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

***Uniform Final Exam: **Thursday, 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.