

**Tentative Calendar, Fall 2009 Math1113J Precalculus, 4-5:15pm UH-246**

**Text: Precalculus, Functions and Graphs, with WebAssign, Swokowski *et al*, unused ASU custom ed. from ASU bookstore and any TI-83 or TI-84 calculator, no substitutes**

**August**

| T   | Th   |
|---|--|
| [18] Read all pipeline files. Start the book pretest. Expand, Factor, Divide (Long and synthetic) nonlinear inequal., lines, Pyth. Thm, Test 1 Material Starts here: <b>Def. of function</b> , graphs, domain, range, inverses, 1-to-1, restricted domain, principal value, Newton's Diff., piecewise, incr.-decr., intercepts, comp., even-odd | [20] Turn in book pretest problems 1 - 6 ( <i>Optional review: 2.4:1, 7, 19, 21, 25, 65, 71 4.1: 1, 3, 7, 9, 19, 29, 43, 45, 47</i> ) Calculator, viewing rectangle, <b>2.5:</b> 5, 34, 38, 63 Start Transformations handouts. Transformation Homework 1 worksheet in the back of the text. Even-Odd functions Polynomials, Int. Val. Thm., <b>3.1:</b> 6, 20, 35, 36,45 Memorize: 209 |
| [25] Turn in book pretest problems 7 - 10. Continue Transformations: Homework 2 worksheet. Div. Alg., Remain. Thm., Factor Thm. <b>3.2:</b> 2, 14, 20, 32, 43, 49 Fund. Thm. Of Al., complete fact. Thm., exact zeroes thm., <b>3.3:</b> 2, 6, 16 Memorize: 220, 221, 227, 228, 231   | [27] Meet in AH-N132 Transformation Homework 3 worksheet, Descartes' rule of signs, up-low bounds, <b>3.3:</b> 30 <b>3.4:</b> 4, 12, 20, 33 total analysis on $f(x) = 2x^4 - 5x^3 - x^2 - 5x - 3$ , Descartes Rule of Signs, Rational Zeroes, Upper/Lower Bounds, factor, intercepts, extrema, graph using an appropriate scale  |

**September**

|  |  |
|--|--|
| [1] assigned worksheets due, <b>quiz</b> , asymp <b>3.5:</b> 3, 11 Review (Ch 3 Review pages 275 – 277: 7, 8, 21, 27)  | [3] <b>Test 1</b> on functions, polynomials, applied [New Material: Work Zeno in course files for Thursday]  |
| [8] <b>Student Holiday</b>   | [10] Turn in Zeno <b>4.2:</b> 11, 31, 41 finding Balance <b>4.3:</b> 13, 18, 39, 40 <b>4.4:</b> 1, 3, 16, 37, 39 <b>4.5:</b> 6 Memorize properties 315, 322, 330, 339 Start Text Worksheet |
| [15] <b>4.5:</b> 11, 25 <b>4.6:</b> 3, 6, 11 Finish logarithm worksheet in text  | [17] Turn in log worksheet <b>quiz 4.6:</b> 25, 31,43, 47, 48 <b>Chapter 4 Review p. 352 – 355:</b> 57, 58, 59   |
| [22] Review (Chapter 4 Review p. 352 – 355: 9, 11, 17, 19, 21, 23, 25, 27, 35, 39, 45, 51)                             | [24] <b>Test 2</b> on logs and exp (Read 5.1 and 5.2 for Monday.)  |
| [29] <b>5.1:</b> 3, 35,37, 43, 44,47, 48, <b>5.2:</b> 8, 12, 22 memorize 372, 375, 377 Make trig note cards from files |  |

**October**

|   |   |
|---|---|
| [6] Note card Competition <b>5.4:</b> 4, 5, 10, 11 <b>5.7:</b> 25, 34 <b>Chapter 5 Review p. 452 – 459:</b> 1, 2, 3, 5, 6         | [1] <b>5.2:</b> 23, 80, 85, 89 <b>5.3:</b> 5, 10, 14  |
| [13] Review [Start trig table for graphs]   | [8] Quiz <b>5.7:</b> 45, 46 <b>Chapter 5 Review p. 452 – 459:</b> 22, 25, 27, 28, 61, 62 [Midterm Day is Mon. Oct. 12]                                |
| [20] Start Graph Project "to scale" <b>5.5:</b> 13, 18, 20, 29 <b>6.1:</b> 2, 5   | [15] <b>Test 3</b> on intro trig NO calculators! [Continue the trig table in the back of the text]  |
| [27] Speed quiz <b>5.6:</b> 59 <b>6.1:</b> 27, 37, 38 <b>6.6:</b> , 23, 24, 26, 33,39, 41 <b>5.7:</b> 35, 36 Finish graph project | [22] <b>5.5:</b> 42, 43 <b>5.6:</b> 12, 21, 29, 51 <b>6.1:</b> 16, 23, 25, Prin. Val. Intervals sine, cosine, tangent <b>6.6:</b> 1, 2, 6, 11, 13, 15 |
|   | [29] Turn in Graphs & Inverses Project. Review (Chpt 5 Rev. p. 452 – 459: 43, 45, 53 Chpt 6 Rev. p. 525 – 527: 1, 2, 12, 13, 59, 63, 71)              |

**November**

|   |  |
|---|--|
| [3] <b>Test 4</b> on trig graphs and inverse trigonometric functions and graphs, trigonometric identities | [5] <b>6.2:</b> 5, 7 <b>6.3:</b> 10, 17, 21, 24, 31 <b>6.4:</b> 2, 6 <b>Make remaining trig notecards and memorize</b> |
| [10] <b>6.2:</b> 11, 21 <b>6.4:</b> 8, 15, 34, 35 <b>6.6:</b> 17, 27, 28                                  | [12] <b>6.2:</b> 29, 37 <b>6.5:</b> 4, 27, 32, 35 <b>6.6:</b> 17, 18, 27, 28, 53, 54                                   |
| [17] <b>Chptr 6 Review p. 525 – 528:</b> 69, 70 <b>7.2:</b> 8, 11, 17                                     | [19] <b>7.1:</b> 2, 7, 12, 20  |
| [24] quiz, Review   | [26] Thanksgiving Holiday  |

**December**

|   |  |
|---|--|
| [1] <b>Test 5</b> on trig form., solve eq., law sines&cosines | [3] Final Review. Review old tests for final |
| [8] <b>Final Exam 6-8pm UH-246</b>                            |  |

J. Michelle Benedict, Office: AH-N331, 706- 667-4478 or leave messages at 706-737-1672

Office Hours: 1:00 – 2:30 on T, Th in Allgood Hall office

(Special times: 4:30 – 4:50 on M W and 5:25 – 5:45 T, Th in 2<sup>nd</sup> Floor Lounge of UH)

Other times by appointment. E-Mail: [mbenedic@aug.edu](mailto:mbenedic@aug.edu),

THERE WILL BE NO MAKE-UP TESTS FOR ANY REASON! Drop a test grade.

Best 4 tests = 2/3 grade, Comprehensive Final = 1/3 grade **NO SYMBOLIC CALCULATORS!**

## M. Benedict MATH 1113 CLASS RULES

**Read the pipeline course file on the class expectations.** Your new unused text: Precalculus, Functions and Graphs ASU custom edition by Swokowski, *et. al.* packaged with WebAssign and found in the ASU bookstore, and any version of the TI-83 or TI-84 calculators. Have these by the third class meeting or see me for help. **NO SYMBOLIC MANIPULATOR CALCULATORS like the TI-89.**

If you are an ASU Business Major preparing for Math 1220 known as applied or business calculus, then you do NOT need this class. (UGA does require this class for its business majors.) This class is mainly designed for science and math majors. If you are, for example, an Early Childhood or Art major just need another math class after college algebra then you should be taking Math1120 contemporary mathematics or Math2210 statistics instead. If you are a science major then your career may depend on this class's material. A scientist with a poor understanding of precalculus could even be dangerous. We want you well-prepared, competent, and successful. Precalculus will be very challenging yet rewarding, and I hope you will remember it with pride.

All of the homework problems listed after bold print sections and all projects on the syllabus will be due to be worked by the next class meeting. The textbook problems listed are not to be turned in unless otherwise indicated. Besides the syllabus problems, there are also graded homework problems to be turned in, many of which will be done using the online homework system WebAssign. You may not work with others on the graded homework problems like the pretest or computer homework. Many classes will begin with randomly selected students putting syllabus homework problems on the board, followed by questions from all homework. I may not answer all questions in order to have time to cover the new material. When you enter the classroom, have a seat away from all friends and interesting people, and get your questions organized. Don't help each other during class because it disturbs others. If it appears to me that you are having too much fun with a neighbor, I may move you to another location to preserve the academic atmosphere in the class. My classes are interactive and I ask a ton of questions as I teach. Be involved. Fill many, many notebooks with problems that you have worked and re-worked. Make many note cards with theorems, definitions, rules, etc., and memorize those facts as soon as they occur in the sections assigned. You cannot put off the memory work. To prepare for a test, put suggested practice test questions on note cards with the answers on the back then shuffle the deck and deal the cards, continuing through the deck until you have mastered the problems. Test 3 will not allow any calculators of any type. I recommend that you develop a study group of 2 or 3 people and attend the help sessions of the math lab, the times and locations of which will be posted on the math department website [www.aug.edu/mcs](http://www.aug.edu/mcs) and click on "Student Resources. In these groups, each student needs to have time explaining worked problems to others. You learn by teaching.

Read the introductory sections in your calculator manual to learn how to turn on your calculator, adjust the darkness of the screen, choose the correct mode (like DEC(base 10), Floating decimal place, etc.), and perform basic algebraic operations. You must bring it with you to all classes. There will be extra calculator training workshops at the beginning if you need extra help. Those sessions will be announced on pipeline.

I recommend that you develop a study group of 2 or 3 people and attend the help sessions of the Allgood Hall N337 Math Lab, the times will be posted on the math and computer science department website under student resources <http://www.aug.edu/mcs/sres/Welcome.html> and on the math lab door. In these groups, each student needs to have time explaining worked problems to others. You learn by teaching. Much of the first two days of material is considered to be review and will be covered at a VERY high speed.

There will be five tests given during the semester. Quizzes are for extra credit points. You will drop one of those five test grades. The best four grades will be averaged together for 2/3 of your course grade. The remaining 1/3 of your grade will be from the comprehensive final exam. Your grades will be returned to you within a week of taking the test and will therefore be on-time. If you miss that class, it is your responsibility to schedule a time to stop by my office to pick up

your test. **THERE WILL BE NO MAKE-UP TESTS FOR ANY REASON!** For documented (eg doctor's note) special cases, I will consider using parts of the comprehensive final exam to patch a missing grade at the end of the semester. It's "your nickel." Spend it wisely.