

## MATH 2200 Syllabus - Fall 2013

MWF 3:00 - 3:50 pm

**Instructor:** Bryan Bornholdt      **Office:** SNOW 138      **Phone:** 879-4256      **Email:** bornholdt@dixie.edu  
**Office Hours:** Tuesday and Thursday 9:30 am - Noon; other times by appointment

**REQUIRED TEXT:** *MATHEMATICS, A Discrete Introduction*, Edward Scheinerman, 3<sup>rd</sup> Edition

**COURSE PREREQUISITES:** Successful completion of Math 1210 with a C or higher within the past two years.

**COURSE OBJECTIVES:** All classes in mathematics at Dixie State College support the general education goals of the college. Within limitations imposed by the nature of mathematics (i.e., the dependency on prior learning and the need for content fluency) each class will:

- ♠ Require students to perform mathematical processes including fractions, percentages, decimals, proportions/ratios, algebraic equations and/or calculus techniques.
- ♠ Provide students with application problems that use a variety of methods including arithmetic, algebraic and geometric methods.
- ♠ Challenge students to make inferences from mathematical models that include formulas, graphs, and tables.
- ♠ Provide students with real-life applications that use a variety of mathematical functions.

**DMAIL:** Important class and college information will be sent to your Dmail email account. This information includes your DSC bill, financial aid/scholarship notices, notification of dropped classes, reminders of important dates and events, and other information critical to your success in this class and at DSC. All DSC students are automatically assigned a Dmail email account. If you don't know your user name and password, go to [www.dixie.edu](http://www.dixie.edu) and select Dmail, for complete instructions. You will be held responsible for information sent to your Dmail email, so please check it often.

**IMPORTANT DATES:** Go to <http://www.dixie.edu/reg/?page=calendar>

**CLASS ATTENDANCE and PARTICIPATION:** Class attendance is your responsibility and privilege. Although attendance is not required, it serves a critical role in the course. Be willing to be involved in the class as an active participant. Ask questions, contribute to discussions and solutions, and be interested in the class activities.

**GETTING HELP:** You are encouraged to work together. HOWEVER, this is a proof-writing course and you are expected to not plagiarize the work of others. Your writing must be original. Also, use my office hours! Use me as much as you can. That's why I am here.

**HOMEWORK:** Keep in mind that math is a skill that can only be learned and mastered by doing it yourself with lots of practice. Do not attempt to do an entire assignment at one sitting. A minimum of two hours spent studying outside of class for each hour in class is usually required for college courses.

**GRADING:** There will be five tests (including the final exam) counting for 60% of your grade. The weekly homework assignments will count for 40% of your grade. All tests count toward your grade. As a general rule, make-up exams will not be given. The final exam will cover the last few sections and the major topics of the course.

**L<sup>A</sup>T<sub>E</sub>X:** You need to install and use L<sup>A</sup>T<sub>E</sub>X on your computers. Go to <http://www.tug.org/begin.html> to get started. If you have questions about it, come to my office.

**GRADING SCALE:** A (100-93%), A- (92.99-90%), B+ (89.99-87%), B (86.99-83%), B- (82.99-80%), C+ (79.99-75%), C (74.99-70%), C- (69.99-65%), D+ (64.99-60%), D (59.99-55%), D- (54.99-50%), F (49.99-0%).

**DISABILITIES:** Students with medical, psychological, learning or other disabilities desiring reasonable academic adjustment, accommodations, or auxiliary aids to be successful in this class will need to contact the DISABILITY RESOURCE CENTER Coordinator (Baako Wahabu) for eligibility determination. Proper documentation of impairment is required in order to receive services or accommodations. DRC is located at the ground floor of the Financial Aid Office. Visit or call 652-7516 to schedule appointment to discuss the process. DRC Coordinator determines eligibility for and authorizes the provision of services.

# MATH 2200 Schedule - Fall 2013

Date and Section	Assigned problems
Monday Aug 19: <b>Sections 1 and 2</b>	Read sections 1 and 2 prior to class; Work out the details to 1.1 This is due at the beginning of the first class.
Aug 21: <b>Section 3</b>	3.1, 3.3, 3.5, 3.6, 3.7, 3.9, 3.12b,c,e,g,k
Aug 23: <b>Section 4</b>	4.1a,b,e,g, 4.2 a,b,c,i,k, 4.5, 4.7, 4.12 a,d,e <b>Have LaTeX working</b>
Monday Aug 26: <b>Section 5</b>	5.5, 5.6, 5.9, 5.13, 5.17, 5.18
Aug 28: <b>Section 6</b>	6.2, 6.3, 6.5, 6.6, 6.10, 6.11, 6.12, 6.13
Aug 30: <b>Section 7</b>	7.1, 7.3, 7.5, 7.9, 7.10, 7.11(a,e,f,h), 7.12 (for 7.11h only), 7.14
<b>Monday Sept 2</b>	<b>Labor Day - No Classes</b>
Sept 4: <b>Problem Solving</b>	<b>Review HW problems;</b> Work Chapter 1 Self Test for next time
Sept 6: <b>Problem Solving</b>	<b>Review for Test 1</b> (Test 1 will be given in the Testing Center)
Monday Sept 9: <b>Section 8</b>	8.2, 8.7, 8.8, 8.12, 8.14, 8.18, 8.19
Sept 11: <b>Section 9</b>	9.2, 9.6, 9.8, 9.9, 9.10, 9.15, 9.18
Sept 13: <b>Section 10</b>	10.5 c,d, 10.6, 10.7 a,b, 10.9, 10.12, 10.13, 10.14
Monday Sept 16: <b>Section 11</b>	11.1 b,c,e,g,h,i, 11.5 a,b,e,f,g, 11.7
Sept 18: <b>Section 12</b>	12.1, 12.6, 12.7, 12.16, 12.28
Sept 20: <b>Section 13</b>	13.2, 13.3, 13.5, 13.6
Monday Sept 23: <b>Problem Solving</b>	<b>Review HW Problems;</b> Work Chapter 2 Self Test for next time
Sept 25: <b>Problem Solving</b>	<b>Review for Test 2</b> (Test 2 will be given in the Testing Center)
Sept 27: <b>Section 14</b>	14.1(a,b,d), 14.2 (c,d), 14.3 (No proofs required), 14.6 (a,d,e,f), 14.12.
Monday Sept 30: <b>Section 15</b>	15.1 (a,c), 15.2, 15.6, 15.7 (a,c,f), 15.8 (a,b,d)
Oct 2: <b>Section 16</b>	16.1, 16.2 (b,c,e), 16.3, 16.4, 16.7, 16.8, 16.17
Oct 4: <b>Section 16 cont</b>	
Monday Oct 7: <b>Section 17</b>	17.3, 17.4, 17.5, 17.6, 17.10, 17.11
Oct 9: <b>Section 19</b>	19.1, 19.2, 19.3, 19.8
<b>Friday Oct 11:</b>	<b>Fall Break: No Classes</b>
Monday Oct 14: <b>Section 19 cont</b>	
Oct 16: <b>Problem Solving</b>	<b>Review HW Problems;</b> Work Chapter 3 Self Test for next time
Oct 18: <b>Problem Solving</b>	<b>Review for Test 3</b> (Test 3 will be given in the Testing Center)
Monday Oct 21: <b>Section 20</b>	20.1(a,b,c,f), 20.3, 20.4(b,c,f), 20.5, 20.9
Oct 23: <b>Section 21</b>	21.2, 21.3, 21.5, 21.7
Oct 25: <b>Problem Solving</b>	<b>Additional Examples</b>
Monday Oct 28: <b>Section 22</b>	22.4(b,f), 22.12, 22.18
Oct 30: <b>Section 23</b>	23.2(e,k,n), 23.6
Nov 1: <b>Section 23 cont</b>	
Monday Nov 4: <b>Section 24</b>	24.3, 24.4, 24.5, 24.6, 24.8, 24.14, 24.16, 24.17, 24.20
Nov 6: <b>Section 25</b>	25.1, 25.2, 25.9, 25.17
Nov 8: <b>Problem Solving</b>	<b>Review HW Problems;</b> Work Chapter 4 Self Test for next time
Monday Nov 11: <b>Problem Solving</b>	<b>Review for Test 4</b> (Test 4 will be given in the Testing Center)
Nov 13: <b>Section 35</b>	35.1, 35.2, 35.3, 35.4, 35.8
Nov 15: <b>Section 36</b>	36.2, 36.5, 36.13, 36.18, 36.21a
Monday Nov 18: <b>Section 37</b>	37.1, 37.2, 37.3, 37.4, 37.10, 37.14
Nov 20: <b>Section 38</b>	
Nov 22: <b>Section 39</b>	
Monday Nov 25: <b>Problem Solving</b>	
<b>Nov 27 - 29: No Classes</b>	<b>Thanksgiving Break</b>

### MATH 2200 Schedule - Fall 2013

Date and Section	Assigned problems
Monday Dec 2: <b>Sections 44 and 45</b>	Discussion of Cryptography
Dec 4: Problem Solving	Review for Final Exam
<b>Friday Dec 6: Last Day of Classes</b>	Review for Final Exam
<b>Monday Dec 9: 3 - 5 pm</b>	<b>FINAL EXAM!!</b>