## Schedule and Assignments
### Spring 2005

EOO – every other odd-numbered problem

<table>
<thead>
<tr>
<th>Date</th>
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</table>
| Feb. 15 | 1.1: Linear Equations                  | 1.1: #3, 23, 27, 43, 59, 83, 87, 91  
|        | 1.5: Solving Inequalities              | 1.5: #11, 13, 15, 23, 25, 29, 35, 53, 55, 63, 65, 99, 105, 107  
| 17     | 2.2: Graphs of Equations               | 2.2: #2, 3, 5, 13, 15, 17, 19, 22, 27, 37, 41, 49, 51  
|        | 2.4: Lines                              | 2.4: #1, 5, 9, 13, 21, 35, 37, 39, 41, 57, 73, 74, 75, 77,a,c  
|        | 2.7: Variation                          | 2.7: #3-13 odd, 21, 31, 35  
| Feb. 22 | 3.1: Functions                          | 3.1: #1, 3, 15, 19, 27, 33, 37, 41, 47-61 odd, 65, 69, 73-79 odd, 89  
|        | 3.2: Graph of a Function                | 3.2: #5, 9, 11, 13, 23  
| 24     | 3.3: Properties of Functions            | 3.3: #1, 5, 11-33 odd, 37, 39, 43, 47, 49, 55, 67a,b,c, 69b,c, 71c,e  
| Mar. 1 | 3.4: Library of Functions; Piecewise-defined Functions | 3.4: #1, 9-16 all; 17-39 odd; 45, 47, 51a,b  
|        | 3.5: Graphing Techniques: Transformations | 3.5: #1-17 odd  
| 3      | 3.5: Graphing Techniques: Transformations | 3.5: #19-27 odd; 31, 33, 35, 39, 41, 57, 59, 62, 65, 67  
| Mar. 8 | Review (1.1, 1.2, 1.5; 2.2, 2.4, 2.7; 3.1-3.5) | Chapt. 1 Rev: #3, 47, 84  
|        |                                        | Chapt. 2 Rev: #8, 9, 14, 27,31, 37, 41, 47  
|        |                                        | Chapt. 3 Rev: #1, 3, 11, 15, 21, 23, 25, 27, 29, 33, 41, 45, 51, 55, 57, 62, 63  
| 10     | (no class)                             |            
| Mar. 15 | **Exam #1 (1.1,1.2,1.5; 2.2,2.4,2.7; 3.1-3.5)** | 1.7: #15, 17, 19, 21, 31, 47  
|        |                                        | 3.6: #3, 5, 7, 9, 15, 19, 21 (parts a,b only)  
| 17     | 1.7: Application: Interest (only)      |            
|        |                                        | 4.2: #3, 7, 11, 15, 17, 19, 23-35 odd  
| Mar. 22 | 4.1: Quadratic Functions and Models    | 4.5: #3, 5, 9, 11, 13, 19, 21, 25, and solve  
|        | 4.2: Polynomial Functions              | a) $(x-2)(x+3)^3<0$  
|        |                                        | b) $(x-1)^3(x+2)(x+1)^2 \geq 0$  
| 24     | 4.5: Polynomial and Rational Inequalities | 4.2: Polynomial Functions  
|        |                                        | 4.2: #37, 45, 47, 55, 59, 65, 67, 69, 73, 78, 79, 81, 83  
| Mar. 29 | 4.5: Polynomial and Rational Inequalities | 4.5: #31, 35, 43, 47, 49, 53, 55, 59  
|        | R6: Synthetic Division                 | R6: #9, 13, 23, 25, 33, 37  
| 31     | 4.6: The Real Zeros of a Polynomial Function | 4.6: #11, 15, 19, 21, 29, 33, 35, 37, 41, 43, 45, 47, 49, 53, 55, 57, 61, 67, 69, 71, 73, 79  

On the next page, problems marked with an * are to be done *without* the use of a graphing calculator.
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<tr>
<td>Apr. 5</td>
<td>4.3: Rational Functions I</td>
<td>4.3: #3, 5, 11, 13, 15, 19, 21-51 odd</td>
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<td>7</td>
<td>4.4: Rational Functions II</td>
<td>4.4: #5, 7, 11, 13, 15, 19, 23, 27, 31, 33, 35, 45, 49a, 51a,b; 53a; 55a</td>
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| Apr. 11-15 | (no classes – Spring Break) | Chapt. 1 Rev: #98, 104, 107  
Chapt. 3 Rev: #71, 75, 78  
Chapt. 4 Rev: #1, 3, 11, 15, 17, 21, 27, 33, 35, 39-51 odd; 57, 65, 69, 75, 79, 83 |
| Apr. 19    | Review (Sections 1.7, 3.6, 4.1-4.6) | Chapt. 1 Rev: #98, 104, 107  
Chapt. 3 Rev: #71, 75, 78  
Chapt. 4 Rev: #1, 3, 11, 15, 17, 21, 27, 33, 35, 39-51 odd; 57, 65, 69, 75, 79, 83 |
| 21         | **Exam #2 (Sections 1.7, 3.6, 4.1-4.6)** |
| Apr. 26    | 5.1: Composite Functions | 5.1: #1,3,7,9,13,17,27a-41a odd; 51-56all,65  
5.2: Inverse Functions |
| 28         | 5.3: Exponential Functions | 5.3: #3, 5, 7, 9, 11, 17, 29-36 all, 37, 39, 45, 51, 53, 75, 77, 81a,c; 86a  
5.4: Logarithmic Functions |
| May 3      | 5.4: Logarithmic Functions | 5.4: #63, 65, 67-74 all, 79, 81, 83, 89, 91-109 odd; 113a, 115b, 120  
5.5: Properties of Logarithms |
| 5          | 5.6: Logarithmic and Exponential Equations | 5.6: #1,5,9, 11, 13, 17, 21, 29, 31, 33, 41  
5.7: Compound Interest  
5.8: Logistic Model |
| May 10     | Review (Chapter 5) | Chapt. 5 Rev: #1-11 odd; 12, 13, 15, 17, 20, 23-33 odd; 39, 41, 49, 51, 53*, 55, 60, 63, 65, 69, 71, 75, 81, 85, 87, 91 |
| 12         | **Exam #3 (Chapter 5)** |
| 19         | 7.7: Systems of Inequalities  
7.8: Linear Programming | 7.7: #1, 6, 13, 25, 45  
7.8: #5, 11, 13, 17, 19, 21, 22, 23, 25, 27, 29 |
| May 24     | 8.1: Sequences | 8.1: #1, 5, 11, 13, 21, 23, 43, 45, 47, 51, 55, 57, 58, 59, 65, 66, 67, 69, 71  
For #55, 57, 58, 65, 66, also compute the “sum” using properties on page 638  
8.3: Geometric Sequences; Geometric Series  
8.5: The Binomial Theorem |
| 26         | 8.5: The Binomial Theorem | 8.5: #2, 5, 10, 11, 19, 21, 27, 29, 31, 35, 37  
Also, use the Binomial Theorem to compute the “difference quotient” for  
a) $f(x) = x^4$  
b) $f(x) = 4x^3 - 7x^2 + 1$ |
| May 31     | R.8: nth Roots; Rational Exponents | R.8: #73-95 odd |
| June 2     | General course review  
• If you feel you need more practice on problems in Chapters 7, 8, & R.8, then you might want to work on adjacent review problems  
• This text also contains Cumulative Reviews (C Rev) throughout the text. It is strongly recommended that you do the problems from these reviews. | Math 22 General Course Review (from website)  
Chapt. 7 Rev: #35, 38, 41, 91, 93, 101, 107  
Chapt. 8 Rev: #1, 9, 11, 25, 27, 29, 41, 45, 57, 61, 65, 67  
pp. 80-81: #45, 47, 87-93 odd  
C Revs: Pg 389: all problems except 1, 5, 10, 12  
Pg 489, #1-14 all  
Pg 630, #1-7, 9,10,11a,f,g,h,i,j  
Pg 674, #3, 4, 6  
Pg 708, #2, 3, 6, 7, 8, 9 |
| June 7     | **Final exam** | |