








# MATH 106- SPRING 2011

Week Dates	Section & Topic	Lecture & Homework Assignments	
<b>Week 1</b> <i>1/18 – 1/21</i>	<b>P.2:</b> Integer Exponents & Scientific Notation	<b>1</b>	Pg. 26, ex. 36, 38, 68, 76
	<b>P.3:</b> Polynomials	<b>2</b>	Pg. 37, ex. 22, 30, 42, 62
	<b>P.4:</b> Factoring Polynomials	<b>3</b>	Pg. 46, ex. 24, 30, 38, 56, 66, 103, 105, 107
<b>Week 2</b> <i>1/24 – 1/28</i>	<b>P.5:</b> Rational Expressions	<b>4</b>	Pg. 56, ex. 30, 35, 38, 70, 78, 88, 92
	<b>P.6:</b> Rational Exponents & Radicals	<b>5</b>	Pg. 69, ex. 28, 32, 44, 53, 60, 68, 92, 94, 102
<b>Week 3</b> <i>1/31 – 2/4</i>	<b>P.5:</b> <b>P.6:</b> Practice P5 and P6	<b>6</b>	Pg. 69, ex. 28, 32, 44, 53, 60, 68, 92, 94, 102
	<b>1.1:</b> Linear Equations in One Variable	<b>7</b>	Pg. 92, ex. 37, 43, 55, 77, 79, 81, 83, 108
	<b>1.3:</b> Complex Numbers	<b>8</b>	Pg. 115, ex. 14, 24, 30, 38, 50, 54
<b>Week 4</b> <i>2/7 – 2/11</i>	<b>L▶</b> <b>REVIEW FOR EXAM #1</b>	<b>9</b>	<b>STUDY FOR EXAM #1</b>
	<b>L▶</b>	<b>MIDTERM EXAM I: WEDNESDAY ~ FEBRUARY 9, 2011</b>	
	<b>1.4:</b> Quadratic Equations	<b>10</b>	Pg. 128, ex. 31, 45, 63, 79
	<b>1.5:</b> Solving Other Types of Equations	<b>11</b>	Pg. 142, ex. 13, 23, 31, 45, 51, 57, 67, 77
<b>Week 5</b> <i>2/14 – 2/18</i>	<b>1.5:</b> Solving Other Types of Equations (cont.)	<b>12</b>	Pg. 142, ex. 13, 23, 31, 45, 51, 57, 67, 77
	<b>1.6:</b> Linear Inequalities	<b>13</b>	Pg. 155, ex. 28, 48, 56, 62, 76, 89, 91, 94
	<b>1.7:</b> Equ. & Inequalities Involving Absolute Value	<b>14</b>	Pg.162, ex. 24, 30, 38, 40, 52, 56, 68
<b>Week 6</b> <i>2/21 – 2/25</i>	<b>2.1:</b> Coordinate Plane	<b>15</b>	Pg. 176, ex. 14, 16
	<b>2.2:</b> Graphs of Equations		Pg. 188, ex. 40, 42, 50, 60, 64
	<b>2.3:</b> Lines	<b>16</b>	Pg. 204, ex. 30, 34, 36, 38, 44, 54, 78, 81
	<b>2.4:</b> Relations and Functions	<b>17</b>	Pg. 224, ex. 32, 42, 66, 68
<b>Week 7</b> <i>2/28 – 3/4</i>	<b>2.5:</b> Properties of Functions	<b>18</b>	Pg. 236, ex. 12, 28, 30, 34, 38
	<b>2.6:</b> A Library of Functions	<b>19</b>	Pg. 248, ex. 16, 22, 41
	<b>2.7:</b> Transformations of Functions	<b>20</b>	Pg. 263, ex. 12, 16, 54, 68, 72

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<b>Week 8</b> <small>3/7 – 3/11</small>		<b>REVIEW FOR EXAM #2</b>	<b>21</b>	<b>STUDY FOR EXAM #2</b>
		<b>MIDTERM EXAM II: WEDNESDAY ~ MARCH 9, 2011</b>		
	<b>2.8:</b>	Combining Functions; Composite Function	<b>22</b>	Pg. 274, ex. 8, 16, 40, 46
	<b>2.9:</b>	Inverse Functions	<b>23</b>	Pg. 287, ex. 26, 30, 42
<b>Week 9</b> <small>3/14-3/18</small>		<b>SPRING RECESS: MARCH 13-19, 2011</b>		
<b>Week 10</b> <small>3/21 – 3/25</small>	<b>3.1:</b>	Quadratic Functions	<b>24</b>	Pg. 306, ex. 28, 44, 50, 56
	<b>3.2:</b>	Polynomial Functions	<b>25</b>	Pg. 323, ex. 20, 22, 36, 40, 44, 62
	<b>3.3:</b>	Dividing Polynomials	<b>26</b>	Pg. 337, ex. 12, 16, 28, 32a, 36, 48
<b>Week 11</b> <small>3/28 – 11/5</small>		<b>LAST DAY TO <span style="color: red;">WITHDRAW</span> FROM THIS COURSE</b>		
	<b>3.4:</b>	The Real Zeros of a Polynomial Function	<b>27</b>	Pg. 347, ex. 7, 12, 30
	<b>3.5:</b>	The Complex Zeros of a Polynomial Funct.	<b>28</b>	Pg. 356, ex. 12, 14, 20, 24, 34
	<b>3.4:</b> <b>3.5:</b>	Practice 3.4 and 3.5	<b>29</b>	Pg. 356, ex. 12, 14, 20, 24, 34
<b>Week 12</b> <small>4/4 – 4/8</small>	<b>3.6:</b>	Rational Functions	<b>30</b>	Pg. 372, ex. 58, 61, 70, 74
	<b>3.6:</b>	Rational Functions	<b>31</b>	Pg. 372, ex. 58, 61, 70, 74
	<b>3.7:</b>	Polynomial & Rational Inequal. (polynomial)	<b>32</b>	Pg. 383, ex. 16, 22, 30, 46
<b>Week 13</b> <small>4/11 – 4/15</small>		<b>REVIEW FOR EXAM #3</b>	<b>33</b>	<b>STUDY FOR EXAM #3</b>
		<b>MIDTERM EXAM III: WEDNESDAY ~ APRIL 13, 2011</b>		
	<b>3.7:</b>	Polynomial & Rational Inequal. (rational)	<b>34</b>	Pg. 384, ex. 58, 62, 66, 70
<b>Week 14</b> <small>4/28 – 4/22</small>	<b>4.1:</b>	Exponential Functions	<b>35</b>	Pg. 413, ex. 8, 10, 12, 16, 24, 34, 48
	<b>4.3:</b>	Logarithmic Functions	<b>36</b>	Pg. 440, ex. 10, 26, 36, 38, 46, 56, 70, 80, 98
<small>4/22</small>		<b><span style="color: red;">GOOD FRIDAY</span> ~ NO CLASSES SCHEDULED</b>		
<b>Week 15</b>	<b>4.4:</b>	Rules of Logarithms	<b>37</b>	Pg. 453, ex. 14, 20, 26, 32, 48, 50, 66, 68, 72

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4/25 – 4/29	4.4:	Rules of Logarithms	38	Pg. 453, ex. 14, 20, 26, 32, 48, 50, 66, 68, 72
	4.4:	Rules of Logarithms	39	Pg. 453, ex. 14, 20, 26, 32, 48, 50, 66, 68, 72
<b>Week 16</b> 5/2- <del>5/4</del>	4.5:	Exponential & Logarithmic Equations	40	Pg. 467, ex. 18, 28, 34, 54, 60, 66 (do not use calc. For ex. 28, 34 – leave answer with a log)
	4.5:	Exponential & Logarithmic Equations	41	Pg. 467, ex. 18, 28, 34, 54, 60, 66 (do not use calc. For ex. 28, 34 – leave answer with a log)
	▶	<b>REVIEW FOR FINAL EXAM</b>	42	<b>STUDY FOR FINAL EXAM</b>
	▶	TUE <b>MAY 3</b> CLASSES FOLLOW A <b>FRIDAY</b> SCHEDULE		
	▶	<b>5/4</b> READING DAY		
<b>Finals</b>	FINAL EXAM WEEK: MAY 5-11, 2011			