

## Textbook and Topics List ~ Westminster Math Department ~ Aug. 20, 2008

\*\*\* Remember to reference the course philosophies for greater detail. \*\*\*

	Textbook	Chapters to be covered	Optional sections
<b>MAT 030</b> <i>Fundamentals of Mathematics</i>	<i>Basic College Mathematics</i> Miller; 1 <sup>st</sup> Edition McGraw-Hill ISBN: 007-331319-X Optional Student Solution Manual ISBN: 007-328165-4	1.1 – 1.8 2.1 – 2.6 3.1 – 3.5 4.1 – 4.6 (first four chapters)	
<b>MAT 060</b> <i>Pre-Algebra</i>	<i>Pre-Algebra</i> Lial/Hestwood; 3 <sup>rd</sup> Edition Addison-Wesley ISBN: 0321470567	1.2, 1.3, 1.4, 1.6, 1.7, 1.8; All of 2, 3, and 4; 5.8, 5.9, 5.10; 6.1 – 6.4; 7.1, 7.3 – 7.5; All of 8	1.5, 3.4 and 7.2 are optional.
<b>MAT 090</b> <i>Introductory Algebra</i>	<i>Beginning and Intermediate Algebra</i> , Sherri Messersmith; 2 <sup>nd</sup> Edition McGraw-Hill ISBN: 9780077276249	Chapters 2-6; Omit 4.7 and 4.8 Include 7.1-7.4	Chapter 1 as needed for review
<b>MAT 103</b> <i>Math for Clinical Calculations</i>	<u><i>Rx Success Complete Guide to Medical Math for the Health Care Professional</i></u> ; Crane		
<b>MAT 106</b> <i>Survey of Algebra</i>	<i>Beginning and Intermediate Algebra</i> , Sherri Messersmith; 2 <sup>nd</sup> Edition McGraw-Hill ISBN: 9780077276249	Mid-chapter summary, 7.5, 7.6 Chp. 8; 9.1, 9.2, 9.3 ; Chp10, 11; 4.7, 4.8 & 12.1	
<b>MAT 107</b> <i>Career Math</i>	<i>Essentials of College Mathematics</i> Cleaves & Hobbs; 2nd edition Pearson/Prentice Hall ISBN: 0131998056	1.2; 2.5-2.7; 3.1- 3.4; Chp 4, 5, 6, and 9 – all sections; Chp 12 – all; 15.1	1.1, 1.3 as needed; 2.1 - 2.4 as needed; 7.1 15.2
<b>MAT 120</b> <i>Math for the Liberal Arts</i>	<i>Using &amp; Understanding Math</i> Bennett & Briggs; 4th edition Addison Wesley ISBN: Instructor: Student: 978-0-321-45820-9	Chp 1: B, C, D Chp 3: D (just inflation) Chp 4: B, C, D Chp 5: A, C Chp 6: A, B, C Chp 7: A, B, C, D, E Chp 8: B Chp 9: A, B, C	Choose <b>one</b> of the following three options: <u>Option A:</u> Chp 10: A, B, C and Chp 11: B, C <u>Option B:</u> Chp 12: A, B, C <u>Option C:</u> Chp 13: A, B, C

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<p><b>MAT 121</b> <i>College Algebra</i> <b>All sections</b></p>	<p><i>College Algebra</i> Blitzer; 4<sup>th</sup> edition Pearson ISBN: 0536129614</p>	<p>Chp. 2 : 2.1-2.8 Chp3: 3.1-3.6 3.4 -Make sure to assign hw like #25-32 on P. 347. Chp 4: 4.1-4.5 Chp 5: 5.1 &amp; 5.4 only Chp 7: 7.1, 7.2, 7.3</p>	<p>OPTIONAL: Chapter P &amp; 1; 3.3 -Remainder Thm is optional. 3.4 – Rational Zero Thm &amp; Descarte's Rule of Signs are optional 3.7 4.5: modeling and expressing <math>y = ab^x</math> in base e</p>
<p><b>MAT 122</b> <i>College Trigonometry</i></p>	<p><i>Trigonometry</i> Mark Dugopolski; 2nd edition Addison Wesley ISBN: 0321208811</p>	<p>1.1-1.6; 2.1-2.4; 3.1-3.5;4.1-4.4; 5.1-5.4; 6.1-6.5</p>	<p>2.5; skip half-angle identities in 3.5, 3.6;</p>
<p><b>MAT 123</b> <i>Finite Mathematics</i></p>	<p><i>Finite Mathematics</i>; Lial, Hungerford and Holcomb; 9th edition; Pearson/Addison Wesley publishers ISBN:</p>	<p>2.1-2.5; 3.1-3.7; 4.1-4.4; 5.1-5.4; 6.1-6.5; 7.1-7.4</p>	
<p><b>MAT 125</b> <i>Survey of Calculus</i></p>	<p><i>Applied calculus</i>, Third Edition, by Hughes Hallet, Gleason, Lock, Flath, et al; published by John Wiley &amp; Sons, Inc. in 2006; ISBN: 0-471-68121-0</p>	<p>1.1-1.7; All Chp 2; 3.1-3.4;4.1-4.7;5.1-5.5; 2 out of 3 in 6.1-6.3;all Chp 7; 9.1-9.3</p>	<p>4.8; 9.4</p>
<p><b>MAT 135</b> <i>Introduction to Statistics</i> <b>All sections</b></p>	<p><i>Fundamentals of Statistics</i> Michael Sullivan; 2<sup>nd</sup> edition Pearson ISBN is 9780132355230 for traditional sections ISBN is 0321588495 for online sections</p>	<p>Chapters 1 to 12  Cover 5.1 to 5.3 as needed for the binomial distribution (Section 6.2)  Cover either Chapter 11 (all sections) or Chapter 12 (sections 12.1 and 12.2)</p>	<p>Optional: 3.3 and 12.3 – if Chapter 12 is covered  Omit: 5.4, 5.5, 5.6, 7.5</p>
<p><b>MAT 155 / 156</b></p>	<p><i>Problem Solving Approach to Math for Elementary School Teachers</i> Billstein; 8<sup>th</sup> edition Addison Wesley ISBN: 0321156803 <i>Mathematics Activities for Elem School Educators</i> ISBN: 0321174135 Optional Student Solution Manual ISBN: 0321170199</p>	<p>Mat 155: Chapters 1-6 MAT 156: Chapters 7-12</p>	
	<p><b>Book</b></p>	<p><b>Chapters to be covered</b></p>	<p><b>Optional Sections</b></p>

<b>MAT 201</b> <i>Calculus I</i>	<i>Thomas' Calculus, Early Transcendentals</i> Weir, Hass, Giordano Custom for FRCC (Based on Thomas' Calculus ET, 11 <sup>th</sup> Ed Media Upgrade)	Chapters 1.5-5.6 & 7.4 (derivatives of hyperbolics). Do 7.4 after 3.7	Chapter 1.1-1.4 is optional review;
<b>MAT 202</b> <i>Calculus II</i>	<i>Thomas' Calculus, Early Transcendentals</i> Weir, Hass, Giordano Custom for FRCC (Based on Thomas' Calculus ET, 11 <sup>th</sup> Ed Media Upgrade)	Roughly 3.5 & 6-11. Skip: 6.4 & Chapter 7 & Chapter 9 & 11.11 Sections: 3.5, 6.3, 6.5,10.4 are to be covered twice. The first pass without parametric equations and the second pass with. (3.5 without is covered in Calc 1). Suggested Order: 5.6, Ch 6.1-6.5, Ch 8, Ch 11,Ch 10, 3.5B,6.3B,6.5B,10.4, 6.6,6.7	Will most likely need to review area between curves from 5.6.  Optional Review: 10.1
<b>MAT 204</b> <i>Calculus III</i>	<i>Thomas' Calculus, Early Transcendentals</i> Weir, Hass, Giordano Custom for FRCC (Based on Thomas' Calculus ET, 11 <sup>th</sup> Ed Media Upgrade)	Ch 12: all Ch 13: 13.1 to 13.5 Ch 14: 14.1 to 14.8 Ch 15: all Ch 16: all	Optional: 13.6, 14.9,14.10,
<b>MAT 255</b> <i>Linear Algebra</i>	<i>Elementary Linear Algebra</i> Larson, Edwards; 5 <sup>th</sup> edition Houghton Mifflin ISBN: 0618400508 Optional Student Solution Manual ISBN: 0618335684	Chapters 1-7	
<b>MAT 265</b> <i>Differential Equations</i>	<i>Fundamentals of Differential Equations</i> Nagle and Saff; 7 <sup>th</sup> edition	Chapters 1-9	none