

MATH 121 SYLLABUS - FALL 2007

WEEKS 1–5

Day	Date	Section	Assignment	Topic
M	8/27	2.1	1, 5, 14, 19, 31, 35, 45	Graphs, Calculators
W	8/29	2.2	2, 7, 15, 20, 30, 35, 39, 48	Solving Equations
F	8/31	2.3	3, 5, 7, 9, 10, 11, 13, 14, 21–23	Applications
M	9/03		HOLIDAY	
W,F	9/05–9/07	3.1	1–5, 7, 11–17 odd, 33, 34, 36, 44, 45	Functions
M	9/10	3.2	2, 3–25 odd, 31, 34, 40, 41, 55, 56, 61, 69	Function Notation
W	9/12	3.3	1–4, 6, 9, 15, 18, 21, 28, 30, 35, 39, 40–42	Graphs of Functions
F	9/14	3.4	1–12, 15, 20, 21, 27, 31–34	Graphs & Transformations
M	9/17	3.5	1, 7, 9, 13–17, 20, 21–27 odd, 35–42, 61	Operations on Functions
W	9/19	3.7	1, 3, 9–19 odd, 29, 31, 33, 36, 42, 48, 49	Inverse Functions
F	9/21	4.1	1–8, 10, 15, 19, 31, 34, 37, 40, 41, 43–46, 58	Quadratic Functions
M	9/24	4.2	9, 11, 17, 19, 22, 33–45 odd, 49, 51, 53, 55	Polynomial Functions
W	9/26		REVIEW	
F	9/28	1.1–4.2	EXAM #1	

WEEKS 6–9

Day	Date	Section	Assignment	Topic
M	10/01	4.3	1, 5, 7, 23, 27, 28, 40, 41	Real Roots
W	10/03	4.4	1–6, 7, 11, 12, 13, 15, 18, 19–24, 25, 43, 45, 57	Graphs of polynomials
F	10/05	4.5	2, 4, 7–11, 15, 25, 27, 36, 45, 56, 57	Rational Functions
M	10/08	4.6, 4.6A	4.6: 1, 3, 17, 21, 25, 31, 41, 47, 49, 55, 56, 69, 71 4.6A: 2, 8, 18	Inequalities
W	10/10	4.7, 4.8	4.7: 1, 3, 9, 17, 27, 33, 37, 59, 69 4.8: 1, 11, 19, 21, 23, 27, 35, 43, 45, 49, 50	Complex numbers, Theory of Equations
F	10/12	5.1, 5.1A	5.1: 1–47 odd, 55 5.1A: 1, 8, 11, 25, 35, 47	Radicals, Rational Exponents Radical Equations
M	10/15	5.2, 5.2A	5.2: 1, 3, 7, 13, 14, 43, 49, 51, 54, 56, 67 5.2A: 1, 3, 11, 15	Exponential Functions Compound Interest
W	10/17	5.3, 5.4	5.3: 1–39 odd, 47, 51, 56, 60, 75 5.4: 1–13 odd, 17, 19, 23, 24, 25, 31	Logarithmic Functions Properties of Logarithms
F	10/19	5.5	1, 3, 9, 13, 17, 25, 55, 61, 63, 67	Exponential, Log Equations
M	10/22	6.1	9–43 odd, 49, 51, 65, 67, 75, 77	Angles, Measurement
W	10/24		REVIEW	
F	10/26	4.1–5.5	EXAM # 2	

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WEEKS 10–13

Day	Date	Section	Assignment	Topic
M	10/29	6.2, 6.3	6.2: 1–29 odd, 30, 37–49 odd 6.3: 20, 23, 26–29, 32–35, 37, 38, 40, 47–50, 59, 62	Sine, Cosine, Tangent Functions; Identities
W	10/31	6.4	1, 5, 8, 11–14, 16, 18, 21–25, 31, 33	Basic Graphs
F	11/02	6.5	1, 2, 5, 8, 15, 17, 19, 23, 25, 31, 33, 37, 41, 45	Periodic Graphs; Harmonic Motion
M	11/05	6.6	1, 3, 7–17 odd, 20, 47–51 odd	Other Trig Functions
W	11/07	7.1	1, 5, 9, 17, 19, 42, 45, 49	Basic Identities, Proofs
F	11/09	7.2	1–7 odd, 13, 15, 23, 27, 49, 52	Addition, Subtraction Identities
M	11/12	7.3	1–4, 23–27 odd, 32–35, 37, 38, 41, 45, 46, 49	More Identities
W	11/14	7.4	1–13 odd, 19, 23, 27–39 odd, 43, 45, 52, 53	Inverse Trig Functions
F	11/16	7.5	1–11 odd, 17, 23, 30, 41, 45, 65, 69, 77	Trig Equations
M	11/19		REVIEW	
W	11/21	6.1–7.5	EXAM # 3	

WEEKS 14–15

Day	Date	Section	Assignment	Topic
M	11/26	8.1, 8.2	3, 10, 11, 12, 13, 19, 23, 25, 29, 35, 37, 39, 47, 49 8.2: 3, 6, 8, 11, 12, 16, 17, 19, 20, 24	Trig Functions of Angles, Right Triangle Trig; Apps
W	11/28	8.3, 8.4	8.3: 3, 9, 19, 20, 25 8.4: 5, 12, 33, 35	Law of Cosines, Law of Sines
F	11/30	9.1	1–13 odd, 17, 20, 25–37 odd, 41, 44	Complex Plane; Polar Form
M	12/03	9.2	1, 5, 8, 13, 17–20, 23–26, 31–35	DeMoivre's Theorem; Nth Roots of Complex Numbers
W	12/05	9.3	1, 5, 11, 13, 16, 20, 21, 31, 35–43 odd, 59, 65	Vectors
F	12/07		REVIEW	
R	12/13		FINAL EXAM, 6-8 PM	