Math 125 Sequence of Topics

From *Precalculus: Concepts Through Functions*, 4th Edition, by Sullivan

	Topic	Assignment
1.1	Introduction to Functions	23–37 odd, 41, 45, 47, 51–75 odd, 83, 89, 93, 95, 97, 109
1.2	Graphs of Functions	11–29 odd
1.3	Properties of Functions	37–47 odd, 67, 69
1.4	Library of Functions	27–45 odd
1.5	Transformations	19–29 odd, 35, 77
1.6	Mathematical Models	5, 6, 7ab, 9ab, 11ab, 13, 15, 21, 23, 25abc
2.1	Linear Functions	25, 31, 35, 43, 55
2.3	Quadratic Functions	13, 17, 19, 23, 27, 31, 33, 35, 37, 43–71 odd, 75, 99, 101, 105, 107, 113
2.4	Quadratic Graphs	23, 35, 39, 41, 47, 51, 53, 55, 57, 59, 75, 87, 88
2.6	Quadratic Models	3, 7, 9, 13, 15, 17, 19
2.7	Complex Zeros of Quadratic Functions	9, 13, 17, 19, 21, 23, 31, 33
2.8	The Absolute Value Function	19–69 odd
3.1	Polynomial Functions	19, 23, 25, 43–55 odd, 121, 123
3.2	Real Zeros of Polynomial Functions	11–19 odd, 33, 37, 41, 45–67 odd, 105, 107, 109
3.3	The Fundamental Theorem of Algebra	7–39 odd
3.4	Rational Functions	15–31 odd, 45–55 odd
3.6	Polynomial & Rational Inequalities	13, 19–59 odd, 69, 71, 73
4.1	Function Composition	13–37 odd, 43, 47, 49, 51, 55, 63, 65
4.2	The Inverse of a Function	17, 19, 31, 33, 37, 39, 41, 43, 55, 57, 63–79 odd, 83, 85, 87, 91, 100, 103, 105
4.3	Exponential Functions	43–61 odd (graph optional), 63–87 odd, 125, 127
4.4	Logarithmic Functions	15, 17, 21, 25, 39–49 odd, 73, 77, 79, 81, 85, 89–111 odd, 121
4.5	Properties of Logarithms	25–35 odd, 39, 43, 47, 49, 51, 55, 59, 63, 65, 67, 85, 89, 91, 93, 95, 101, 105
4.6	Exponential & Logarithmic Equations	7, 11, 13, 17–39 odd, 43, 45, 49, 53–67 odd, 83, 85, 87, 91, 93, 97
4.8	Exponential Growth & Decay	3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23
5.1	Angles & Their Measures	23–77 odd, 107
5.2	Trigonometric Functions	13, 17, 21, 25, 29, 33, 37, 41, 45, 49, 53, 55, 57, 61, 63, 65, 69, 73, 77, 81, 83, 117, 132
5.3	Properties of Trigonometric Functions	11–25 odd, 35–57 odd, 69, 73, 77, 81, 113, 117, 123, 127
5.4	Graphs of Sine & Cosine	13, 15, 17, 19, 21, 35, 37, 41, 45, 47, 49, 51, 55, 57, 59, 63, 65, 69, 90

5.5	Graphs of Other Trigonometric Functions	17, 21, 25, 29, 33, 37, 39
6.1	Inverses: Sine, Cosine, and Tangent	15, 17, 19, 21, 23, 25, 39–77 odd
6.2	Inverses: Secant, Cosecant, Cotangent	9–43 odd, 57, 59, 61, 63, 67, 73, 77
6.3	Trigonometric Equations	13–45 odd, 59–81 odd, 95, 99
6.4	Trigonometric Identities	25, 29, 33, 37, 41, 45, 49, 53, 57, 61, 65, 69, 73, 75, 77, 81, 85, 89, 99, 101, 111, 115
6.5	Sum & Difference Formulas	13-39 odd, 49, 53, 55, 61, 65, 69, 77, 79, 81, 85, 95, 97, 109
6.6	Double-Angle & Half-Angle Formulas	9–29 odd, 43, 45, 49, 53, 57, 59, 61, 71–83 odd, 87, 91, 97, 101
7.1	Right-Triangle Trigonometry	11, 13, 17, 29–45 odd, 51, 53, 55, 59, 61, 67, 73, 77
7.2	Law of Sines	9–43 odd, 48, 49, 56, 57, 58
7.3	Law of Cosines	9–43 odd, 47, 49, 59