

# Syllabus for Math 19500, Precalculus

Text: Stewart, Redlin, Watson *Precalculus*, 7th ed., Cengage.

(Visit the Math195WebAssignInfo link on the CCNY Math 195 webpage before purchasing the textbook because you must also purchase a webassign access code.)

Section	Hours	Exercises
1.1 Reals	1	29–32,35–38,47–66
1.2 Exponents (omit Scientific Notation)	1	9–82
1.3 Alg Expression	1	9–78
1.4 Rational Expression	1	1–96
1.5 Equations	1	2–116
1.8 Inequalities	2	7–90
1.9 Coordinate Plane (omit symmetry)	1	25–45,55–60,83–104
1.10 Lines	1	9–52
2.1 Functions (omit $[[x]]$ )	2	17–72
2.2 Graphs	2	2–28,33–46,49–68
2.3 Graph Info (Examples 1,2,5,8 only)	1	7–16,43–46
2.4 Rate of Change	1	7–31
2.6 Transformations	2	1–74
2.7 Combining Functions (Examples 3–6 only)	1	27–72
2.8 Inverses	2	7–74
3.1 Quadratics (omit modeling)	1	1–44
3.2 Polynomial Graphs	1	1–44, 51–54
3.3 Dividing Polynomials (Examples 1, 2 ONLY)	1	1–24
4.1 Exponentials (omit compound interest)	2	7–44
4.2 Natural Exp (omit compound interest)	0.5	3–16
4.3 Log Functions	2	1–78
4.4 Laws of Logs (omit change of base)	1	7–58
4.5 Log and Exp Equations	2	1–68,77–88
4.6 Modeling (Ex3 and Relative Growth Rate only)	1	5–8,11–14
5.1 The Unit Circle (explain degrees from 6.1)	2	1–60
5.2 Trig Functions	2	1–70
5.3 Trig Graphs (omit graphing devices)	2	1–54
5.5 Inverse Trig (sin, cos, tan only)	1	1–10,23–48
7.1 Trig Identities (omit cofunction ids)	2	1–28,31–88
7.2 Add/Subtr Formulas	1	1–54
7.3 Double, Half Angle (omit product-sum)	1	3–10,17–42
7.4 Basic Trig Eqns	2	1–38
10.1 Systems of Linear Equations in Two Variables	1	5–14,21–50,59–75