

<i>* Lessons in italics should be completed at home BEFORE class</i>			vid mins:
8/19/2026 week 1	☐ 1.1: Sets, real numbers, inequalities, abs. values	15	
	1A ☐ 1.2: Exponents and radicals	19	
	☐ 1.3: Polynomials, Pythagoras, geometry, calculators	10	
	☐ 1.4: Equations, quadratic equations	15	
	☐ 1.5: Mathematical modeling	17	61 min
8/26/2026 week 2	☐ <i>1.6: More mathematical modeling</i>	21	
	1B ☐ 1.7: Inequalities, combined inequalities, quad. Ineq.	25+18	
	1C ☐ 1.8: Polynomial, rational, absolute value inequalities	25+49	50+ min
9/2/2026 week 3	☐ <i>1.9: Complex numbers, complex conjugates</i>	30	
	1D ☐ 1.10: i and powers of i , negative discriminants	14	
	☐ 1.11: rectangular coordinates, dist & midpt formula	11	
	☐ 1.12: graphing equations, using intercepts & symmetry	19	
	☐ 1.13: circles	12	56 min
9/9/2026 week 4	☐ <i>1.14: slope of a line, linear equation forms</i>	29	
	1E ☐ 1.15: parallel and perpendicular lines	12	
	(1F) ☐ 2.1: definition of a function	15	
	(1G) ☐ 2.2: graph of a function	22	
	☐ 2.3: function notation, difference quotients	25	74 min
9/16/2026 week 5	☐ <i>2.4: important functions</i>	20	
	T1 ☐ 2.5: piecewise functions	10	
	2A ☐ 2.6: graphing functions	7	
	2B ☐ 2.7: scaling a graph vertically	8	
	☐ 2.8: combining graphing procedures	12	
9/23/2026 week 6	☐ 2.9: operations on functions	10	47 min
	☐ <i>2.10: composite functions - begin at home through 2.10e</i>	9	
	☐ 2.10: composite functions - finish in class, $f \circ i$	27	
	2C ☐ 2.11: one-to-one functions	12	
	2D ☐ 2.12: inverse functions	12	
	2E ☐ 2.13: mathematical models	9	
9/30/2026 week 7	(2F) ☐ 2.14: more mathematical models	10	70 min
	☐ <i>3.1: quadratic functions</i>	21	
	T2 ☐ 3.2: graphing quadratics	11	
10/7/2026 week 8	3A ☐ 3.3: applications	18	29
	☐ <i>3.4: polynomial functions</i>	18	
10/14/2026 off	3B ☐ 3.5: graphing polynomial functions	23	
	☐ 3.6: analyzing graphs of polynomials	23	46 min
Fall Break!			
10/21/2026 week 9	☐ 3.7: rational functions	15	
	3C ☐ 3.8: asymptotes	25	
	☐ 3.9: graphing rational functions	19	
	☐ 3.10: graphing more rational functions	21	80 min

10/28/2026	week 10	☐ 3.13: zeros of a polynomial	19	
	3D	☐ 3.11: division of polynomials	23	
		☐ 3.12: synthetic division	16	
		☐ 3.14: finding real zeros	41	80 min
11/4/2026	week 11	☐ 3.15: approximating real zeros videos 3.15a - e only	11	
	3E	☐ 3.16: fundamental theorem of algebra	8	
	(3F) (3G)	☐ 3.15: approximating real zeros - Intermediate Value Thm	7	
		☐ 3.17: complex polynomials	17	
		☐ 4.1: exponential and logarithmic functions	39	
		☐ 4.2: the base e	16	79 min
11/11/2026	week 12	☐ 4.3: logarithmic functions	12	
	T3	☐ 4.4: graphs of logarithmic functions	12	
	4A	☐ 4.5: properties of logarithms	25	
	4B	☐ 4.6: logarithms on a calculator	13	50 mn
11/18/2026	week 13	☐ 4.7: logarithmic equations	13	
	4C	☐ 4.8: exponential equations	30	
		☐ 4.9: compound interest	17	
		☐ 4.10 more compound interest	13	60 min
11/25/2026	off	THANKSGIVING BREAK		
12/2/2026	week 14	☐ 4.13: logarithmic scales	18	
	4D	☐ 4.11: growth and decay	17	
	(4E)	☐ 4.12: radioactive decay	26	43 min
12/9/2026	week 15	REVIEW DAY in class		
	T4	**exam review packet!**		61 min
Over		☐ 5.1: angles and degrees	32	
Christmas	5A	☐ 5.2: circular motion	31	
Break		☐ 5.3: the unit circle	20	
Start chapter 5		☐ 5.4: trig functions of common angles	35	86 min

midterm exam due by 12/14 - Metro semester grade deadline 12/23

Precalculus Spring Semester

1/6/2027	week 17	☐ 5.5: domain and range of trig functions	27	
	5B	In Class: quick review of the unit circle	12	
	5C	☐ 5.6: fundamental identities	25	
	5D	☐ 5.7: right triangle trigonometry	13	
		☐ 5.8: reference angles	14	
		☐ 5.9: solving right triangles	8	
		☐ 5.10: applications	15	87 min
01/13/27	week 18	☐ 6.1: graphs of the sine function	38	
	T5	☐ 6.2: graphs of the cosine function - practice some in class	18	
	6A	☐ 6.3: sinusoidal graphs	22	
	6B	☐ 6.4: phase shifts	17	57 min

1/20/2027	week 19	☐ 6.6: simple harmonic motion	14	
	6C	☐ 6.5: combining waves	23	
		☐ 6.7: graphs of the tangent function	10	
		☐ 6.8: graphs of cosecant, secant, cotangent	16	
		☐ 6.9: inverse sine	10	59 min
1/27/2027	week 20	☐ 6.10: inverse cosine	4	
	6D	☐ 6.11: inverse tangent	4	
	7A	☐ 6.12: expressions involving trig functions	10	
		☐ 7.1: trigonometric identities	27	
		☐ 7.2: sum and difference formulas	33	70 min
2/3/2027	week 21	☐ 7.3: more sum and difference formulas	12	
	T6	☐ 7.4: double angle formulas	14	
	7B	☐ 7.5: half angle formulas	7	
	7C	☐ 7.6: sum to product and product to sum formulas	3	
	7D	☐ 7.7: trigonometric equations	15	
	7E (F)	☐ 7.8: more trigonometric equations	31	56 min
2/10/2027	week 22	☐ 8.1: law of sines	12	
	T7	☐ 8.2: the ambiguous case	27	
	8A	☐ 8.3: applications	11	
	8B	☐ 8.4: law of cosines	14	
	8C	☐ 8.5: area of a triangle	7	59 min
2/17/2027	off!	Winter break - catch up week!!		
2/24/2027	week 23	☐ 8.6: polar coordinates	13	
	8D E	☐ 8.7: polar and rectangular conversion	27	
	8F	☐ 8.8: polar equations graph	12	
		☐ 8.9: more polar equations and graphs	21	
		☐ 8.10: even more polar equations and graphs	5	65 min
3/3/2027	week 24	☐ 8.11: complex numbers	41	
	8G H	Practice 8.11 and anything else in class		
	8I	☐ 8.12: DeMoivre's theorem	9	
3/10/2027	week 25	☐ 9.1: Conic Sections	5	
	T8	☐ 9.2: Parabolas	26	
	9A	☐ 9.3: translation of parabolas	20	
		☐ 9.4: Ellipses	23	69 min
3/17/2027	week 26	☐ 9.5: translation of ellipses	32	
	9B	☐ 9.8: general form of a conic	8	
	9C	☐ 9.6: Hyperbolas	15	
		☐ 9.7: translation of hyperbolas	16	
		☐ 9.9: parametric equations	23	
		☐ 9.10: parametric equations on a calculator	15	77 min
3/24/2027	week 27	☐ 10.1: solving systems	15	
	T9	Practice with ch 9, esp. parametric equations	20	
	10A	☐ 10.2: more solving systems	11	
		☐ 10.3: even more solving systems	22	53 min
3/31/2027	week 28	☐ 10.4: matrix notation just videos a & b	7	
	10B	☐ 10.4: matrix notation finish in class	13	
	10C	☐ 10.5: echelon form	15	

		☐ 10.6: determinants	28	56 min
04/07/27		SPRING BREAK!!		
4/14/2027	week 29	☐ 10.7: <i>nonlinear systems</i>	17	
	10 E F	☐ 10.8: systems of inequalities	29	
		☐ 11.1: sequences, etc. Begin in class	30	59 min
4/21/2027	week 30	☐ 11.1: <i>sequences, etc. finish at home</i>	10	
	T10	☐ 11.2: factorials, redursion, summation notation	42	
	11A	☐ 11.3: arithmetic sequences and series	19	
	11B	☐ 11.4: geometric sequences and series	18	79 min
4/28/2027	week 31	☐ 11.5: mathematical induction	44	
	11C	☐ 11.6: the binomial theorem	32	76 min
5/5/2027	week 32	No chapter 11 test!! - but it will appear on the final exam!		
		EXAM REVIEW - in class		
		final exam due by 5/18		