

Mrs. Bandy

Precalculus Syllabus 2024-25 (subject to small changes)

Wednesdays @ Metro, Thursdays @ Eastside

total:

Weds:*** Lessons in italics should be completed at home BEFORE class**

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

23-Oct week 10	<input type="checkbox"/> 3.13: zeros of a polynomial	19	
3D	<input type="checkbox"/> 3.11: division of polynomials	23	
	<input type="checkbox"/> 3.12: synthetic division	16	
	<input type="checkbox"/> 3.14: finding real zeros	41	80 min
30-Oct week 11	<input type="checkbox"/> 3.15: approximating real zeros videos 3.15a - e only	11	
3E	<input type="checkbox"/> 3.16: fundamental theorem of algebra	8	
(3F) (3G)	<input type="checkbox"/> 3.15: approximating real zeros - Intermediate Value Thm	7	
	<input type="checkbox"/> 3.17: complex polynomials	17	
	<input type="checkbox"/> 4.1: exponential and logarithmic functions	39	
	<input type="checkbox"/> 4.2: the base e	16	79 min
6-Nov week 12	<input type="checkbox"/> 4.3: logarithmic functions	12	
T3	<input type="checkbox"/> 4.4: graphs of logarithmic functions	12	
4A	<input type="checkbox"/> 4.5: properties of logarithms	25	
4B	<input type="checkbox"/> 4.6: logarithms on a calculator	13	50 mn
13-Nov week 13	<input type="checkbox"/> 4.7: logarithmic equations	13	
4C	<input type="checkbox"/> 4.8: exponential equations	30	
	<input type="checkbox"/> 4.9: compound interest	17	
	<input type="checkbox"/> 4.10 more compound interest	13	60 min
20-Nov week 14	<input type="checkbox"/> 4.13: logarithmic scales	18	
4D	<input type="checkbox"/> 4.11: growth and decay	17	
(4E)	<input type="checkbox"/> 4.12: radioactive decay	26	43 min
27-Nov	THANKSGIVING BREAK		
4-Dec week 15	REVIEW DAY in class		
T4	**exam review packet!**		61 min
11-Dec week 16	<input type="checkbox"/> 5.1: angles and degrees	32	
5A	<input type="checkbox"/> 5.2: circular motion	31	
	<input type="checkbox"/> 5.3: the unit circle	20	
	<input type="checkbox"/> 5.4: trig functions of common angles	35	86 min
midterm exam due by 12/16/2022			
Precalculus Spring Semester			
8-Jan week 17	<input type="checkbox"/> 5.5: domain and range of trig functions	27	
5B	In Class: quick review of the unit circle	12	
5C	<input type="checkbox"/> 5.6: fundamental identities	25	
5D	<input type="checkbox"/> 5.7: right triangle trigonometry	13	
	<input type="checkbox"/> 5.8: reference angles	14	
	<input type="checkbox"/> 5.9: solving right triangles	8	
	<input type="checkbox"/> 5.10: applications	15	87 min
15-Jan week 18	<input type="checkbox"/> 6.1: graphs of the sine function	38	
T5	<input type="checkbox"/> 6.2: graphs of the cosine function - practice some in class	18	
6A	<input type="checkbox"/> 6.3: sinusoidal graphs	22	
6B	<input type="checkbox"/> 6.4: phase shifts	17	57 min
22-Jan week 19	<input type="checkbox"/> 6.6: simple harmonic motion	14	
6C	<input type="checkbox"/> 6.5: combining waves	23	
	<input type="checkbox"/> 6.7: graphs of the tangent function	10	
	<input type="checkbox"/> 6.8: graphs of cosecant, secant, cotangent	16	
	<input type="checkbox"/> 6.9: inverse sine	10	59 min

29-Jan week 20	<input type="checkbox"/> 6.10: inverse cosine	4	
6D	<input type="checkbox"/> 6.11: inverse tangent	4	
7A	<input type="checkbox"/> 6.12: expressions involving trig functions	10	
	<input type="checkbox"/> 7.1: trigonometric identities	27	
	<input type="checkbox"/> 7.2: sum and difference formulas	33	70 min
5-Feb week 21	<input type="checkbox"/> 7.3: more sum and difference formulas	12	
T6	<input type="checkbox"/> 7.4: double angle formulas	14	
7B	<input type="checkbox"/> 7.5: half angle formulas	7	
7C	<input type="checkbox"/> 7.6: sum to product and product to sum formulas	3	
7D	<input type="checkbox"/> 7.7: trigonometric equations	15	
	<input type="checkbox"/> 7.8: more trigonometric equations	31	56 min
12-Feb week 22	<input type="checkbox"/> 8.1: law of sines	12	
T7	<input type="checkbox"/> 8.2: the ambiguous case	27	
8A	<input type="checkbox"/> 8.3: applications	11	
8B	<input type="checkbox"/> 8.4: law of cosines	14	
8C	<input type="checkbox"/> 8.5: area of a triangle	7	59 min
19-Feb off!	Winter break - catch up week!!		
26-Feb week 23	<input type="checkbox"/> 8.6: polar coordinates	13	
8D E	<input type="checkbox"/> 8.7: polar and rectangular conversion	27	
8F	<input type="checkbox"/> 8.8: polar equations graph	12	
	<input type="checkbox"/> 8.9: more polar equations and graphs	21	
	<input type="checkbox"/> 8.10: even more polar equations and graphs	5	65 min
5-Mar week 24	<input type="checkbox"/> 8.11: complex numbers	41	
8G H	Practice 8.11 and anything else in class		
8I	<input type="checkbox"/> 8.12: DeMoivre's theorem	9	
12-Mar week 25	<input type="checkbox"/> 9.1: Conic Sections	5	
T8	<input type="checkbox"/> 9.2: Parabolas	26	
9A	<input type="checkbox"/> 9.3: translation of parabolas	20	
	<input type="checkbox"/> 9.4: Ellipses	23	69 min
19-Mar week 26	<input type="checkbox"/> 9.5: translation of ellipses	32	
9B	<input type="checkbox"/> 9.8: general form of a conic	8	
9C	<input type="checkbox"/> 9.6: Hyperbolas	15	
	<input type="checkbox"/> 9.7: translation of hyperbolas	16	
	<input type="checkbox"/> 9.9: parametric equations	23	
	<input type="checkbox"/> 9.10: parametric equations on a calculator	15	77 min
26-Mar week 27	<input type="checkbox"/> 10.1: solving systems	15	
T9	Practice with ch 9, esp. parametric equations	20	
10A	<input type="checkbox"/> 10.2: more solving systems	11	
	<input type="checkbox"/> 10.3: even more solving systems	22	53 min
2-Apr week 28	<input type="checkbox"/> 10.4: matrix notation just videos a & b	7	
10B	<input type="checkbox"/> 10.4: matrix notation finish in class	13	
10C	<input type="checkbox"/> 10.5: echelon form	15	
	<input type="checkbox"/> 10.6: determinants	28	56 min
9-Apr	SPRING BREAK!!		

16-Apr week 29	<input type="checkbox"/> 10.7: nonlinear systems	17	
10 E F	<input type="checkbox"/> 10.8: systems of inequalities	29	
	<input type="checkbox"/> 11.1: sequences, etc. Begin in class	30	59 min
23-Apr week 30	<input type="checkbox"/> 11.1: sequences, etc. finish at home	10	
T10	<input type="checkbox"/> 11.2: factorials, recursion, summation notation	42	
11A	<input type="checkbox"/> 11.3: arithmetic sequences and series	19	
11B	<input type="checkbox"/> 11.4: geometric sequences and series	18	79 min
30-Apr week 31	<input type="checkbox"/> 11.5: mathematical induction	44	
11C	<input type="checkbox"/> 11.6: the binomial theorem	32	76 min
7-May week 32	No chapter 11 test!! - but it will appear on the final exam!		
	EXAM REVIEW - in class		
	final exam due by 5/23/2025		
	*work submitted by 5/20 will be eligible for corrections		