

LENHOF, MAC 1114, Spring 2014

TENTATIVE COURSE CALENDAR:

* All Dates and Assignments are tentative. Changes in the syllabus and/or course outline, schedule, and/or homework assignments may be made at any time by announcement of the professor.

Drop/Full Refund Deadline: January 6th

Withdrawal Deadline for "W" status: March 21st

DATE	IN-CLASS	HOMEWORK
Jan 6	Introduction, Syllabus, Syllabus Quiz	Syllabus Questionnaire
Jan 8	Angles, Degrees, & Arcs	1.1 pg. 10 # 5, 7, 8, 9, 47, 51, 57, 61
Jan 10	Similar Triangles	1.2 pg. 18 # 5, 13, 21, 29
Jan 13	Trig Ratios & Right Triangles	1.3 pg. 31 # 17, 21, 31, 35, 41, 43, 69 & Handout
Jan 15	Right Triangle Applications	1.4 pg. 37 # 1, 3, 13, 19, 25
Jan 17	Right Triangle Applications Trig Functions: Unit Circle Approach	1.4 pg. 38 # 14, 17, 23, 27, 41 2.3 pg. 81 # 11, 13, 17, 31, 39, 49, 51, 53
Jan 20	<i>Martin Luther King, Jr Holiday</i>	<i>Class Does Not Meet</i>
Jan 22	Exact Values of Trig Functions	2.5 pg. 110 # 17, 18, 19, 21, 23, 27, 33, 41
Jan 24	Trig Functions: Unit Circle Approach	2.3 pg. 81 # 15, 55, 59, 77, 79
Jan 27	Properties of Trigonometric Functions and Fundamental Identities	2.5 pg. 111 # 25, 29, 31, 35, 37, 39, 71, 73, 75, 77
Jan 29	Degrees & Radians	2.1 pg. 61 # 37, 39, 43, 45 (exact measure only) 49 radians only, 51a, 77 Practice Test 1, located on my website under additional resources.
Jan 31	Review for Test 1	Study for Test 1
Feb 3	Test 1 – Ch 1 & 2, Non-Calculator	
Feb 5	Test 1 – Ch 1 & 2, Calculator	
Feb 7	<i>Learning Day</i>	<i>Class Does Not Meet</i>
Feb 10	Basic Graphs	3.1 pg. 136 # 9-14, 19, 20, 22, 23, 27, 29, 31, 33
Feb 12	Graphing $y = k + A \sin Bx$ and $y = k + A \cos Bx$	3.2 pg. 151 # 7, 8, 9, 11, 13, 15, 17, 19, 21, 31, 35, 63, 65
Feb 14	Graphing $y = k + A \sin(Bx + C)$ and $y = k + A \cos(Bx + C)$	3.2 pg. 153 # 23, 27, 29, 71 3.3 pg. 167 # 17, 19, 21, 23, 27, 29, 31, 32, 33, 34, 35, 37, 39, 47, 49, 61. For 35 & 37 find equations in the form $\sin(x)$, $-\sin(x)$, $\cos(x)$, and $-\cos(x)$
Feb 17	Tangent, Cotangent, Secant, & Cosecant Functions Revisited	3.6 pg. 209 # 7-10, 11, 13, 15. Use calculator to graph also find the vertical asymptotes by finding where the denominator is 0. Practice Test 2, located on my website under additional resources.
Feb 19	Review for Test 2	Study for Test 2
Feb 21	Test 2 – Ch 3, Non-Calculator	
Feb 24	Test 2 – Ch 3, Calculator	
Feb 26	Solving Trig Equations	Supplement # 1-12, 13-20, 23, 24, 25, 27-29, 30, 31, 34, 35
Feb 28	Trigonometric Equations: An Algebraic Approach	5.3 pg. 324 # 21, 25, 65 Supplement work any problems not previously completed
Mar 3-7	<i>Spring Break</i>	<i>Class Does Not Meet</i>
Mar 10	Law of Sines	6.1 pg. 361 # 11, 21, 25, 57, 59, 61
Mar 12	Law of Cosines	6.2 pg. 373 # 51, 53, 55, 58, 59
Mar 14	Vectors	6.4 pg. 396 # 5, 9, 13, 17, 19, 23, 25, 33, 35, 37, 43, 47
Mar 17	Dot Product	6.5 pg. 407 # 5, 9, 13, 15, 9, 21, 23, 25, 27, 29, 31, 35, 37, 41 Practice Test 3, located on my website under additional resources.

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Mar 19	Review for Test 3	Study for Test 3.
Mar 21	Test 3 – Ch 5 & 6, Non-Calculator	Withdrawal Deadline for "W"
Mar 24	Test 3 – Ch 5 & 6, Calculator	
Mar 26	Fundamental Identities & Their Use	<u>4.1</u> pg. 234 # 69, 71 & Handout
Mar 28	Verifying Trigonometric Identities	<u>4.2</u> pg. 243 # 19, 21, 25, 27, 31, 33, 39, 49, 53, 55, 59
Mar 31	Sum, Difference, & Cofunction Identities	<u>4.3</u> pg. 254 # 41, 43, 44, 47, 49, 55, 56 <u>4.2</u> pg. 244 # 32, 43, 44, 83, 87
Apr 2	Double Angles &	<u>4.4</u> pg. 263 # 16, 19, 45, 47, 49, 51, 63, 65, 83
Apr 4	Half Angles	<u>4.4</u> pg. 263 # 49, 51, 63, 65
Apr 7	Product-Sum & Sum-Product Identities	<u>4.5</u> pg. 273 # 1, 3, 7, 13, 15, 17, 21, 45, 47 Practice Test 4, located on my website under additional resources.
Apr 9	Review for Test 4	Study for Test 4.
Apr 11	Test 4 – Ch 4, Calculator Allowed	
Apr 14	Polar & Rectangular Coordinates	<u>7.1</u> pg. 429 # 5, 7, 13, 17, 23, 25, 31, 33, 53, 57, 61, 65, 67, 69, 73, 79
Apr 16	Sketching Polar Equations	<u>7.2</u> pg. 5, 7, 9, 11, 13, 19, 21, 23, 25 Practice Final Exam, located on my website under additional resources.
Apr 18	Review for Final Exam Grade Status	
Apr 21	<i>Finals Week</i>	<i>Class Does Not Meet</i>
Apr 23	FINAL EXAM	FINAL EXAM TIME: 10:00 am – 12:30 pm Bring your completed practice exam for extra credit!