

Math 41.24

PreCalculus : Theory and Functions

Fall 2018

E-mail: rnicoletti@mitty.com

Time: Monday and Wednesday from 4 p.m. to 6:15 p.m.

Instructor: Ron Nicoletti **Room:** MLC 109

Prerequisite: Math114 or equivalent with a grade of C or better.

Course Description: This course, in combination with Math 42 (Trigonometry) and Math 43 (Functions) will prepare students to take the Calculus sequence. This course includes an in-depth study of polynomial, rational, exponential and logarithmic functions. Equations involving logarithms and exponentials will also be covered. Graphing each of the functions named above will also be covered.

Office Hours: 30 minutes before each session in the Math Tutorial Center, S43

Textbook: Pre Calculus with Limits. 3rd edition (required).

Related Materials: TI-84, TI 84 Plus, TI 84 Plus C graphing calculator is required

Attendance: Attendance is mandatory. The last day to drop with no grade is October 7 ; the last day to drop with a "W" is November 16 . If paperwork for a drop is not completed by the student, a grade of F will be given for the quarter.

Assignments: Problems will be assigned at the end of each class session. These problem sets need to be attempted on a class –to- class basis. Time will be set at the beginning of each class to answer questions from the problem set. Homework will carry a value of 5 points per class session.

Quizzes: There will be 3 quizzes modeling problems from the homework. The total points available for quizzes will be 100 points. If you miss a quiz it will count as a "zero". There are no makeups for missed quizzes. Quizzes 1 and 2 will each be worth 33 points while quiz 3 will be worth 34 points. Calculators may or may not be allowed.

Tests: There will be three exams given and each exam is worth 100 points. Your lowest exam score can be replaced by your final exam score. If you miss an exam it will count as a "zero", and this will count as your lowest exam score. The total points available for exams will be 300 points. Calculators will be required on all exams.

Final Exam: A comprehensive final exam will be given and carries a value of 200 points. The final exam will be given on Wednesday December 12, at 4 p.m. The final exam must be taken on this assigned date or a final quarter grade of F will be given. Calculator will be required for the final.

Grading: Your quarter grade will be determined with the following scale:

620 - 670	A	520 – 532	C+
600 - 619	A-	466 – 519	C
587 - 599	B+	399 - 465	D
553 - 586	B	Below 399	F
533 –552	B-		

Office Hours: Monday and Wednesday from 3:35 – 3:55 in the Math Tutorial Center S43

Math 41 Assignment Sheet

Date	Section:	Problems:
9/24	App 5	Pg A56 8,11,13,15,20,27,34,37
	App 6	41, 43,49,55,63,78,80,83,85,89 pg A64 19,27,37,49,53,83,85,91
9/26	App 6	Same as above
	1.2	Pg 19: 23,25,29,31,35,36,41,47,49,55, 69,71,75,81
10/1	1.2	Same as above
	1.3	Pg 31 17,20,21,29,49,51,55,57,67, 73,75
10/3	1.3	Same as above
	1.4	Pg 44 9,23,25,27,31,33,39,42,45,47,49 ,51,53,57,68
10/8	1.5	Pg 56 9,10,12,13,17,20,23,33,35,37,51 53,57,67,69
	1.6	Pg 65 17,19,21,24,25,26,36,37
10/10	1.7	Pg 72 9,11,13,21,23,26,31,35,43,47,50 51,52,57
	1.8	Pg 81 5,7,11,15,17,20,23,31,32,33,37, 39,41
10/15	1.9	Pg 90 9,10,11,13,15,29,37,38,47,50,51 68
	rev Ex 1	
10/22	2.1	Pg 120 7-12 all, 14,17,21,29,31,39,40,43,47,51, 61,69,71,73,76,88
	2.2	pg 133 9-14 all, 15,17,19,21,23,27,37,41,45,49, 51,53,59,61,67,69,70,75,79,85, 97,100
10/24	2.2	Same as above
	2.3	Pg 144 11,15,16,17,27,29,34,39,57,59, 61,65,75,77
10/29	2.4	Pg 152 7,10,11,15,19,23,27, 33,37,39,45,51,53,65,69,73
	2.5	Pg 164 9-13 all, 19,23,25,29,31,37,39,41,47

		55,57,58,63,71,87,92,111
10/31	2.5	Same as above
	2.6	Pg 177 9,11,15,17,21,27,31,37,49,51,57
11/5	2.7	Pg 187 13,17,25,33,41,43,75
	rev exam2	
11/12	3.1	Pg 208 7,10,13-16 all, 23,24,25,31,33,35,37,41,53
	3.2	Pg 218 7-21 odd, 25,27,28,33,35,41,43,45,49,51, 53,55,65,67
11/14	3.2	Same as above
	3.3	Pg 225 7,8,11,12,15-35 odd 41,45,51,67,71,73
11/19	3.3	Same as above
	3.4	pg 235 17,19,23,25,30,40,41,45,49,54, 57,61,63,69
11/21	3.4	Same as above
	3.5.	Pg 245 7,9,13,15,33,34,36,42
11/28	10.2	Pg700 17,23,25,35,36,,43,51,53,69
	10.3	Pg 710 5-8 all,11,13,17, 21,25,27,33,37,39,43,45
12/3	10.3	Same as above
	10.4	Pg 720 5-8 all, 9,11,13,19,23,27,29,31,39,43
12/5	review	
12/12	Final	4 pm

Student Learning Outcome(s):

*Investigate, evaluate, and differentiate between algebraic and transcendental functions in their graphic, formulaic, and tabular representations.

*Synthesize, model, and communicate real-life applications and phenomena using algebraic and transcendental functions.