

Ranger College
College Algebra
Fall 2008

Catalog Course Description: A study of the elementary functions: linear, quadratic, polynomial, rational, radical, exponential, logarithmic, sequences. Graphing and solving equations, solving inequalities, and applications of these functions. Solving systems of equations and matrix algebra. Introduction to conic sections.

Instructional Method: New material will be covered primarily on MWF allowing for T/Th class meetings to be used for completion of assignments or reteaches. All class assignments will be due at the beginning of the period on MWF.

Grading Policy: Grades will be distributed on a four point scale based on the students test average. Students will have the opportunity to substitute their homework average for their lowest test grade. There will be no retest given for failing test grades. Homework assignments will be graded as follows:

% satisfactorily completed	score
$x > 75\%$	4
$50\% < x \leq 75\%$	3
$25\% < x \leq 50\%$	2
$x \leq 25\%$	1

The following outline will be used to guide this course.

Chapter 1 Functions, Graphs, and Models

M	8-25	pg 14: 15, 16, 23, 24, 25, 26, 33, 34, 37, 49 pg 35: 1-18
W	8-27	pg 36: 21, 23, 32, 34, 40, 42, 48, 58, 59, 63-66, 75a, pg 51: 4, 8, 9, 13, 16, 26, 28, 30
F	8-29	pg 52: 31, 35, 40, 47, 58, 60, 62, 80, 85, 86 pg 68: 4, 5, 6, 11, 12, 15, 16, 20, 21
M	9-1	No School Labor Day
W	9-3	pg 68: 27-31, 36-58e pg 82: 14, 16, 20, 22, 24, 36, 39, 65, 66
F	9-5	pg 99: 2-24e, 34, 35, 37, 46, 48, 50, 51, 58, 62, 70, 82
M	9-8	Test Review Chapter 1

Chapter 2
Modeling with Linear and Quadratic Functions

W	9-10	Chapter 1 Test
F	9-12	pg 130: 4-52 mult of 4, 58, 60, 63, 64, 96, pg 147: 4-40 mult of 4
M	9-15	pg 148: 51-58, 63, 65, 66, 86, 88 pg 162: 1, 4, 6, 13-18
W	9-17	pg 163: 20, 22, 26, 30, 36, 38, 40, 42, 44, 66, 68, 73 pg 178: 2-26e
F	9-19	pg 178: 36-50e, 60 pg 192: 4-24 mult of 4
M	9-22	pg 192: 28-64 mult of 4, 95, 96, 100 pg 208: 16-36 mult of 4
W	9-24	pg 209: 57, 58 pg 220: 20-56 mult of 4, 80, 82
F	9-26	Test Review Chapter 2
M	9-29	Chapter 2 Test

Chapter 3
Polynomial and Rational Functions

W	10-1	pg 256: 1-4, 6, 8, 10, 13, 16, 36-56 mult of 4, 67, 68, 93, 94
F	10-3	pg 285: 2, 6, 9, 10, 16, 18, 27, 28, 31, 32, 38-50e
M	10-6	pg 304: 1-4, 6, 8, 14, 16, 21-24, 28, 30, 36, 50, 52
W	10-8	Test Review Chapter 3
F	10-10	Chapter 3 Test
M	10-13	No School

Chapter 4
Exponential and Logarithmic Functions

W	10-15	pg 329: 2, 6, 10, 11, 15, 17, 26, 28, 32, 34, 36, 42, 48, 50, 56, 58, 88, 90, 99
F	10-17	pg 343: 2, 4, 6, 8, 10 pg 356: 4-72 mult of 4, 89, 90
M	10-20	pg 364: 4, 5, 11, 12, 17 pg 371: 4-36 mult of 4, 68, 69
W	10-22	Test Review Chapter 4
F	10-24	Chapter 4 Test

Chapter 5
Systems of Linear Equations in Two Variables

M	10-27	pg 397: 6-30e, 46, 48, 51
W	10-29	pg 411: 1, 3, 6, 21, 22, 29, 43 pg 425: 5, 25, 26, 29, 33, 35, 36, 43, 53, 54, 55
F	10-31	pg 441: 15, 17, 30, 34, 38

Chapter 6
Matrices and Determinants

M	11-3	pg 479: 3-5, 7, 10, 15, 18, 27-30, 34, 41 pg 494: 5, 13, 23, 25, 29, 33, 34,
W	11-5	pg 503: 14, 17, 19, 22, 23, 25, 29, 33, 34, 45
F	11-7	Test Review Chapters 5 and 6
M	11-10	Chapters 5 and 6 Test

Chapter 8
Additional Topics in Analytic Geometry

W	11-12	pg 629: 2-8e, 24, 26, 28, 30, 49
F	11-14	pg 641: 2, 6, 7-10, 12, 14, 18, 19, 22-26
M	11-17	pg 657: 1-4, 5, 6, 11, 12, 19, 22, 25,

Chapter 7
Sequences, Induction, and Probability

M	11-19	pg 548: 3, 9, 12, 23, 25, 29, 35
W	11-21	pg 568: 3, 7, 9, 13, 15, 19, 27, 51, 55, 59
F	11-24	pg 609: 9-15 odd, 21, 27, 33, 45
M	12-1	Test review Chapters 7 and 8
W	12-3	Chapters 7 and 8 Test

Final Exam Preparation

Final Exam: Wednesday, December 10