

## MTH 034

### Course Outline

**Text:** *Intermediate Algebra 3<sup>rd</sup> edition*, Schaum's Outlines. Ray Steege, Kelly Bailey. ISBN 978-1-260-12074-5

**Description:** MTH 034 serves two purposes: to assist and ensure that the homework in a co-requisite MTH 122 course is being done in a timely and accurate manner; and to ensure that the foundational skills of intermediate algebra are fully mastered. It is expected that half of each class will be devoted to each. This syllabus pertains to the intermediate algebra portion of the course.

Lesson	Description	Assignment Supplementary Problems
1	Linear and Literal Equations (Sections 4.1-4.3)  Use of TI 83/84 Plus	p129: 4.2 a, c, e, g, i, k p130: 4.7 a, c, e, g Handout #1
2	8.4 Linear Equation Forms  Lines: slope, point-slope, and slope-intercept form	p129: 4.3 c, e, f p130: 4.4 a, b, d, e p283: 8.8 a, b, c p284: 8.10 b, c p284: 8.13 a, c
3	Lines: slope, parallel  Microsoft Excel Basics	P284: 8.9 a, b P284: 8.14 a,b Handout #2
4	7.1 Linear System in 2 Variables	P252: 7.1 a, b P252: 7.2 a, c, e
5	5.1 Exponents (integer powers) 5.2 Scientific notation	P167: 5.1 e, f, g, h P168: 5.2 c, e, g, i, j P168: 5.3 a, c, e P168: 5.4 a, c, d, f P168: 5.5 a, b, c
6	5.3 Rational Exponents and Roots 5.4 Radical notation	P168: 5.7 b, d, f P168: 5.8 a,c,e,g,i
		P169: 5.9 a,c,e P169: 5.10 b,d,f,g,h
		P169: 5.11 b,d,f,h, i P169: 5.12 b,d,f

Lesson	Description	Assignment
7	Functions	P283: 8.2 a, c P283: 8.3 a - f P283: 8.4 a, c, d, f
8	Polynomials (Chapter 2)	P68: 2.1 a, b, c, d, e
	2.1 Definitions	P68: 2.3 a, c, e
	2.1 Factoring	P69: 2.12 a, c, e, f
9	5.6 Complex numbers: addition, subtraction and multiplication, division	P169: 5.16 d-r
10	6.1 Solving by Factoring and Square Root Methods 6.2 Completing the Square and the Quadratic Formula Quadratic expression, the quadratic equation	P210: 6.1 a, c, e, g P211: 6.2 a, c, e P211: 6.3 a,b P211: 6.4 a, b P211: 6.5 b, c
11	6.6 Graphing quadratic equations	P212: 6.11 a, d, e, f P212: 6.12 a-c P212: 6.13 a, c, d, e
12	Exponential and Logarithmic Functions	P312: 9.1 a,b,c P312: 9.3 c,d P312: 9.4 c,d P312: 9.10 a,c,e P312: 9.11 a, c, e
13	Applications of Exponential and Logarithmic Functions	P313: 9.14 P313: 9.20,9.21,9.23, 9.26 P313: 9.27
14	Practice for MTH 122 final exam	