MTH 1280 (4 semester hours)
DEPARTMENTAL SYLLABUS

8/15

COORDINATOR: Karen Brackenridge (karen.brackenridge@wright.edu)
PREREQUISITES: Placement test on ALEKS of 46 or better, ACT of 22 or better, SAT of 520 or better, OR finishing first 4 modules of DEV 0970
TEXT (bound or e-book): <u>Algebra and Trigonometry, Fourth Edition</u> by Stewart, Redlin, & Watson
ONLINE HOMEWORK REQUIRED: WebAssign (code comes with paperback bound book or can be purchased separately which gives access to e-book, previously purchased codes for other courses will not work)
CALCULATOR: TI 81-86 or equivalent calculator required, calculators with symbolic manipulation like TI 89 not permitted, rentals available with refundable deposit through Math Learning Center, 31 Library

Chapters/Sections		Problem List ÷3* means every 3rd prob. (Instructor may add or delete)	Comments	Allotted # 55 min. class meetings
P/1-8 Prerequisites	P1-P2-intro	No assigned problems	Mention use of a model in P1 and set notation & scientific notation on calculator (use of E) in P2, focus on special formulas in P5	1 each section except 2 days for P7
	P3-int. exp.	12-33 ÷3* (so 12,15,18,etc.)		
	P4-rat. exp.	59-85 odd,94		
	P5-alg. exp.	15-75 every 6th (so 15,21,etc.), 78,90		
	P6-factoring	12-54 ÷3*,63-99 ÷3*,117		
	P7-rational	15,19,27,33,39,43,55,59,65,98		
	P8-eq.	12-63 ÷3*,93,96,102,106		8 days total
1/1-4,6-8 Equations and Graphs	1.1-plane	21-31odd,35,37,41	Do geometry appl. & work but no drt in 1.4, also discuss *i* for negative discriminant & definition, do 1.8 before 1.7 & review set notation	1 each except 2 days ea. for 1.2 & 1.7 and 3 days for 1.4
	1.2-circle	10,27,48,59,67-85odd		
		12-33 ÷3*,39,42,55-57,62-63		
	1.3-lines	9-51 ÷3*,87,90, systems handout		
	1.4-quad.	6-60 ÷3*,67,70,74,85,91		
	1.6-other eq.	6-57 ÷3*,80		
	1.8-abs. val.	10,12,27-37odd,57		
	1.7-ineq.	15-63 every 6th,79,82		11 days total
2/1-8 Functions	2.1-func.	17-25odd,31-43odd,44,51-65odd, 83,86	Discuss 4 ways p.190, focus on slope as rate of change in 2.4-2.5	1 each except 2 days for 2.1
	2.2-graphs	4,6-24 ÷3*,33-41odd,51-59odd,81		
	2.3-info	7,9,11,15,31,43,45,55,59		
	2.4-ave. rate	7-25odd,30,37-38		
	2.5-linear	9-33 ÷3*,43,47,50		
	2.6-trans.	9-69 ÷3*		
	2.7-comb.	9-57 ÷3*,63-64,76,80		
	2.8-1 to 1	7-17,25-26,29,37,39,49,51,71,97		9 days total
3/1-3,5-6 Polynomial and Rational Functions & Modeling	3.1-quad.	6-54 ÷3*	Skip drt on p.273, no book hmwk. from 3.3 & 3.5, skip slant in 3.6	2 each except 3 days for p.273
	p.273-model	1-11odd,19,21,23,24,26,29		
	3.2-poly.	9-42 ÷3*,45,51-54		
	3.3,3.5	Handout Div. Poly. & Fund. Thm.		
	3.6-rat.	15-42 ÷3*,43,45,49,51,57,89		11 days total
4/1-5 Exponential and Log Functions	4.1-exp.	9-39 ÷3*,53,57,59,61-62		1 each except 2 days ea. for 4.3, 4.4, & 4.5
	4.2-e	7-15odd,23,27,33,36-37		
	4.3-logs	9-66 ÷3*,96-97,99		
	4.4-laws	9-45 ÷3*,49-55odd,59-60,73		
	4.5-eq.	12-36 ÷3*,51-66 ÷3*,89,91,95,99		8 days total

47 days total, leeway is 7-8 days for tests, review, more time on individual sections, etc.

COMPONENTS FOR GRADE (uniform for all sections)

Test #1	13%	Recommended covering P3-1.6	(11 sections)
Test #2	13%	Recommended covering 1.7-2.8	(10 sections)
Test #3	13%	Recommended covering 3.1-4.5	(11 sections, minimal from 3.3,3.5))
		(all tests made by instructor)	

Note: At his/her discretion, the instructor may choose to give four tests instead of three, but they must all be equal in weight and collectively add to 39% of the course grade (i.e. each one would be worth 9.75%).

Common final	25%	Made and graded by all instructors of MTH 1280
WebAssign	21%	Online homework set up by course coordinator
Instructor quizzes, assignments, etc.	15%	Made by instructor

WEBASSIGN INFORMATION (ONLINE HOMEWORK COMPONENT)

Students are required to obtain a WebAssign code and add themselves to the instructor's course (webassign.com). The code (i) is either bundled with each new copy of the paperback version of the textbook OR (ii) can be purchased separately, automatically providing access to the e-book version of the text. NOTE: THE WEBASSIGN CODE IS GOOD FOR THE LIFETIME OF USE OF THE MOST CURRENT EDITION (now the 4th edition) of the textbook. This same textbook is being used for MTH 1350 (Analytic Geometry and Trigonometry), so the book and code will be valid for that course as well at no additional cost. If students purchase a used bound copy or other version of the textbook, the WebAssign code will probably not be valid (since the previous owner would have used it), so access to WebAssign will still need to be purchased.

Instructors will be given WebAssign profiles, and they will need to add the Stewart book to their profiles. The course coordinator will provide pre-made WebAssign assignments for use throughout the course. The instructors need to set their own due dates for these assignments, and they have the option to delete or add problems to the assignments. Individual instructors may also add additional assignments as needed.