Department of Mathematics, CCNY Math 19000: PreCalculus Instructor Course Syllabus Fall 2015

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The WebAssign Homework System will be used in all sections. There will be a uniform final examination in all day sections.

Course information for Math19000 students:

This course utilizes the online WebAssign homework system. **Students have a choice** between logging in to webassign.net as described below and then paying just \$80 for WebAssign and e-book access, or purchasing the above WebAssign/ebook package in the bookstore, or

purchasing the loose-leaf text (WebAssign access card included) for about \$110 in the bookstore.

How to get started with WebAssign

1. Go to URL <u>www.webassign.net</u> .

2. Click I Have a class key, located under the login button.

3. Enter the three parts of the instructor-provided class key in the three boxes. Then click Submit.

4. If your class is listed correctly, click on Yes this is my class. If not, try again: perhaps you typed the Class Key incorrectly. If you still get the message No, this is not my class, email your instructor.

4. Choose I need to create a WebAssign account and click Continue.

5. Enter your desired username, password (twice) as well as First Name, Last Name, Email address in the appropriate boxes. DO NOT enter a Student ID Number. Click Create My Account.

6. Click Log In Now.

7.If you have purchased a textbook, choose enter an Access Code and click Continue. If not, choose continue my trial period and click continue. Your free trial period lasts about two weeks from that date.

9. Click on Log out at the upper right of the screen.

Remember that students will not be allowed to use calculators on the final examination, and therefore you should hold to an absolute minimum (or zero) the number of calculator-related questions in your homework assignments.

Instructor Syllabus for Math 19000 Text: Stewart-Redlin-Watson pre-Calculus, 7th edition ISBN 9781305586024 (loose-leaf with WebAssign and electronic access)

Section	Comments	Suggested questions include
1.1 Real numbers		29-32,47-72
1.2 Exponents and radicals	Skip scientific notation.	7-44,49-79
1.3 Algebraic expressions	Students need not memorize factoring	15-22,31-58,63-78,97-113
	difference and sums of cubes.	
1.4 Rational expressions	Sometimes helpful to point out the	7-75
	"Avoiding Common Errors" table.	
1.5 Equations	Students can pick which method to use	13-29,45-80,87-102, 117
	to solve degree 2 polys. Omit	
	Examples 8, 12.	
1.7 Modeling	Examples 3,4 and money problems	35,37,41
	only	
1.9 Coordinate Plane, Circles	Omit graphs, intercepts, and	21-31,35-49,83-104
	symmetry. Omit Ex: 4-8,12	
1.10 Lines	Examples 1-9 only.	9-50
	Students should know the graphs on	Section 2.1: 10.20.25.28.42.50.55
Cranha of functions (amit	the table "Some Functions and Their	5ection 2.1. 19-50,55-58,45-50,55-
Graphing analylators)	Graphs" on p 166 They need not	72. Section 2.2: 2.28, 23, 46
Graphing cacturators)	know the greatest integer function	Section 2.2. 2-28, 55-40
2.3	Omit Solving Graphically, omit	Section 2 3: 7 10 31 34 43 46
2.5	graphing calculators. Examples 1.2.5	Section 2.3. 7-10,31-34,43-40
	and 8 only	
2.6 Transformations	Omit even/odd functions	23 52 63 68
2.0 Indistormations	Omit Sums Differences Products	27 58
2.7 Combining functions	quotients and Applications. Go over	27—38
	examples 3 and 4 ONLV	
3.1 Quadratic functions and	Omit Modeling	5-11
models	Omit Widening	5-44
3.2 Polynomials and Their	Focus on Examples: 4.5.6.8 Omit	5-36
Graphs	Local Max and Min of Polynomials	5-50
Orapiis		
3 3 Dividing Polynomials	Synthetic Division (optional) Omit	1 3-24
5.5 Dividing Polynomials	Remainder and Factor Theorems	1, 5 2 1
3.6 Rational Functions	Examples 1 and 2 ONLY	9-22.
6.1 Angle Measure		1-70.
6.2 Trigonometry of Right		1-44,47-51.
Triangles		,
6.3 Trig Functions of Angles	No Calculators.	1-40,47-60.
6.5 and 6.6 Law of Sines and	6.5: Example 2 only (no	6.5: 19-28
Law of Cosines	approximations)	6.6: 11-28.
	6.6: Examples 2 and 3 only (no	
	approximations).	
10.1 Systems of Linear	Take the time to explain the geometry	21-50,59-64.
equations	of a linear system. Omit Ex 8.	
10.2 Systems in Several	Do not spend much , if any, time on the	3-33
Variables	3D geometrical motivation. Omit	
	Modeling.	
10.6 Determinants and	Examples 1,2,3,6,7 only. Omit	1-28, 39,41-56.
Cramer's rule.	invertibility condition and area of	
	triangle.	