Mth 161 Precalculus Syllabus (Online Education)

INSTRUCTOR INFORMATION

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Textbook: College Algebra. 3/e Corrected Edition July 2013
Stitz and Zeager.
Book available free: http://stitz-zeager.com/

Software: MyOpenMath Online Homework: https://www.myopenmath.com/
Course ID: 56431
Enrollment key: mth161

GRADING/EVALUATION

Three (3) tests	60%
Introductory quiz	2%
MOM Homework	18%
Final Exam	20%

Tests. There will be three tests given during the semester. There will be no make up tests. Any missed test will receive the score of "0". See Final Exam below. Tests are administered in a proctored environment through the MyOpenMath software. You can take them in the testing center or request a proctor if you don't live nearby.

Final Exam. There will be one comprehensive final given during finals week. The score on the final can also be used to replace the lowest test score (including any missed test.)

Letter grades will be assigned based on your final percentage as follows:

90 – 100 = A
80 – 89 = B
70 – 79 = C
60 – 69 = D
0 – 59 = F

HOMEWORK:

Giving your best effort on homework is the single best thing you can do to help your mathematics. As such, the homework will be submitted through the MyOpenMath software and will count for a significant portion of the grade. (18%) The homework is due

the day before the test with the same material. Academic Assistance also has qualified tutors who can work with you on a regular basis.

CALCULATOR:

A scientific calculator is recommended. The testing centers on campus will provide TI-30X IIS calculators for you to use on the test. ONLY the testing center issued calculator will be allowed on the test, no exceptions.

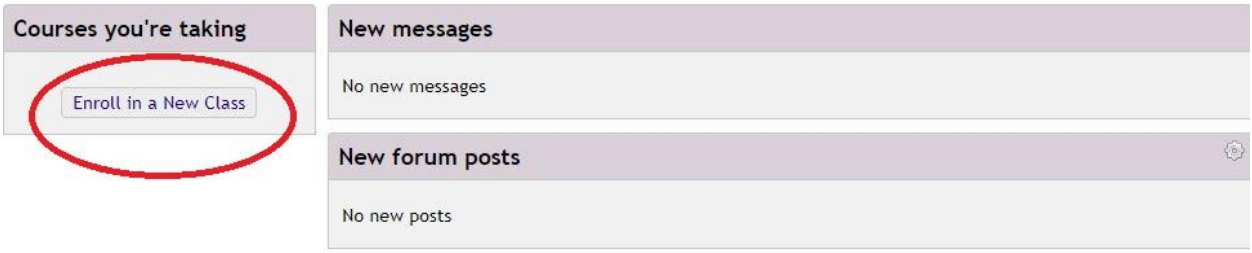
EMAIL POLICY

If you send me an e-mail always use your NRCC issued email address. Be sure that your email client includes your name in the header. You should always include a **descriptive** subject line. Please remember to use complete sentences and follow the rules of grammar. The Purdue OWL website (click) has excellent information about creating a professional email. I communicate through email to your NRCC issued address. I WILL NOT be sending email to any other address you have. I do reply to email within 24 hours during the week. Weekends may be longer.

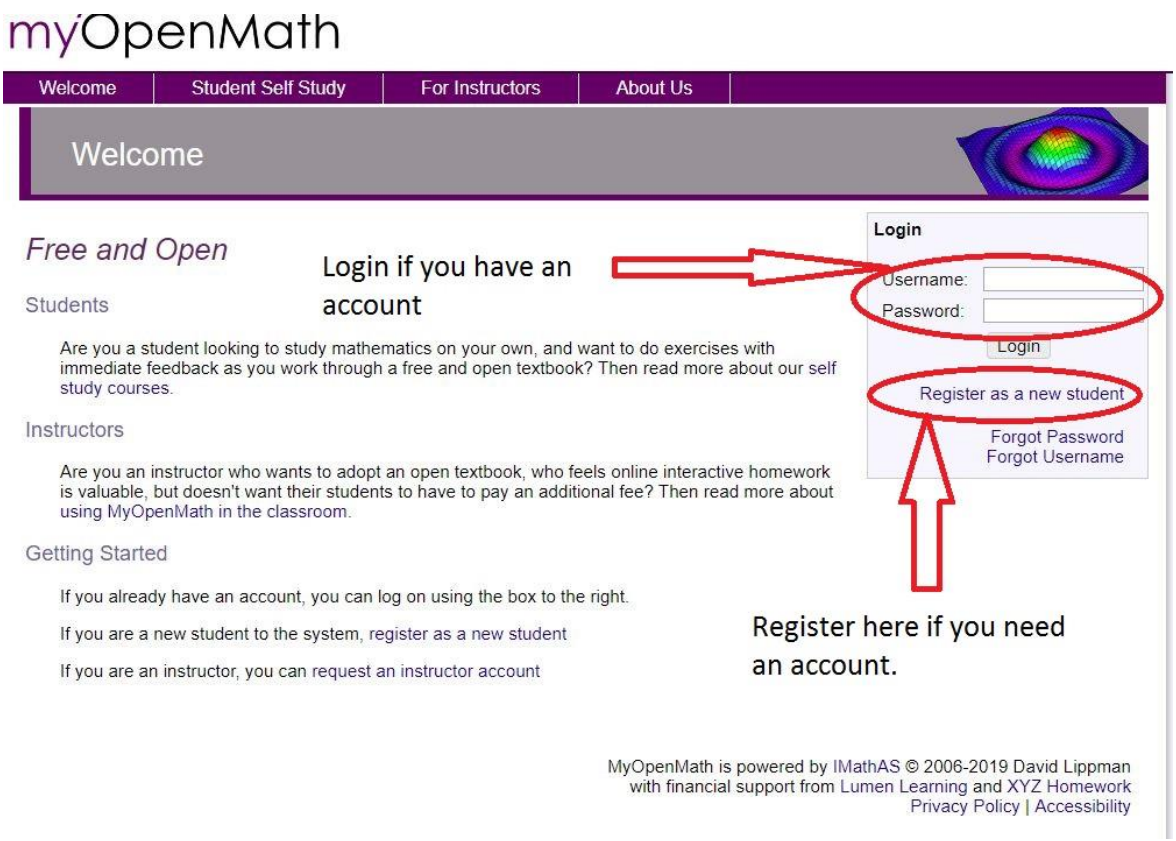
Student Registration:

1. Enter https://www.myopenmath.com/ in your Web Browser.

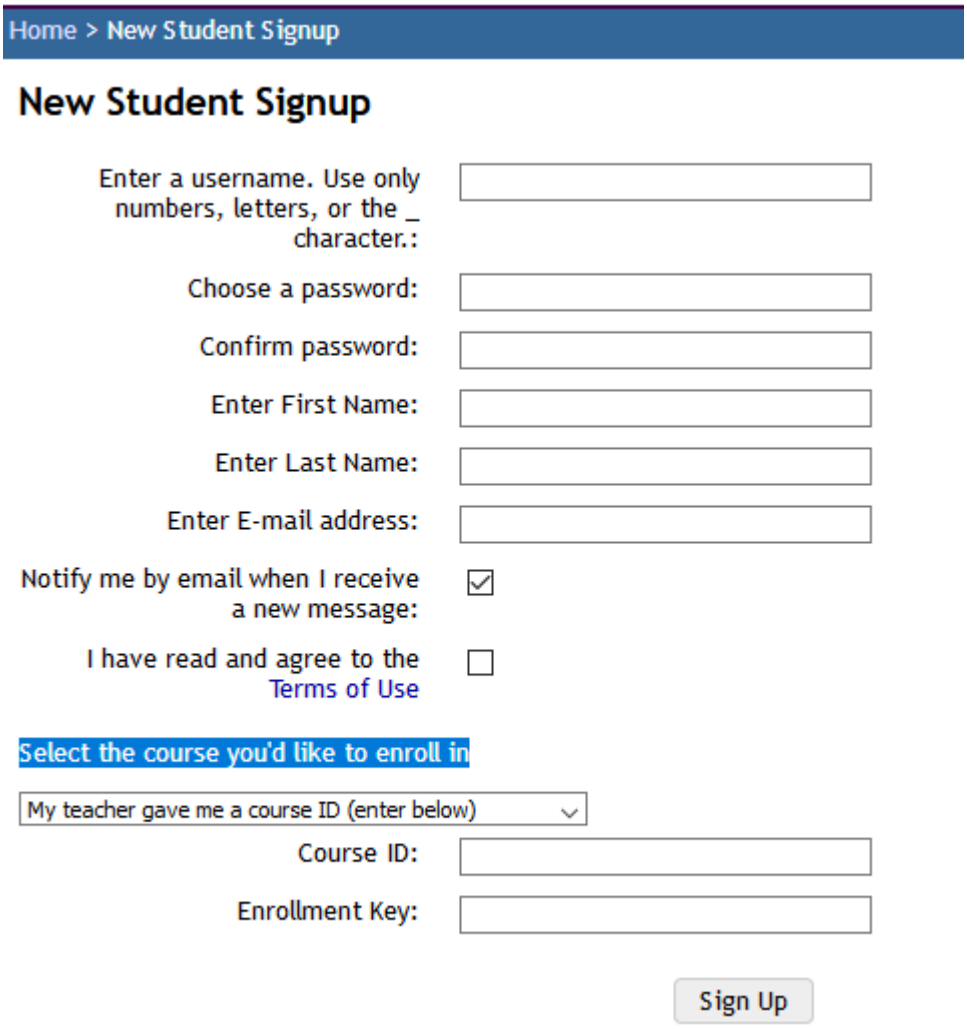
2a. If you already have an account, you can log on and go to “enroll in a new class”.



2b. If you are a new student to the system, register as a new student



3. Enter the requested information at the top of the page and the course information at the bottom. Enter your **Course ID** and **Enrollment Key** exactly as provided by your instructor (See Page 1) and click "**Submit**". *Your course information should appear. If not, contact your instructor to verify the correct Course ID.*



4. Verify that you are in the right class by returning the main page.

Week	Section	Title	
1	**1**	**Relations and Functions**	
	1.1	Sets of Real Numbers and the Cartesian Coordinate Plane	p. 14 #1, 2 - 20 even, 21, 22, 24, 26, 32, 34, 37, 38
	1.2	Relations	p. 29 #2, 3, 7, 9, 11, 15, 21, 22, 27, 28, 31-36, 41 -49 odd
	1.3	Introduction to Functions	p. 49 #1-14, 16 - 30 even, 33, 36, 39, 42, 45, 48
	1.4	Function Notation	p. 63 #2-14 even, 20, 22, 26, 28, 30, 35, 36, 38 - 50 even, 64, 71, 72, 73
2	1.5	Function Arithmetic	p. 84 #2-12 even, 16, 18, 22-28, 46, 47, 51, 53
	1.6	Graphs of Functions	p. 107 #1 - 6, 13 - 15, 17, 22, 24, 26, 29, 36, 58 - 73, 78-90, 96
	1.7	Transformations	p. 140 #12, 3, 4, 5, 7, 9, 10, 11, 15, 19-23, 25, 29, 30, 31, 33, 35, 36, 38, 39, 41, 42, 44, 54-61
	2	**Linear and Quadratic Functions**	
	2.1	Linear Functions	p. 163 #1-19 odd, 21 - 26, 28, 30, 32, 34, 39, 42, 44, 56, 60-70 even
3	2.2	Absolute Value Functions	p. 183 # 2 - 12 even, 16, 17, 22, 23, 26, 28
	2.3	Quadratic Functions	p. 200 #1 - 8, 10, 12, 16, 17, 22, 23, 31
	2.4	Inequalities with Absolute Value and Quadratic Functions	p. 220 # 1 - 7 odd, 17 - 25 odd
4		Test 1	Chapters 1 and 2
	3	**Polynomial Functions**	
	3.1	Graphs of Polynomials	p. 235 #1 - 25 odd
	3.2	The Factor Theorem and the Remainder Theorem	p. 257 #1 - 27 odd, 31, 33, 35, 38, 41, 42, 43
5	3.3	Real Zeros of Polynomials	p. 269 #1, 6, 7, 9, 11, 13, 15, 19, 21, 23, 31
	3.4	Complex Zeros and the Fundamental Theorem of Algebra	p. 287 #1 - 20, 27 - 30, 47 - 50
6	**4**	**Rational Functions**	
	4.1	Introduction to Rational Functions	p. 314 #1 - 10, 19, 20
	4.2	Graphs of Rational Functions	p. 333 #1 - 6, 9
	4.3	Rational Inequalities and Applications	p. 353 # 1 -5, 7, 8, 9
7		Test 2	Chapters 3 and 4

	5	**Further Topics in Functions**	
	5.1	Function Composition	p. 369 #1 - 23 odd, 31, 33, 56 - 61
	5.2	Inverse Functions	p. 394 #1 - 17 odd
8	**6**	**Exponential and Logarithmic Functions**	
	6.1	Introduction to Exponential and Logaritmic Functions	p. 429 #1-35 odd, 43, 45, 58, 59, 60, 64, 75, 77
	6.2	Properties of Logarithms	p.445 #1-6, 10-14, 16-22, 35, 37, 39
	6.3	Exponential Equations and Inequalities	p. 456 #1-23 odd
9	6.4	Logarithmic Equations and Inequalities	p. 466 #1-19 odd
	6.5	Application of Exponential and Logarithmic Functions	p. 482 #1, 2, 5, 6, 8-11, 15, 17, 21-25, 27, 28, 29
	8	**Systems of Equations and Matrices**	
	8.1	Systems of Linear Equations: Gaussian Elimination	p. 562 # 1 - 15 odd, 21
10	8.6	Partial Fraction Decomposition	p. 635 #1 - 6, 7, 8, 9, 11
		Test 3	Chapters 5, 6 and 8
		Final	