MTH 161 Precalculus Syllabus Spring 2021 (7 Week)

INSTRUCTOR INFORMATION

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

Software: MyOpenMath Online Homework: <u>https://www.myopenmath.com/</u> Course ID: 102401 Enrollment key: mth161

GRADING/EVALUATION

Description	Percentage
Tests (3)	60%
Introductory Quiz	2%
Homework	18%
Final Exam	20%
Total:	100%

Last Date to Complete Test		
Test 1	February 15	
Test 2	March 2	
Test 3	March 17	
Final	March 19	

Introductory Quiz: You must take the introductory quiz in Canvas by the end of the first week or you will be withdrawn for non-participation in the course.

Tests.

- 1. There will be three (3) tests administered through the MyOpenMath homework software.
- 2. You may take the tests from home.
- 3. The password for each of those is simply the word "password", without the quotes.
- 4. You will have 90 minutes to complete the test. (There are 15 extra minutes so that you can submit a scan of your work).
- 5. You may use a calculator but you **MAY NOT** use any of the symbolic abilities your calculator may have. This includes but is not limited to graphing and solving of equations of any type.
- 6. You MUST submit a photograph or scan of all your work that you wrote while you were taking the test through <u>MyOpenMath</u> before you submit your test. Work should be neat and legible, and problems should be numbered so that I can easily see which work goes with which problem. The work should be complete as if you were solving the question in an in-class environment. It is not "notes" or "scratch work". The app <u>Office Lens</u> from Microsoft seems to do a good job with creating a single small file.

- 7. There will be no make-up tests. Any missed test will receive the score of "0". See Final Exam below.
- 8. Tests may be taken early.
- 9. The average on all tests will count as 60% of the course grade

Final Exam. There will be one comprehensive final given the last day of class. The score on the final will replace the lowest test score (including any missed test) if that will improve your final average. Testing procedures are the same for final as for the tests except you have 120 minutes to complete the final. *The final will count as at least 20% of the course grade*.

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. <u>Academic Assistance</u> also has qualified tutors who can work with you on a regular basis.

CALCULATOR:

A scientific calculator is recommended. If you own a calculator do not buy a new one. If you do not own a calculator don't spend a lot of money on one. I recommend the TI-30X IIS calculator.

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 that includes the course number. Please remember to use complete sentences and follow the rules of grammar. The <u>Purdue OWL website (click)</u> has excellent information about creating a professional email. I communicate through email to your NRCC issued address. I WILL NOT be replying to email that does not conform to these requirements. I do reply to email within 24 hours during the week. Weekends may be longer.

STUDENT REGISTRATION:

myOpenMath

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

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

Courses you're taking	New messages	
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2b. If you are a new student to the system, register as a new student

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Free and Open	Login if you have an account	Login Demane Passwort
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Are you an instructor who v is valuable, but doesn't war using MyOperMath in the c	vants to adopt an open textbook, who herts o in their students to have to pay an additional lassnoom	nine interactive homework lee?Then med more about
Setting Started		
If you already have an accr	unit, you can log on using the box to the righ	
If you ane a new student to	the system, register as a new student	Register here if you need
If you are an instructor, you	can request an instructor account.	an account.
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3. Enter the course information. 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.*

Enroll in a Course

Select the course you'd like to enroll in

My teacher gave me a course ID (enter belo	w) 🔹
Course ID:	129
Enrollment Key:	
	Sign Up

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

New River Community College

Week	Section	Title	Text Homework
	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	1.4	Function Notation	p. 63 #2-14 even, 20, 22, 26, 28, 30, 35, 36, 38 - 50 even, 64, 71, 72, 73
	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
2	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
		Test 1	Chapters 1 and 2
	3	Polynomial Functions	
	3.1	Graphs of Polynomials	p. 235 #1 - 25 odd
3	3.2	The Factor Theorem and the Remainder Theorem	p. 257 #1 - 27 odd, 31, 33, 35, 38, 41, 42, 43
	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
	4	Rational Functions	
4	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
5		Test 2	Chapters 3 and 4
	5	Further Topics in Functions	
	5.1	Function Composition	p. 369 #1 - 23 0dd, 31, 33, 56 - 61
	5.2	Inverse Functions	p. 394 #1 - 17 odd
	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	6.3	Exponential Equations and Inequalities	p. 456 #1-23 odd
	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	
7	8.1	Systems of Linear Equations: Gaussian Elimination	p. 562 # 1 - 15 odd, 21
	8.6	Partial Fraction Decomposition	p. 635 #1 - 6, 7, 8, 9, 11
		Test 3	Chapters 5, 6 and 8
		Final	