MTH 162 Precalculus II Syllabus
Summer 2025 Online

INSTRUCTOR INFORMATION

Dr. Pablo Chalmeta
pchalmeta@nr.edu
www.nr.edu/chalmeta
Phone: 540-674-3600, ext. 4115 (or 4266)
Office: 48 Godbey Hall (or Mall 115A)

Office hours: https://www.nr.edu/chalmeta/schedule.html
Office hours zoom: https://vccs.zoom.us/j/84388417918

Textbooks: College Algebra. 3/e Corrected Edition July 2013 Stitz and Zeager.
Book available free: http://stitz-zeager.com/
Trigonometry by Pablo Chalmeta
(available for free here: http://www.nr.edu/chalmeta/trigonometry/Trigonometry_book.pdf)

Software: MyOpenMath Online Homework: https://www.myopenmath.com/
Course ID: 271648
Enrollment key: mth162

GRADING/EVALUATION

Description	Percentage
Tests (3)	45%
Introductory Assignments	2%
Homework	18%
Final Exam	35%
Total:	**100%**

Last Date to Complete Test	
Test 1	June 5
Test 2	July 1
Test 3	July 29
Final	July 31

Introductory Assignments: You must complete all introductory assignments in MyOpenMath and take the introductory quiz in Canvas by the end of the first week or you will be withdrawn for non-participation in the course.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 but you MAY NOT use the internet, the textbook or any other such materials. You may only use the formula sheet found in MyOpenMath.
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 MyOpenMath 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".

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 45% of the course grade*

Final Exam. There will be one comprehensive final due by the last day of class. **The final exam must be taken in a proctored environment such as our testing centers.** The score on the final will replace the lowest test score (including any missed test) if that will improve your final average. *The final will count as at least 35% 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. Academic Assistance 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 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 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.

TESTING INFORMATION

The test problems are similar to those used as examples in lectures, found in MyOpenMath, practiced in classwork, and given in the test topics documents. The number and difficulty of problems is similar to that of tests given to face-to-face classes.

The best way to prepare for tests in this course is to

1. Watch the videos that are in MyOpenMath, pausing to take notes and work examples.
2. Do the homework assignments in MyOpenMath using the resources there for help as needed.
3. Use Similar Question with the homework exercises until notes or outside help are no longer needed to solve the problems successfully.

4. Plan to spend an average of 1 – 1.5 hours a day in a semester-long class, 2.5 – 3.5 hours a day in a 7-week class, and 1.5 – 2.5 hours a day in a 10-week class including weekends.

The tests are taken on your own.

- Label your paper with the Test number, your name, and the date.
- At the top of your paper, write the pledge, "I promise that I took this test alone and that this work is my own," and sign it.
- Number the problems.
- Write neatly.
- Clearly identify your final answer.
- After completing a test, write the pledge and sign it again at the end of your work.
- Create a PDF copy of your hand-written work with each page of work being a page in the PDF.
- Submit the PDF of your completed Test in MyOpenMath BEFORE you submit the test.

The final exam must be taken in an NRCC testing center or with an approved proctor.

- Arrive at least 3 hours before the testing center closes and bring a photo ID with your name & a recent photo on it.
- Bring your own writing utensil and eraser. The testing center will provide a TI-30XIIs calculator. You may not use a cell phone calculator or a computer calculator.
- You may not bring any notes or other study aids.
- You may not visit other websites while taking the exam.
- The testing center staff will provide paper for showing your work. They will collect your test work when you finish the exam. Be sure to write your name on each sheet of paper you use. Be sure to write neatly and number each problem.

All problems on tests and final exam are reviewed by me. I will compare your work to your answer. As I review your hand-written work, I make the following adjustments to your exam score.

- Incorrect answers with no work, major errors in the work, work missing steps that cannot be reasonably done in my head, or work using methods inconsistent with the scope of this course receive little or no credit.
- Incorrect answers with complete work showing minor error(s) receive partial credit.
- Correct answers with full support of work receive full credit.
- Correct answers with partial support of work may only receive partial credit.
- Correct answers with no work will receive partial or no credit.

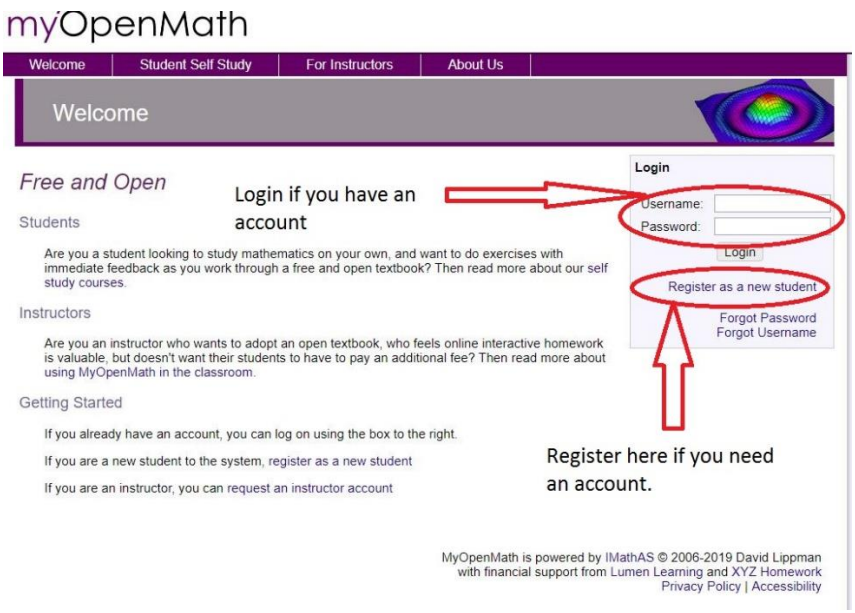
Note: Some problems do not have or need work to be shown. These include multiple-choice and fill-in-the-blank questions.

Student Registration:

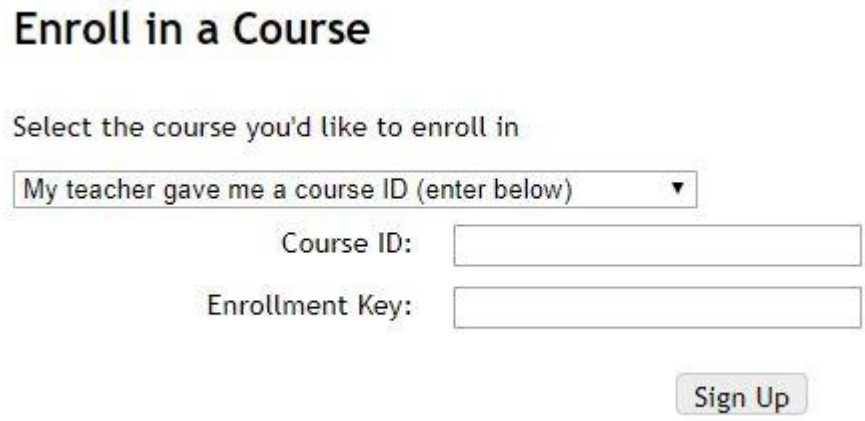
1. Enter https://www.myopenmath.com/ in your Web Browser.

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 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.*



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

College Algebra V. 3 Stitz & Zeager			
Week	7	**Hooked on Conics**	
1	7.1	Introduction to Conics	None
	7.2	Circles	p. 502 #1, 3, 7, 11, 13, 15
2	7.3	Parabolas	p. 512 # 1-17 odd
	7.4	Ellipses	p. 525 #1-19 odd
3	7.5	Hyperbolas	p. 541 #1 - 4, 9,10, 13-23 odd
		Test 1 Chapter 7 Conic Sections	
Trigonmetry Chalmeta			
	1	**Trigonometric Functions**	
3	1.1	Angles and Their Measure	p. 9 #1 - 15 odd, 21, 24, 27, 30, 33, 37, 41, 43, 45, 51, 53
4	1.2	Right Triangle Trigonometry	p. 20 # 1-11 odd, 17-25 odd, 26
	1.3	Trigonometric Functions of Any Angle	p. 30 # 1 - 23 odd, 25, 30, 35, 41, 43, 45
	1.4	The Unit Circle	p. 37 #1 - 8, 9, 11, 14, 16, 19
5	1.5	Applications and Models	p. 43 #1, 3, 5, 7, 13-21 odd, 22
	2	**Graphs and Inverse Functions**	
	2.1	Graphs of Sine and Cosine	p. 56 #1-9 odd, 13-19 odd, 22
	2.2	Graphs of tan(x), cot(x), csc(x) and sec(x)	p. 64 # 1, 2, 3
6	2.3	Inverse Trigonometric Functions	p. 73 #1-19, 29, 30
	2.4	Solving Trigonometric Equations	p.80 #1-15 odd, 19-25 odd, 29
7		**Test 2 Trigonometry Chapters 1 and 2**	
	3	**Trigonometric Identities**	
	3.1	Fundamental Identities	p. 87 #1-17 odd
	3.2	Proving Identities	p. 92 #1-13 odd, 21, 23, 29, 31
8	3.3	Sum and Difference Formulas	p. 100 #1, 3, 6, 8, 9, 13, 17, 19, 23, 27, 31-39 odd
	3.4	Multiple-Angle Formulas	p. 107 #1, 3, 5, 11, 13, 17, 19, 23, 25, 31
	Chapter 4	**General Triangles**	
	4.1	Law of Sines	
9	4.2	Law of Cosines	
	5	**Additional Topics**	
	5.1	Polar Coordinates	p. 137 # 1-31 odd
10	5.2	Vectors	
		Test 3 Trigonometry Chapters 3, 4, and 5	
		Final Exam	