MTH 267 Differential Equations Syllabus
Spring 2025

INSTRUCTOR INFORMATION

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

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

INSTRUCTIONAL MATERIALS

Textbook: W. Kohler and L. Johnson, Elementary Differential Equations with Boundary Value Problems, 2nd Edition
Calculator: Almost any
Software: MyOpenMath Online Homework: https://www.myopenmath.com/
Octave (any version) or other software to carry out numerical calculations.
Course ID: 251809
Enrollment key: mth267

GRADING/EVALUATION

A student's final grade is determined through a variety of assessments

Grading Criteria	
Introductory Assignments	2%
MyOpenMath Homework	13%
MyOpenMath Quizzes	10%
Three (3) Tests	55%
Final Exam (Proctored)	20%

Last date to complete test:	
Test 1	Feb 24
Test 2	April 2
Test 3	May 5
Final Exam	May 9

Introductory Quiz: You must take the introductory quiz in Canvas by the end of the first week or you will be withdrawn for non-participation in the course.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. **The tests must be taken in a proctored environment such as our testing centers**
3. You will have 90 minutes to complete the test.
4. You may bring one handwritten (Not typed, not printed) 3x5 index card to the test. Your score will decrease proportional to how much larger than 3x5 your index card is.
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 all your work that you wrote while you were taking the 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".
8. Tests may be taken early.
9. *The average on all tests will count as 55% 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 testing procedures are the same as for the tests. The final exam grade will replace the lowest test grade if it improves your average. *The final will count as 20% of the course grade*.

HOMEWORK

Giving your best effort on homework is the single best thing you can do to help you learn mathematics. As such, the homework will be submitted through the MyOpenMath software and will count for a significant portion of the grade. (13%) The homework is due weekly. There is no penalty for working on the homework late with a late pass. There are additional homework problems in the textbook that are not collected for a grade but you are still responsible for knowing how to complete them. Some are duplicated in the software but many are not.

QUIZZES

There are quizzes in the MyOpenMath software and will count for 10% of the grade. The quiz questions are very similar to the homework questions but you will not have only 2 attempts to complete them.

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 and the final are taken in an NRCC testing center or with an approved proctor.

- Arrive at least 2 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. You may not use a cell phone calculator or a computer calculator.
- You may bring one 3x5 index card to the test. Your score will decrease proportional to how much larger than 3x5 your index card is.
- The tests are administered through the MyOpenMath homework software. .
- The testing center staff or proctor will provide paper for your work. They will collect your test work when you finish the test. 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.

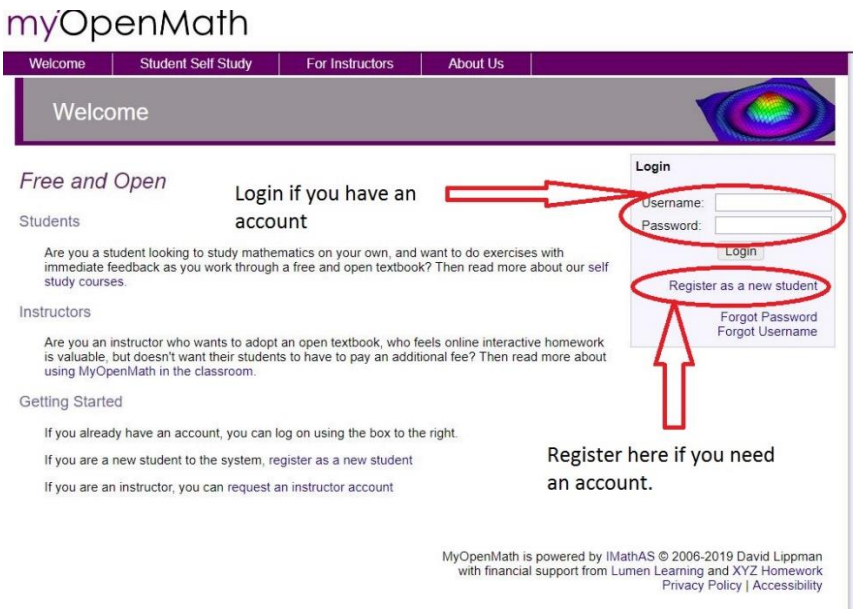
Note: Some problems do not have or need work to be shown. These include multiple-choice and fill-in-the-blank questions.

MYOPENMATH STUDENT REGISTRATION:

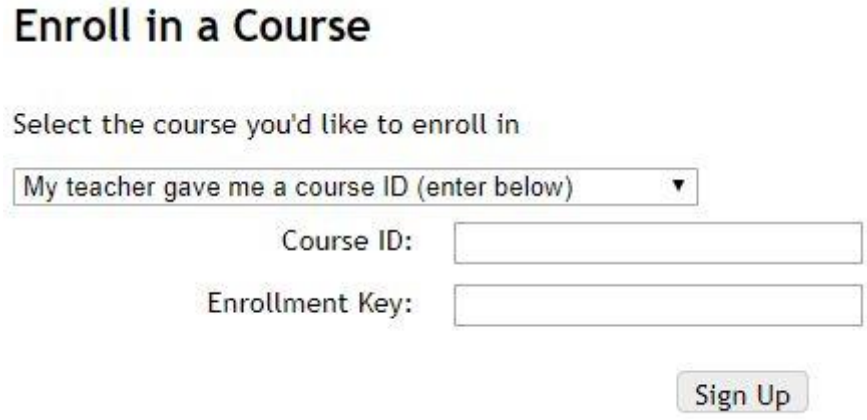
1. Enter https://www.myopenmath.com/ in your Web Browser.

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.

Chapter	Section	Homework Problems
Chapter 1	1.2	4, 9, 15, 16, 17, 19, 23
(2 lessons)	1.3	1, 2, 4, 14-19

Chapter 2	2.01	1-10, 13, 14, 15
(10 lessons)	2.02	1, 4, 6, 12, 15, 18, 19, 21, 26, 28, 29, 32, 36, 40
	2.03	1, 3, 4, 11, 13, 14
	2.04	5, 7, 8, 13, 15
	2.05	5 - 8, 11
	2.06	2, 5, 9, 15, 27, 30
	2.09	1, 2, 4, 11, 12
	2.10	1, 2, 3, 12
Test 1	Chapter 1 and 2	

Chapter 3	3.01	3, 11, 13
(13 lessons)	3.02	1, 2, 3, 4, 10, 15, 16, 19
	3.03	1, 2, 3, 7, 13, 18
	3.04	1, 2, 3, 6, 9, 14, 15
	3.05	1, 3, 5, 6, 12, 22, 26
	3.06	2, 3, 8, 12
	3.07	1, 6, 10
	3.08	1, 3, 4, 5, 14, 16, 17, 19, 41
	3.09	1, 2, 3, 9, 16
	3.10	1, 4, 7, 13
	3.11	3, 7, 18, 20
	3.12	1, 2, 3, 5, 6, 8, 17
Test 2	Chapter 3	

Chapter 5	5.01	1 - 4, 7, 8, 11, 12, 17, 19, 21, 23, 35, 37, 39
(14 lessons)	5.02	1, 3, 5, 7, 9, 13, 15, 17, 25, 26, 27, 29, 39, 42, 45
	5.03	1, 3, 5, 9, 10, 11, 13, 19, 21, 23
	5.04	1, 5, 8, 10, 11, 13, 14, 15, 24, 25, 26
	5.06	3, 4, 5, 7
	5.07	1 (a),(b), 13, 15, 17
Test 3	Chapter 5	