

MATH 314 Introduction to Applied Mathematics

Section 001, Spring 2021

Instructor: Gary dela Pena, Ph.D.

Contact Information:

- **Email:** gdelape2@gmu.edu (Subject line must contain: MATH 314)
- **Office Hours:** 3:00P-4:00P TR on Blackboard Collaborate Ultra (login at these times if you want to ask questions)
- **Discussion Board:** You can ask questions using the discussion board in Blackboard.

Prerequisites: Grade of C or better in MATH 214 or 216. Prerequisite(s) enforced by registration system.

Course Objectives: To understand and be able to make use of the concepts of Fourier analysis, series solutions of differential equations, Bessel and Legendre equations, Sturm–Liouville problems, and partial differential equations..

Textbook: Kreyszig, Erwin; *Advanced Engineering Mathematics*, 10th Edition, Wiley; 2011.

Grading : Your grade will be determined out of a possible 325 points:

Tests (2)	160 points (80 points for each test)
Comprehensive Final exam (1)	125 points
Homework (4)	40 points (10 points per Homework set)
<u>Total</u>	<u>325 points</u>

Grades will be assigned according to the following scale:

A	A–	B+	B	B–	C+	C	C–	D	F
100–93	92–90	89–87	86–83	82–80	79–77	76–73	72–70	69–60	59–0

Tests: (2) midterm tests and a final Test. The coverage for each test is specified in the course schedule.

Although the course is offered online asynchronously, all tests are given on specific days, during a designated time period. If you are unable to take the exam at that time, you may request an alternate exam day and time, to be approved by the instructor. All requests for alternate days/times must be made two weeks before the scheduled test date.

- Midterm Test 1: March 4, 7:20P - 8:35P
- Midterm Test 2: April 8, 7:20P-8:35P
- Final Test: May 4, 7:30P-10:15P

These are the only dates and times that you are required to be in attendance. Please read the “Course Procedures and Guidelines” on how the tests will be administered and submitted. The coverage for each test is indicated in the course schedule. A test review will be posted one week before the scheduled date in blackboard. I will inform you when it is posted.

Homework Sets: There will be a total of nine (5) homework sets. Please read the “Course Procedures and Guidelines” on how the homework sets are administered and submitted. The posting and due dates of each homework set is indicated in the course schedule. **THERE IS NO MAKE-UP FOR HOMEWORK SETS.** The lowest homework grade will be dropped. As an incentive, if you do all 5 homework sets, whatever extra points you earn will be added to your total score.

Homework: The homework problems are listed in the suggested problems column in the course schedule. While homework will neither be collected nor graded it is highly recommended that you complete all problems.

Makeup exams will only be given to students with an acceptable excuse. The only acceptable excuses are **religious holy day, family emergency, school sponsored event, job interviews, or sickness**. All absences require documentation. **All other absences will be given a zero for that test. No exceptions!**

Important Dates

February 1: is the last day you can add a class. If your name is not on my class roll then you cannot take this class.

February 12 Last day to drop with no tuition penalty.

February 16 Final Drop Deadline: Last day to drop with 50% tuition penalty.

February 17–March 1 Unrestricted Withdrawal Period.

March 2–April 1: Selective Withdrawal Period. If you stop attending classes and plan to withdraw from the course, it is your responsibility to withdraw from the course. You will not be able to withdraw yourself from the course after the above dates.

Students with Disabilities: If you have a documented learning disability or other condition that may affect academic performance you should:

1. Make sure this documentation is on file with Office for Disability Services (SUB I, Rm. 4205; 993-2474;<http://ods.gmu.edu>) to determine the accommodations you need; and
2. Inform me so we can discuss your accommodation needs.

Policy on Academic Dishonesty GMU is an Honor Code university; please see the Office for Academic Integrity for a full description of the code and the honor committee process. The principle of academic integrity is taken very seriously and violations are treated gravely. It is the responsibility of each student to ensure that other persons are not permitted access to answers to exams or quizzes or assignments which are required to be the sole work of each student. **IF A STUDENT IS SUSPECTED OF ACADEMIC DISHONESTY ON ANY EXAM OR QUIZ OR ASSIGNMENT REQUIRED TO BE THE SOLE WORK OF THE STUDENT, THE FOLLOWING PROCESS WILL APPLY:**

At a minimum, a ZERO (0) on that exam or quiz or assignment and incident reported to the Honor committee.

See *academicintegrity.gmu.edu* for a copy of the Honor Code.

Obtaining Help: I will inform you at a later date if the Math Tutoring Center will be open during the semester.