

Villanova University Spring 2024
MATH 2500 – Calculus III – Sections 003 & 101
SYLLABUS

Section 003 - MW: 4:45-6:00 PM, Mendel Hall 260, **T:** 9:00-9:50 AM, John Barry Hall 202B
Section 101 - MW: 6:15-7:30 PM, Mendel Hall 260, **T:** 10:00-10:50 AM, John Barry Hall 202B

Instructor: Dr. Melissa M Fuentes

Office: St. Augustine Center 423

Email: melissa.fuentes@villanova.edu (will respond to emails 8 AM-1 PM, Monday to Friday)

Office hours: M 1-2 PM in St Augustine Center 423, Th by appt via Zoom between 10:30 AM-1:30 PM

Course Website: <https://www.MelissaMFuentes.com/mat2500>

Course Description: This course is an introduction to calculus and analytic geometry including limits, continuity of functions, definition of differentiation, derivation of formulas, applications, anti-differentiation and the fundamental theorem of calculus. To complement classroom instruction, students will be required to problem solve using the computer algebra system, Maple.

Prerequisites: To be successful in this course, a student should have a strong background in algebra and some familiarity with trigonometry. Ordinarily this means high school trigonometry and advanced algebra.

Course Objectives: This course is designed to introduce science and engineering students to the fundamentals of multivariable calculus. Topics covered include:

• vectors & geometry of space • vector valued functions • partial derivatives • multiple integrals • vector calculus.

Course Textbook: *Calculus: Early Transcendentals, 9th ed.* by J. Stewart, D. Clegg, and S. Watson. An e-textbook is included with WebAssign access, which is required for the course (see below).

REQUIRED MATERIALS:

- (1) **Blackboard (BB):** <https://elearning.villanova.edu/> All class materials will be posted to Blackboard under the COURSE CONTENT tab on the left. **Students are expected to check BlackBoard for weekly reminders, due dates, course notes, and worksheets, all of which will be posted under the current week's module.**
- (2) **WebAssign:** Weekly homework assignments are to be completed via WebAssign, an online supplement to our textbook. **Purchase options (single or multi-semester) and WebAssign registration instructions can be found on the WEEK 1 Module in BlackBoard under COURSE CONTENT.**

REGISTER INTO OUR WEBASSIGN COURSE USING THIS COURSE KEY: *See code in your course section's syllabus emailed to you on 1/10/23.*

- (3) **Maple (2023 version):** We will use Maple, a mathematical computing program, in class as well as for some assignments. **Installation instructions can be found on the WEEK 1 Module in BB under COURSE CONTENT.**

SUGGESTED MATERIALS:

Scientific Calculator: You may use one during class, exams, and quizzes. **GRAPHING CALCULATORS ARE PROHIBITED DURING QUIZZES AND EXAMS.** The most advanced calculator that can be used during exams should align with the TI-30X family ([VU Bookstore scientific calculator](#)).

HOMEWORK:

- There will be weekly WebAssign assignments (2-3 sets total), **due Mondays, 11:59 PM.**
- **There will be 3 Maple Assignments in total.** They are to be completed with your classwork groups in PDF format via BlackBoard.

EXTENSIONS, MAKE-UPS, & EXTRA CREDIT POLICY:

- Extensions for assignments will **always** be granted (WebAssign or Maple). However, **7% will be deducted for each additional day an assignment is late.**
- **Missing quizzes/exams:** The instructor must be notified **at least 24 hours in advance VIA EMAIL** if you are going to miss a quiz/exam, and a valid excuse, preferably with written documentation (e.g., doctor’s note) must be provided.
Whether or not a make-up will be granted is at the instructor’s discretion.
Travel plans do not constitute an acceptable reason to reschedule an exam or quiz. Please plan accordingly during finals and semester breaks.
- Extra credit assignments **WILL NOT** be granted under any circumstances.

CLASSWORK:

A worksheet will be posted every week on Blackboard and the course website. Most Thursdays will be dedicated to working on worksheet problems in your classwork groups. Each of you will be a member of a group of 4-5 students and will be expected to post a solution to a worksheet problem on the board. Classwork will be graded based on attendance and participation.

QUIZZES:

There will be a quiz nearly every Tuesday. Quizzes will be completed with your classwork group members. Each quiz will cover the previous week’s material. **The lowest quiz grade is dropped.**

EXAMS:

There will be one in-class midterm and a final exam. The tentative dates are listed below.

Midterm: Wednesday, February 28th

Final (cumulative): TBA

GRADING POLICY:

Grades will be computed according to the following point system:

Homework: 150 points, **Quizzes:** 200 points, **Maple Assignments:** 120 points

Classwork: 80 points, **Midterm:** 200 points, **Final Exam:** 250 points

1000 points in total possible

Letter grades:

Points	920-1000	880-919	840-879	800-839	770-799	740-769	700-739	670-699	640-669	600-639	570-599	0-569
Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F

Other Course Policies

- Cell phones should be turned off/muted during class. **No texting.**
- Unless time has been allocated for in-class computer use, the use of a PC or MAC is not permitted. Tablet usage is allowed, but **tablets must lay flat on your desk while in use.**
- If you are caught working on an assignment from another course during class, you will be asked to leave the classroom.
- Recording class lectures, either audio or video, is strictly prohibited **without the express written consent of the professor.** Violation of this policy will result in a failing grade for the course. **Lecture videos will not be posted.**
- **ATTENDANCE:** Students are expected to attend every class, but attendance will only be taken on Thursdays. **If you miss a class, you are solely responsible for catching up on missed material.**

Please **do not** email Dr. Fuentes if you miss MW lecture. However, you must notify her via email if you are going to miss a Tuesday discussion class. Please **do not** email to ask what material you missed. Instead, check the course website and the current week's module on Blackboard. The university attendance policy on attendance addresses what constitutes an excused absence:

<https://www1.villanova.edu/villanova/provost/resources/student/policies/attendance.html>

- **Athletes:** Students who participate in athletics are excused from class **ONLY FOR GAMES**. Athletes should provide me with a list of game dates along with a letter from their coaches by the end of the second week of the semester. It is the responsibility of the athlete to make sure that all outstanding work due is turned in BEFORE the class is missed.
- **Changes to the syllabus:** Any changes to the syllabus will be provided in writing and posted to Blackboard.
- **Office of Disabilities (ODS) and Learning Support Services (LSS):** It is the policy of Villanova to make reasonable academic accommodations for qualified individuals with disabilities. All students who need accommodations should go to Clockwork for Students via myNOVA to complete the Online Intake or to send accommodation letters to professors. Go to the LSS website <http://learningsupportservices.villanova.edu> or the ODS website <https://www1.villanova.edu/university/student-life/ods.html> for registration guidelines and instructions. If you have any questions please contact LSS at 610-519-5176 or learning.support.services@villanova.edu, or ODS at 610-519-3209 or ods@villanova.edu.
- **Academic Integrity:** All students are expected to uphold Villanova's Academic Integrity Policy and Code. Any incident of academic dishonesty will be reported to the Dean of the College of Liberal Arts and Sciences for disciplinary action. You may view the [University's Academic Integrity Policy and Code](#) for a detailed description.
- **Personal Days:** In addition to the attendance policy stated above, students are entitled to one excused absence for any reason that may contribute to their personal wellness. Students must advise the instructor by email before class of their intent to utilize a Personal Day as the reason for their absence. A Personal Day will not be approved retroactively. Students may, but are not required, to provide additional information regarding their absence. **Additionally, a Personal Day may not:**
 1. be used immediately preceding or following a University holiday or break period;
 2. be used on days when exams, presentations or other major assignments are scheduled.
- **Absences for Religious Holidays:** Villanova University makes every reasonable effort to allow members of the community to observe their religious holidays, consistent with the University's obligations, responsibilities, and policies. Students who expect to miss a class or assignment due to the observance of a religious holiday should discuss the matter with their professors as soon as possible, normally at least two weeks in advance. Absence from classes or examinations for religious reasons does not relieve students from responsibility for any part of the course work required during the absence.
https://www1.villanova.edu/villanova/provost/resources/student/policies/religious_holidays.html

Important Dates

Monday, January 22 – Last day to add/drop courses or for requesting Satisfactory/Unsatisfactory.

Monday, March 4 to Sunday, March 10 – Semester Recess (no classes).

Wednesday, March 13 – Mid-semester grades due.

Wednesday, March 27 – Easter Recess begins after last class.

Tuesday, April 2 – Classes Resume.

Wednesday, April 3 – Last day for authorized course withdrawal without academic penalty (WX).

Tuesday, April 30 – Deemed a Friday and will follow a Friday Schedule for U/D Day Classes Only.

Wednesday, May 1 – Deemed a Monday and will follow a Monday Schedule for U/D Day Classes Only.

Thursday, May 2 – Spring classes end.

Friday, May 3 – Reading day.

Saturday, May 4 – Friday, May 10 (excluding Sunday, May 5) – Final exams.

Student-Professor Syllabus Agreement

Print Name: _____

Phone: _____

Email: _____

Class: **MAT 2500 – Calculus III** Section: _____

Advisor: _____

Athletic Team or Other On-Campus Commitment (if applicable):

I have read and understood the terms, conditions, and policies of the class as stated in the course syllabus. I understand that if any substantive changes to the course are made, I will be notified in writing.

Signature

Date

I understand that I will contact Dr. Melissa M Fuentes by email, **24 HRS PRIOR** to missing an exam or a quiz; otherwise I will not be allowed a make-up exam/quiz.

I also understand that the only valid reason for possibly having a final exam rescheduled is if I am scheduled for at least three final exams on the date of the original final exam. *Travel plans do not constitute an acceptable reason to reschedule an exam or quiz.*

Signature

Date