

Wheeling Jesuit University
Department of Engineering
MAT 191-01 Calculus I, 4 credits
Spring 2019

Instructor: Neetika Sharma

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Office Hours: MWF 12-1pm or by appointment.

Catalog Course Description:

A theoretical introduction to differential calculus including limits, continuity, the basic rules for derivatives and applications including optimization problems. A brief introduction to integration leading to the Fundamental Theorem of Calculus completes this course.

Prerequisite: MAT 151 or equivalent.

Textbook(s): Stewart, CALCULUS, Single Variable (7th Ed.) ISBN-10: **0538497831** | ISBN-13: **978-0538497831** **OR**, if you are planning on going through Calculus III, the full edition: ISBN-13: **978-0538497817**

Student Learning Objectives:

A successful student in this course will be able to...

1. State important definitions and theorems. (Understanding)
2. Use appropriate techniques to differentiate and integrate functions. (Applying)
3. Use calculus techniques to determine important properties of functions. (Applying)
4. Use calculus techniques to accurately sketch graphs of functions. (Applying)
5. Determine the appropriate techniques to solve problems (Evaluating)

Evaluation Methods: Your grade will be based on the following distribution:

| | | |
|--------------|--|-----|
| Exam 1 | Friday, 1/25* | 20% |
| Exam 2 | Friday, 2/22* | 20% |
| Exam 3 | Wednesday, 3/20* | 20% |
| Quizzes & HW | Mondays (except test weeks) | 10% |
| Final Exam | Wednesday, May 1st, 8:00 a.m. – 10:30 a.m. | 30% |

*These dates are tentative and may be changed with adequate prior notice.

The following scale will determine your grade:

| | | | |
|--------------|----|-------------|----|
| 93.0-100.0 % | A | 77.0-79.9 % | C+ |
| 90.0-92.9 % | A- | 70.0-76.9 % | C |
| 87.0-89.9 % | B+ | 67.0-69.9 % | C- |
| 83.0-86.9 % | B | 64.0-66.9 % | D+ |
| 80.0-82.9 % | B- | 55.0-63.9 % | D |

Note: If there is a compelling reason, I may lower the standards. I will not raise them. The translation of this statement is (for example): If you complete the course with an 89.0%, there is a chance you could get an A- instead of a B+, but if you complete the course with a 90.0%, you are guaranteed no lower than an A-.

Homework policy: Homework problems will generally be posted on Blackboard after each class period. You are expected to turn in the homework in one week.

Quizzes and Exams: Quizzes (in-class) will be given right after the submission of the homework. The quiz problems will generally be similar to the homework problems. In case, you have to miss a quiz or exam quiz, and you are traveling on a WJU sanctioned event, you must notify me AT LEAST ONE WEEK IN ADVANCE to make arrangements.

Attendance Policy: It is valuable to you to attend and participate in every class. The official WJU attendance policy dictates that for this class, which meets four times a week, you are permitted at most eight absences. Exceeding this maximum number will result in a grade of "FA," (failure due to excessive absences). There may be an exceptional circumstance when you must miss a class—this is understandable. However, as a rule, **YOU ARE EXPECTED TO ATTEND EVERY CLASS. EXCESSIVE ABSENCES WILL ADVERSELY AFFECT YOUR GRADE.** If you miss a class, you are expected to do the assignment as posted on Blackboard, and be prepared for the next class.

Last Date to Add/Drop the Course: Friday, 1/11

Last Date to Withdraw from the Course: Tuesday, 3/26

Disability Statement:

Wheeling Jesuit University offers students with documented disabilities individual accommodations on a case-by case basis with confidentiality in compliance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973.

In order to receive academic or physical accommodations, students with disabilities must provide current (within three years) and comprehensive documentation concerning the nature and extent of the disability and communicate their needs to the Disability Services Director, located in Ignatius Hall Room G 24 or call 304-243-4484. Students are required to meet with the director to develop accommodation plans that they will present to their course instructors at the beginning of each semester. Students with disabilities that require specific housing accommodations must contact both the Director of Residence Life and the Disability Services Director.

Ultimately, all students with disabilities are responsible for their own academic achievement. They must attend classes, complete course assignments, and fulfill all university requirements for their chosen field of study. It is up to students with disabilities to seek out available assistance on campus and to utilize individualized accommodations that promote academic success.

Academic Integrity Statement:

Students are advised that WJU's Academic Integrity Policy will strictly be enforced in this course (see www.wju.edu/studenthandbook). Questions regarding the policy may be directed to the Office of the Academic Vice-President

Official E-mail: An official WJU e-mail is established for each registered student, each faculty member, and each staff member. All university communications sent via e-mail will be sent to this WJU e-mail address.

The Academic Resource Center:

The Academic Resource Center (ARC) is a totally free academic-support service available to all enrolled Wheeling Jesuit University students and staffed almost exclusively by WJU students recommended for employment by WJU faculty. The ARC is located in Bishop Hodges Library and is open five days a week:

Sundays 6:00-8:00 p.m.

Mondays-Thursdays 1:00-9:00 p.m.

Please visit the ARC's website (readily accessible on the Cardinal homepage under "Quick Links" or as the first listing under "Student Services") to learn about the ARC's services (emphasizing writing, math, and the sciences) and to schedule appointments.

Title IX Statement:

Wheeling Jesuit University seeks to provide an environment that is free of bias, discrimination, and harassment. If you have been the victim of sexual harassment, misconduct, or assault we encourage you to report this. If you report this to a faculty member, she or he must notify our college's Title IX coordinator about the basic facts of the incident (you may choose whether you or anyone involved is identified by name). For more information about your options at WJU, please go to <http://wju.edu/titleix/>.

Outline:

Chapter 1

1st exam, fourth week of January

Chapter 2 and Chapter 3 part 1

2nd exam, third week of February

Chapter 3 and Chapter 4 part 1

3rd exam, last week of March

Chapter 4 completion and review in April

Final exam (cumulative) in the first week of May