

Syllabus

MATH 1231 – Single-variable Calculus I
Summer 2016

Instructor Information

Instructor Debdeep Bhattacharya
Office Hours MTWR, 11:00 am - 12:00 pm, Phillips 720G
Email debdeepbh@gwu.edu

Course Information

Lecture Times MTWR, 12:30 pm - 2:00 pm
Room Phillips 111
Textbook Calculus, 8th Edition by James Stewart

Prerequisites

High school algebra, geometry and trigonometry

Learning Goals

We will cover the first 5 chapters of the textbook with a few sections omitted. By completing this course, students should be able to:

- Draw the graph of a function based on its definition and perform mathematical operations on functions
- Explain the idea of a limit, calculate the limiting values and use it to analyze the continuity of various functions
- Understand the definition of a derivative, and use differentiation techniques to analyze functions, solve the tangent problem, find rates of change, and optimize quantities
- Understand the definition of an integral, and use basic integration techniques to find the area under a curve, the area between curves, volumes of revolution, and the net change of a function
- Write mathematical statements coherently following traditional notations and symbols

Written Homework

In every class, 5 problems from the textbook will be assigned as a homework which will be due in the **beginning of the next class**. I will collect these homework assignments on random days and choose a few problems to grade. The purpose of this homework is to ensure that you can write solutions in the correct mathematical language.

At least 2 of your lowest homework grades will be dropped.

Please make sure that your **full name** and **date of submission** are clearly written on the top of each homework that you turn in.

WebAssign Homework

Online homework assignments will be posted on WebAssign and will be due on **every Sunday 11:59 pm**. So, **you must gain access to WebAssign as soon as possible**.

Follow these steps to gain access to WebAssign:

1. Go to <https://www.webassign.net>.
2. Click the gray ENTER CLASS KEY button at the top.
3. Enter the following class key: **gwu 6875 0629**. Then verify the class.
4. If you already have a WebAssign account, click the second option to log in. Otherwise, select the first option and follow the prompts to create a new WebAssign account.

After enrolling in the course and creating a WebAssign account, you will need to purchase access to continue using WebAssign. You can do this in two ways:

1. Purchase a hardcover copy of the textbook, which should provide you with an **access code**. Then log into the course on WebAssign and select the option **enter the access code**.
2. Purchase WebAssign access and the eBook directly online by logging into the course on WebAssign, and selecting the option **purchase access online**.

In-class Quizzes

There will be 4 in-class quizzes, each based on the material covered in the previous week. Typically, each quiz will contain 2 questions and you will be allotted 15 minutes to complete each quiz.

Tests

- The midterm will cover everything discussed in the class up to July 21. You will be allotted 1.5 hours for the midterm and the venue is the classroom.
- The final exam will be scheduled later by the Registrar's Office and will be announced when scheduled. The final exam is **cumulative** but will depend heavily on materials covered after the midterm.

Academic Calendar

Quiz 1	July 11, Monday
Quiz 2	July 18, Monday
Midterm	July 25, Monday
Quiz 3	August 1, Monday
Quiz 4	August 8, Monday
Final exam	To be announced

Grading Scheme

- Apart from mathematical accuracy, your grade on the tests and the quizzes will depend on amount of work shown on paper. For incorrect answers, partial grades will be given based on whatever portion is correct. However, **no points will be given if you do not show any work, even though the answer is correct.**
- Your grades will be posted on Blackboard(<https://blackboard.gwu.edu>). It is your responsibility to verify that the grade posted on Blackboard is consistent with the grade given on the graded paper. You are responsible for holding on to the graded papers until the end of the course.
- Your final grade percentage consists of the following:

Written homework	10%
Webassign homework	20%
In-class quiz	20%
Midterm	25%
Final exam	25%

- Based on your final grade, a letter grade will be assigned according to the following table:

Percentage	Letter Grade
90 - 100	A
80 - 89	B
70 - 79	C
60 - 69	D
0 - 59	F

Class Policy

- It is your responsibility to check Blackboard everyday for announcements regarding the course.
- You are encouraged to seek help on the assignments from classmates, a tutor or me. However, the work you hand in should be your own.
- **Calculators are not allowed** during any exam or quiz. You should be able to solve all the problems **without** the use of a calculator.
- You are **not** allowed to use books, notes or any other material during any exam or quiz.
- There will be no make-up exams or quizzes unless there is a valid written explanation with supporting document produced. If you feel like you are going to miss a test or a quiz, you can contact me to schedule it in advance.
- Late submission of homework assignments will not be accepted under any circumstances.
- As a courtesy to others, cell phones, texting devices, laptops, and all other potentially distracting devices should be turned off during class.

Academic Integrity

Academic dishonesty is defined as cheating of any kind, including misrepresenting one's own work, taking credit for the work of other without crediting them and without appropriate authorization, and the fabrication of information. For the remainder of the code, see: <https://studentconduct.gwu.edu/code-academic-integrity>.

Support for Students

- **Disability Support Services:** Any student who may need an accommodation based on the potential impact of a disability should contact the DSS office at 202-994-8250 in the Rome Hall, Suite 102, to establish eligibility and to coordinate reasonable accommodations. For additional information please refer to <https://disabilitysupport.gwu.edu>.
- **University Counseling Center:** The UCC (202-994-5300) offers 24/7 assistance and referral to address students' personal, social, career, and study skills problems. Services for students include: crisis and emergency mental health consultations; confidential assessment, counseling services (individual and small group), and referrals. For additional information please refer to: <https://counselingcenter.gwu.edu>.