COURSE DESCRIPTION
CALCULUS I
MA 125–6C, 31921
SPRING 2018

DEPARTMENT OF MATHEMATICS
UNIVERSITY OF ALABAMA AT BIRMINGHAM

Course Instructor: Sourav Bhattacharya
Office: CH 476B
Phone#: (205) 447-3520
E-mail: sourav@uab.edu
Office Hours: Monday, Wednesday / 2:30 PM–3:30 PM

Meeting times: Monday, Wednesday / 12:20 PM - 2:10 PM
Meeting location: HB 311
Prerequisite: Grade of C or better in MA 106, MA 107 or equivalent. *Any student who has not fulfilled the prerequisite will be dropped from the class.*
Credits: 4 semester hours

Important dates:
First day of classes: January 8, 2018(Monday)
Martin Luther King Holiday: Jan 15 2018(Monday)
Last day to drop without paying full tuition: Jan 16 2018(Tuesday)
Last day to withdraw with a “W”: Mar 2 2018(Friday)
Spring Break: Mar 12 - 18 2018
Last day of class: Apr 20 2018 (Friday)

Course policies:
- Please make sure that you are able to receive e-mail through your Blazer-ID account. Official course announcements may be sent to that address.
- If your are contacted by the Early Alert Program, you should consider taking advantage of the services it offers. Various services to assist you are also listed in the *Student Resources* section of the *Blazernet* web site.

Date: The 2nd January 2018.
• If you wish to request a disability accommodation please contact DSS at 934-4205 or at dss@uab.edu.
• If a test is missed due to a serious verifiable circumstance or official university business, the test grade will be replaced with the properly rescaled final exam score. If you miss the final exam you will receive a zero score for this exam. In all cases you must contact your instructor of such circumstances before the exam takes place.
• Calculators (without internet access) will be allowed during any of the tests or quizzes. In addition, students can bring one quick reference card to tests including the final exam (i.e., a standard size 5" × 8"-index card; both sides can be used).

Methods of teaching and learning:

The only way to learn mathematics is to do mathematics. - Paul Halmos

• 10% of your total grade will be determined by attendance.
• Class meetings will be of 100 minutes. In the class, I will lecture the entire theory in exhaustive details and also solve numerous problems in the board. You have to meticulously observe how I use the theoretical concepts to solve various challenging yet beautiful calculus problems. You should ask me with any problems you face in understanding, directly during the class hours or during office hours. Then your work would be to use these techniques which you learned during the class to do the homework problems. The problems asked in the test are modelled on the homework problems and the problems I will do in the class.
• Students are expected to undertake at least 10 hours of private study and homework per week.
• The online homework system WebAssign will be used (look for more information below).

Assessment procedures:

• Student achievement will be assessed by the following measures:
  – HOMEWORKS:- (25 % OF TOTAL COURSE AVERAGE). Homework is completely online and is assigned through Web assign. Feedback is provided when wrong answers are given. Students are encouraged to retake the homework problems (with randomly changed parameters) until they obtain correct answers. A limited number (at most 3) of takes is allowed during the week in which the set is available. Problems on tests are modeled after homework problems. Staying on top of homework is therefore extremely important. This allows students to gauge whether they are ready to work problems in a test situation.
  – FOUR IN-CLASS TESTS:- (EACH TEST WILL ACCOUNT FOR 10 % OF TOTAL COURSE AVERAGE) Each test will include short questions (Part I) as well as problems requiring in depth understanding (including word-problems). Partial credit is awarded where appropriate. The four tests thus in total will contribute for 40% to the total course average.
– **A 150-MINUTE COMPREHENSIVE FINAL EXAMINATION:** (25% OF TOTAL COURSE AVERAGE). The test will include Part I and Part II type problems. Past tests are available at [www.math.uab.edu](http://www.math.uab.edu) under Student Resources/Calculus Testbank.

– **ATTENDANCE:** (10% OF TOTAL COURSE AVERAGE). Roll will be taken in the beginning of every class. If you are unable to attend class, you must email me **BEFORE** that class take place and bring me a verifiable excuse later.

- Your course performance is your course average (including the final exam score). This is a number between 0 and 100.
- Your final grade is determined according to the following table:

<table>
<thead>
<tr>
<th>Course performance:</th>
<th>88-100</th>
<th>75-87</th>
<th>62-74</th>
<th>50-61</th>
<th>below 50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final Grade:</td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>F</td>
</tr>
</tbody>
</table>

- In addition your grade maybe raised by a strong performance on the final exam (normally at most one letter grade).

**Tips:**
- Past tests are available at [www.math.uab.edu](http://www.math.uab.edu) under Student Resources/Calculus Testbank.
- Help is available in the Math Learning Lab (HH 202); M–Th 9–8, F 9–5.
- By working steadily and regularly, you will increase your chances to succeed in this course.
- Remember, being a full-time student is a full-time job.

**How to get started on Enhanced WebAssign:**
(1) Go to [www.webassign.net](http://www.webassign.net) and click on **I HAVE A CLASS KEY** in the **signin** link.
(2) Enter the following course key: **uab 7669 0573**

and proceed. (If prompted for your institution, enter **uab**)

(3) When prompted to purchase an access code, select **“...trial period”** (Do not purchase an access code at this time. However, you must purchase an access code within two weeks for you to continue using the system beyond the two-week trial period. The system will prompt you to enter your access code when the deadline approaches. Your book may have an access code bundled with it. You must use it.)

(4) After your first registration, you can sign in as returning user.
(5) Should you run into technical problems Enhanced WebAssign provides technical support online and/or by phone.
Sections to be covered:


- Chapter 1: 1.1 – 1.6.
- Chapter 2: 2.1 – 2.5 and 2.8.
- Chapter 3: 3.1 – 3.7.
- Chapter 4: 4.1 – 4.5.
- Chapter 5: 5.1–5.3.