COURSE DESCRIPTION
CALCULUS I
MA 125 CT, 31916
SPRING 2020

DEPARTMENT OF MATHEMATICS
UNIVERSITY OF ALABAMA AT BIRMINGHAM

Course Instructor: Sourav Bhattacharya
Office: University Hall, UH 4013
E-mail: sourav@uab.edu
Office Hours: *email for appointment.*

Meeting times: Monday,Tuesday,Wednesday,Thursday,8:00 am -8:50 am
Meeting location: UH(University Hall),UH 2011
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
Course study material: (1) ***Calculus I Notes***:My handwritten notes on Calculus I is available on *Canvas* in the *Files* section.
(2) ***Textbook***:*Essential Calculus — second edition* by James Stewart, Thomson-Brooks/Cole, 2013, 2007; ISBN-13: 978-1-133-11229-7. Topics to be covered: Chapters 1 — 5.3.

Important dates:

First day of classes: Monday,January 13,2020.
Martin Luther King Holiday: Monday,January 20,2020.
Last day to drop without paying full tuition : Tuesday,January 21,2020.
Last day to withdraw with "W": Friday,March 13, 2020.
Spring Break: Monday-Friday, March 16-22,2020.
Last day of class: Friday, April 24, 2020.

Major exams (tests):	Test I: On Thursday February 13 2020 ; Test II: On Thursday March 5 2020 ; Test III: On Thursday, April 2 2020; Test IV: On Monday,April 20 2020 ;

Final exam: The April 29,2019 (Wednesday) 1:30–4 PM (Location to be announced.)

Date: The 13th January 2020.

NOTE DATE AND TIME OF FINAL EXAM!!!

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 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 $5'' \times 8''$-index card; both sides can be used).

Methods of teaching and learning:

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

- In the Class meetings of 100 minutes, I will go through the Calculus I notes in the Canvas line by line.I will solve all the problems given in the exercise of the notes.
- The online homework system WebAssign will be used.
- Problems in the tests will be modeled on the class note and homework problems.
- Students are expected to undertake at least 24 hours of private study per week in which they MUST revise the class note problems and do the assigned homeworks.
- 5% of your total grade will be determined by attendance. If you are unable to attend class, you must email me **BEFORE** that class take place and bring me a verifiable excuse later.You will not get attendance for a day if you arrive late or leave early without informing me earlier through email.

Assessment procedures:

- Student achievement will be assessed by the following measures:
  (1) **HOMEWORKS:- (20 % 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.
  (2) **FOUR IN-CLASS TESTS:- (EACH TEST WILL ACCOUNT FOR 10 % OF TOTAL COURSE AVERAGE)** Each test will consist of 14 problems. Answers are to be written in the space provided in the question paper. each question. All workings for a particular problem must be shown clearly to

get full credit. A correct answer, unsupported by calculations, explanation, or algebraic work will receive no credit; an incorrect answer supported by substantially correct calculations and explanations might still receive partial credit.

(3) **A 150-MINUTE COMPREHENSIVE FINAL EXAMINATION:-(35 % OF TOTAL COURSE AVERAGE).** The test will include Part I and Part II type problems. Past tests are available at `www.math.uab.edu` under Student Resources/Calculus Testbank

(4) **ATTENDANCE:-(5 % OF TOTAL COURSE AVERAGE).** Roll will be taken in the beginning of every class.

- 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:

Course performance:	88-100	75-87	62-74	50-61	below 50
Final Grade:	A	B	C	D	F

- 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` 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* and click on *I HAVE A CLASS KEY* in the *signin* link.

(2) Enter the following course key:

uab 5316 7520

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:

Essential Calculus, second edition by James Stewart, Thomson-Brooks/Cole, 2013, 2007, ISBN-13: 978-1-133-11229-7.

- 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.