

DEPARTMENT OF MATHEMATICS

COURSE SYLLABUS FOR MA 126-8C CALCULUS II

Instructor Information

Primary Instructor: SOURAV BHATTACHARYA

Contact information:

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Instructional Method

Hybrid: This class will be a mixture of in-person and on-campus instruction and remote learning components. Students should be available on the days and hours listed in the Class Schedule. Students will be assigned which days to attend class in person.

Teaching Time Zone

Central Time U.S.

Basic Course Information

Course number and title: CALCULUS II ,MA 126-8C

Meeting times: TUESDAY AND THURSDAY, 5:00 PM TO 6:50 PM

Meeting location: HERITAGE HALL BUILDING HHB 121

Course Study Materials: My own notes on Calculus II (Note 1 to Note 10) are uploaded in the Canvas in the files section. They will act as the primary study materials for the Course.

Additional Study Materials: The Textbook : *Essential Calculus, Second Edition* by James Stewart, Thomson-Brooks/Cole, 2013, Chapters 4–8,10 can be studied for extra knowledge.

IMPORTANT DATES FOR THE COURSE

First day of classes: TUESDAY, JAN 19, 2021

Last day to drop without paying full tuition: MONDAY, JAN 26, 2021

TEST I: TUESDAY, FEB 16

Syllabus: Note 1(Inverse Functions), Note 2(Techniques of Integration) and Note 3(Improper Integrals)

TEST II: TUESDAY, MARCH 9

Syllabus: Note 4(Application of Integration), Note 5(L-Hospital's Rule), Note 6(Application to Physics and Engineering) and Note 7(Simpson's Rule)

TEST III: TUESDAY, MARCH 30

Syllabus: Note 8(Vectors), Note 9(Vector Calculus)

TEST IV: THURSDAY, APRIL 15

Syllabus: Note 10(Sequences and Series)

Last day of class: Friday April 23, 2021.

FINAL EXAM: WEDNESDAY, APRIL 28

Syllabus: Whole Syllabus(Note 1 to 10)

COURSE OFFICIAL POLICIES

- **CORRESPONDENCE:** *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.*
- **METHOD OF TEACHING:** *In the class meetings of 2 hrs I will explain the theory in the Notes and do the problems from the exercises.*
- **HOMEWORK:** *The homework is completely online and given through a software called Webassign. Follow the following steps:*
 - (1) *Go to www.webassign.net and click on I HAVE A CLASS KEY in the signing link*
 - (2) *Enter the following course key:*

uab 0485 4118

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. Considering buying options, you may also want to look at <https://www.cengage.com/unlimited/>*
 - (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.*
- **CONDUCT OF TESTS:** *The question paper will consist of 10 problems. The questions will be modeled on the exercises in the Notes. You are required to show your work for each problem. The tests will be conducted through Zoom. On test day the students are expected not to come to the class. The following rules will have to be followed:*
 - (1) *The question paper will be emailed to you at at 5:00 pm on the Test Day*
 - (2) *You will write your answers in a separate sheet of paper.*
 - (3) *Before starting to write, you will join the Zoom meeting for that day. You will keep your camera on during the entire duration of the test so that I can proctor you.*
 - (4) *After writing the test, you will take a snap of your answers or scan it, convert the file to pdf and then upload the file to canvas at the slot meant for the test no later than 7:00 pm.*

- (5) Any student who will not follow the rules like keeping camera open or submit file on time will be disqualified for the test.
- **MISSED TEST:** *If a test is missed due to a serious verifiable circumstance or official university business, the test grade will be replaced with the final exam score. Otherwise, if you miss an exam you will receive a zero score for this exam. In the unlikely event when two or more midterm tests are missed due to a serious verifiable circumstance or official university business, the matter will be resolved on the case by case basis in cooperation between the student, the instructor, and the coordinator of Calculus I classes. In any case you **must** inform your instructor of such circumstances **before** the exam takes place.*
 - **INDEX CARD:** *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).*
 - **ASSESSMENT PROCEDURE:** Student achievement will be assessed by the following measures:
 - **Regular online homework** *Homework carry 6 % of the total course average.*
 - **Four midterm tests.** *Each test contributes 14% to the course average.*
 - **A 150-minute comprehensive final examination.** *The final contributes 30% to the course average.*
 - *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

DSS Accessibility Statement.

Accessible Learning. UAB is committed to providing an accessible learning experience for all students. If you are a student with a disability that qualifies under Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act, and you require accommodations, please contact Disability Support Services for information on accommodations, registration and procedures. Requests for reasonable accommodations involve an interactive process and consist of a collaborative effort among the student, DSS, faculty and staff. If you are registered with Disability Support Services, please contact DSS to discuss accommodations that may be necessary in this course. If you have a disability but have not contacted Disability Support Services, please call (205) 934-4205, visit their website, or their office located in Hill Student Center Suite 409.

COVID-19 Adjustments for Students. Students concerned about their attendance as a result of COVID-19 should register with Disability Support Services. UAB Disability Support Services (DSS) has established a process for UAB students to request temporary

adjustments based on the impact of COVID-19. The process is similar to the traditional DSS registration procedures for accommodations based on disability. However, these requests will be referred to as “COVID-19 Related Temporary Adjustments”. On the DSS website, there is a section (next to the traditional DSS application process) titled “Request COVID-19 Temporary Adjustments” where students can read the process and click to complete an application. On the application, the student must complete an attestation and identify which of the following category(s) applies to their situation. Students will be allowed to submit documentation to support their requests.

- I am 65 or older
- My medical provider has determined that I am an individual who is considered high risk according to Centers for Disease Control and Prevention
- I care for or reside with an individual who has been determined to be high risk according to Centers for Disease Control and Prevention
- I have tested positive for COVID-19
- I am requesting adjustments for another reason

Any questions regarding this process should be referred directly to dss@uab.edu. For qualifying students, DSS staff will create a Notification of Temporary Adjustment Letter (PDF format) which will be provided to students. Students will share this letter, as needed, with instructors to request adjustments.

Title IX Statement.

The University of Alabama at Birmingham is committed to providing an environment that is free from sexual misconduct, which includes gender-based assault, harassment, exploitation, dating and domestic violence, stalking, as well as discrimination based on sex, sexual orientation, gender identity, and gender expression. If you have experienced any of the aforementioned conduct we encourage you to report the incident. UAB provides several avenues for reporting. For more information about Title IX, policy, reporting, protections, resources and supports, please visit UAB Title IX webpage for UAB's Title IX, UAB's Equal Opportunity, Anti-Harassment, Duty to Report, and Non-Retaliation policies.

Mandatory Masks and Social Distancing Requirements. In accordance with CDC guidelines and for the health and wellbeing of all faculty, staff and students. Students, faculty and staff are required to wear cloth face coverings or face masks at all times and maintain social distancing (6 feet between individuals in traditional classrooms, or, in instructional laboratories and similar settings) while on the UAB campus. Instructors have the right to ask those who are not complying with these requirements to leave class in the interest of everyone's health and safety. In the event that a student refuses to comply with these requirements, the instructor has the right to cancel class.

Additionally, following other simple practices will promote good health in and out of the classroom, such as frequent and thorough hand washing, wiping down desks and seats

with disinfectant wipes whenever possible, not sharing personal items such as pens and cell phones, and avoiding crowded areas and other enclosed spaces.

The UAB Blazer community views the adoption of these mandatory guidelines as a mark of good citizenship and respectful care of fellow classmates, faculty, and staff. Please visit the UAB United website for further information. Food may not be consumed during class times in classrooms, but bottled water is permissible.

GuideSafe Event Passport Class Requirement. Faculty are required to verify all students who are present for in-person instruction have a current Event Passport.

The COVID-19 pandemic is an extraordinary situation requiring significant measures to create a safe educational community. UAB is using GuideSafe? Event Passport to facilitate access to classrooms, meetings, events, or facilities having ten or more people. Attendees, including faculty, staff, and students, will complete UAB Healthcheck, a COVID-19 assessment tool, prior to entering their event. An Event Passport is issued based factors from your daily risk level as assigned by the UAB Healthcheck. After you have completed Healthcheck, press the ?Passport? button to get your passport. This passport is good for 24 hours. Remember your passport number to access your passport later in the day. Each user is assigned a unique passport number indicating their status for the upcoming event that will show a ?Clear? (Green) screen or ?Not Clear? (Red) screen. After the 24-hour passport has expired, you will need to complete Healthcheck again. Each passport will have a time and date to ensure validity. Learn more at UAB GuideSafe Event Passport.