

Type	Section	Time	Location	Instructor
Lecture	39468D	MWF 11:00-11:50am	Zoom	Haitian Yue
Discussion	39469R	TuTh 12:00-12:50pm	Zoom	Elif Uskuplu
Discussion	39470R	TuTh 1:00-1:50pm	Zoom	Elif Uskuplu

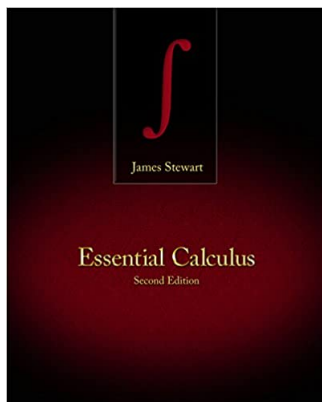
Disclaimer: This syllabus does not constitute a contract. The instructor reserves the right to make changes at his discretion throughout the semester.

Contact Information:

- **Instructor:** Haitian Yue
Office: KAP 416F
Email: haitiany@usc.edu
Office hours: Thursday 3:00 - 5:00 pm via Zoom
- **TA:** Elif Uskuplu
Email: euskuplu@usc.edu

Course Description: We will cover the fundamentals of differential and integral calculus in one variable, including limits, continuity, derivatives and applications, antiderivatives, the Fundamental Theorem of Calculus and exponential and logarithmic functions. We will closely follow the first five chapters of the textbook.

Course Textbook: J. Stewart, *Essential Calculus*, Second Edition.



Topics: All sections from 1.1 to 5.5, except 3.6.

- **basic notions** (§1.1-1.6): functions; limits; continuity.
- **derivatives** (§2.1-2.8): derivatives; power, product, quotient, and chain rules; implicit differentiation; related rates; linear approximations.
- **applications of differentiation** (§3.1-3.5, §3.7): maximum and minimum values; mean value theorem; concavity and inflection points; curve sketching; optimization; antiderivatives.
- **integrals** (§4.1-4.5): areas under curves; Riemann sums; definite integrals; evaluation of definite integrals; fundamental theorem of calculus; integration by substitution.
- **inverse functions** (§5.1-5.5): inverse functions; logarithm and exponential functions; exponential growth and decay.

Blackboard learning management system: Homework assignments as well as announcements concerning the course will be posted to Blackboard <http://blackboard.usc.edu>. Your homework assignments and quizzes are required to be uploaded in the Blackboard system. It is your responsibility to **check Blackboard frequently**. Your scores will also be recorded on Blackboard. It is your responsibility to check that your scores are recorded correctly.

Zoom: Our lectures, office hours, discussions and exams are all via Zoom. Please download the Zoom software in <https://zoom.us/download> for many different platform (e.g. PC, Mac, iOS and Android etc). You should have your **camera on** for all Zoom meetings. For audio, it helps to have your own microphone **muted** until you want to speak or ask a question.

I will record lectures live each **Mon/Wed/Fri at 11-11:50am** and you may either attend this session or watch the recording when it is posted at the end of the day.

For the lectures, my office hours and exams, we will use the following Zoom ID:

- **Zoom Meeting ID: 994 3058 5928**
- **Passcode: calculus**

Also you could join Zoom Meeting via this link:

<https://usc.zoom.us/j/99430585928?pwd=OTBYdWdLeWd1OFBwRUx5b2REYVlQdz09>

For the discussions, we will inform you the Zoom ID later.

Important Dates:

Sept. 4, Friday	Last day to add or drop ¹ classes.
Sept. 25, Friday	Midterm # 1; in class.
Oct. 2, Friday	Last day to drop a course without a mark of “W” on the transcript.
Oct. 30, Friday	Midterm # 2; in class.
Nov. 6, Friday	Last day to drop a class with a mark of “W”.
Nov. 18, Wednesday	Final exam; Time: 2-4pm; Place: Zoom.

Grade weights:

Midterms:	2×20%
Final Exam:	30%
Quizzes:	10%
Homework:	20%

Homework: Homework will be assigned and posted in Blackboard on Fridays, and will be due at the **11:59 pm, Fridays**. The homework **should be submitted in the Blackboard system**. An assortment of the problems from each homework will be graded. In your solutions, you should give at least a brief explanation where applicable (e.g. for problems whose answer is just “yes” or “no”). No homework will be due in the same week as an exam. In order to account for unexpected circumstances, **your lowest two homework scores will be dropped**.

Quizzes: There will be quizzes at the end of Tuesday discussion sessions, which cover the material on the homework that is due Thursday in the same week. The quizzes **are also required to be submitted in the Blackboard system**. There will be no quiz the first week, and no quiz in the same week as an exam. **No make-ups under no circumstances**. In order to account for unexpected circumstances, **your lowest two quiz scores will be dropped**.

Exam Policy:

- If there is a scheduling conflict for an exam, you must **let ME know (NOT the TA) at least 2 weeks before the examination**. A scheduling conflict must involve an activity sponsored and approved by USC (marching band, athlete event, etc.). In particular, the university club or organization in question must send an official request, with the Dean’s approval, to all faculty. Personal activities do not qualify. **FAILURE TO ATTEND AN EXAMINATION WILL NOT BE EXCUSED UNDER NO CIRCUMSTANCES**.

¹drop without a mark “W” and receive a refund

Academic Integrity: You must abide by the university policies on academic integrity. Please review them [here](#). In essence, these policies require you to be honest. So, please: be honest.

Students with disabilities: Any student requesting academic accommodations based on a disability is required to register with Disability Services and Programs (DSP) each semester. A letter of verification for approved accommodations can be obtained from DSP. Please be the letter is delivered to the instructor as early in the semester as possible. DSP is located in STU 301 and is open 8:30a.m.-5:00p.m., Monday through Friday. The phone number for DSP is (213) 740-0776.