Instructor: Slobodan Simić

Class time and location: MW 12:00-1:15 PM in WSQ 109

Office: 318A MacQuarrie Hall

Phone: (408) 924-7485 (not a good way to get in touch with me!)

Email: slobodan.simic@sjsu.edu

Best way to contact me: Through Piazza.

Office hours: In person: Mondays 1:15-2:45 PM, Wednesdays 9:00-10:30 AM, and by appointment. Online: most days and times on Piazza (see below).

Course web page: http://www.math.sjsu.edu/~simic/Spring16/Math30/30.html


Prerequisite: Satisfaction of the ELM requirement. Satisfactory score on the Mathematics Placement Exam or Math 19 (with a grade of B or better to waive the placement exam). Co-requisite: Math 30W; to opt out of Math 30W, contact the Mathematics and Statistics Department Office.

Students who intend to use this course to satisfy the mathematical concepts requirements for general education must earn a grade of C or higher.

Catalogue description: Introduction to Calculus including limits, continuity, differentiation, applications and introduction to integration. Graphical, algebraic and numerical methods of solving problems. 3 units.

Workshops: Students in Math 30 are required to sign up for the workshop (Math 30W). In the workshops, students work together in small groups on challenging problems to help them understand Calculus concepts more deeply. Both the lecture and the workshop must both be in your “shopping cart” at the same time when you are checking out. If you are having trouble registering, contact the Math Office, MH 308, (408) 924-5100.

Students can opt out of a required workshop by filling out the online form. See the Opt-Out Information page on the Math Department web site to find out more.

Homework: There will be weekly homework assignments consisting of two parts: (1) WebAssign homework will be graded and will count toward your grade; (2) Homework from the textbook will not be collected or graded, but it is essential that you do it!

WebAssign: WebAssign (http://www.webassign.net) is an online instructional system we will be using for homework assignments. You need to purchase it with the textbook. To learn how to get started, visit https://webassign.com/students/getting-started/. The class key is sjsu 0394 5230.
Quizzes: Every week there will be a short in-class closed-book quiz. The quiz will be given on the day that week’s homework assignment is due and will consist of one randomly selected problem taken straight from the textbook part of that assignment. One purpose of the quizzes is to help make sure that you keep up with the material and that you are doing the homework.

There will be no makeup quizzes, but the lowest three quiz scores will be dropped.

Exams: There will be two in-class midterms and a final exam. Due to scheduling constraints it will not be possible to give makeup exams. Please mark your calendars:

Midterm 1: Monday, March 7, 2016
Midterm 2: Monday, April 18, 2016
Final exam: Thursday, May 19, 2016, 9:45 AM–12:00 PM

Grading policy: Homework 10%, Quizzes 10%, Midterm 1 25%, Midterm 2 25%, Final 30%. See the class web page for a detailed grading policy.

Course outline: Please see the course web page for a detailed class schedule.

Course objectives: The student should be able to:

1. Solve first-order separable and linear differential equations.
2. Find limits of functions algebraically, graphically and based on tables of numerical data, including infinite limits and limits at infinity.
3. Find a value for delta that satisfies the definition of a limit for a given value of epsilon.
4. Write a delta-epsilon proof for the limit of a linear function.
5. Determine whether functions are continuous algebraically and graphically.
6. Find the derivative of a function using the definition of the derivative.
7. Find the derivative of a function using rules such as the product rule, quotient rule and chain rule.
8. Be able to find derivatives using the methods of implicit differentiation and logarithmic differentiation.
9. Find the equation of the tangent line to a curve.
10. Solve applied problems involving instantaneous rates of change.
11. Use differential calculus concepts to sketch the graph of a curve by finding intervals on which the function is increasing, decreasing, concave up, concave down and finding the location of extrema and any possible asymptotes.
12. Use the derivative to solve applied optimization problems.
13. Compute limits involving indeterminate forms, including the use of L’Hôpital’s Rule.
14. Find the antiderivative of basic functions.

Piazza: For most out-of-class Q&A we will be using Piazza (https://piazza.com). Piazza is a free online gathering place where students can ask, answer, and explore 24/7, under the guidance of their instructors. On the class dashboard, students can post questions and collaborate Wikipedia-style to edit responses to these questions. The instructors can answer questions, endorse student answers, and edit or delete any posted content. Each student will be invited to join Piazza by email. Please join it as soon as you can, as I plan to use Piazza extensively.

Participation: During class please feel free to stop me at any time and ask questions. I encourage and greatly appreciate students’ participation. I will add up to five extra points for participation to your final grade.
Class rules:  • Personal electronic devices must be turned off during class.
  • No food is allowed in the classroom.
  • Wandering in and out of the classroom is not allowed.

Feedback: I appreciate constructive feedback which you can give me via anonymous posting on Piazza, by email, or in person.

Academic integrity: From the Office of Student Conduct and Ethical Development: Your own commitment to learning, as evidenced by your enrollment at San José State University, and the University's Academic Integrity Policy, require you to be honest in all your academic course work. Faculty are required to report all infractions to the Office of Student Conduct and Ethical Development. The policy on academic integrity can be found at http://www.sjsu.edu/studentconduct/.

Tutoring: Peer Connections offers free mentoring and tutoring services to undergraduate SJSU students. Their locations are Student Services Center in SSC 600 and the Academic Success Center on the first floor of Clark Hall. Their phone number is (408) 924-2587. For more information, visit their web site http://peerconnections.sjsu.edu. For Math Department tutors inquire in MH 308.

Accessible Education Center (AEC): If you need course adaptations or accommodations because of a disability, please register with AEC. The main office is located in ADM building, room 110. The website is http://www.sjsu.edu/aec.

Campus policy in compliance with the Americans with Disabilities Act: If you need course adaptations or accommodations because of a disability, or if you need special arrangements in case the building must be evacuated, please make an appointment with your instructors as soon as possible, or see them during office hours. Presidential Directive 97-03 requires that students with disabilities register with DRC to establish a record of their disability.

Class attendance: According to University policy F69-24, Students should attend all meetings of their classes, not only because they are responsible for material discussed therein, but because active participation is frequently essential to insure maximum benefit for all members of the class. Attendance per se shall not be used as a criterion for grading.

Course requirements: SJSU classes are designed such that in order to be successful, it is expected that students will spend a minimum of forty-five hours for each unit of credit (normally three hours per unit per week), including preparing for class, participating in course activities, completing assignments, and so on. More details about student workload can be found in University Policy S12-3 at http://www.sjsu.edu senate/docs/S12-3.pdf.

For more details, see the course web page.