

MATH 20A: Calculus for Science and Engineering I (Fall 2022)

Location: JEAN AUD, MWF 12:00-12:50pm.

Instructor: Andrew Suk, asuk@ucsd.edu

Office hours: Tue/Thur 1:30-2:30pm in APM 6210. Also by appointment.

Course Assistants:

TBD

Required Text: Single Variable Calculus: Early Transcendentals (4th Edition), by Jon Rogawski, Colin Adams, and Robert Franzosa; published by Macmillan Learning

Course Description: Foundations of differential and integral calculus of one variable. Functions, graphs, continuity, limits, derivative, tangent line. Applications with algebraic, exponential, logarithmic, and trigonometric functions. Introduction to the integral.

Prerequisites: Math Placement Exam qualifying score, or AP Calculus AB score of 3 (or equivalent AB subscore on BC exam), or SAT II MATH 2C score of 650 or higher, or MATH 4C or MATH 10A.

Grading: Version 1.

Discussion Section Attendance (1%). Details are below.

Homework (19%). Weekly assignments will be posted under Assignments.

Midterm Exam 1 on **Friday Oct 21, 2022, 6 - 7pm** (20%), will take place in PETER 108.

Midterm Exam 2 on **Friday Nov 18, 2022, 6 - 7pm** (20%), will take place in PETER 108.

Final Exam, on **Saturday Dec 3, 2022** (40%) 11:30am-2:30pm. TBD.

Version 2. Discussion section (1%), homework (19%), best midterm (20%), final exam (60%).

Final Grade: At the end of the course, we will calculate both versions of your grade and give you the higher score. Letter grades will be decided and assigned accordingly at the end of the quarter.

Exam Policies: One 8.5x11 sheet of notes will be allowed during the exams. Calculators, phones, headphones, and etc. will NOT be allowed. There are NO make-up exams for any reason and the exams will not be offered at alternate times.

ACADEMIC INTEGRITY: Cheating will not be tolerated. See the UCSD Policy on Integrity of Scholarship.

<http://senate.ucsd.edu/Operating-Procedures/Senate-Manual/Appendices/2>

Homework: Weekly online homework assignments are due on Thursdays at 11:59pm Pacific Time, are submitted using Macmillan Achieve (which can also be accessed through Canvas). Access code will be required, which can be obtained by purchasing the textbook. See link below:

<https://store.macmillanlearning.com/us/storefront/202107673>

The most popular choice is 2-term online. This means that you get access codes for 2 classes using Achieve. So if you plan to take Math 20B (which should use the same textbook and Achieve for HW), you will get access codes for Math 20A and Math 20B.

Homework Policy: No late homeworks will be accepted. There are 10 homework assignments, each worth a total of 30 points. This means there are 300 points possible in total. However, the maximum homework score is 270 points. This means that you don't have to do all of the problems in order to get 100%. Any score 270 or better will earn a score of 100%. (It's like dropping one assignment, but the dropped problems don't have to all come from the same assignment.) Late HW's will not be accepted.

Discussion Section: Attendance will be taken at each discussion section. Discussion sections will start on September 29 (week 1). There are 9 discussion section classes for the quarter, each attendance is worth 1 point. Hence, there are 9 points possible in total. However, the maximum score for attendance is 7, so you don't have to attend every discussion section. No score will be higher than 7.