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Prerequisite. AP Calculus AB score of 3, 4, or 5 (or equivalent AB subscore on BC exam), or Math 10A, or Math 20A. (No credit given if taken after or concurrent with Math 20B).

Catalog Description. Integral calculus of functions of one variable, with applications. Antiderivatives, definite integrals, the Fundamental Theorem of Calculus, methods of integration, areas and volumes, separable differential equations.


Subject Material. We will cover parts of Chapters 5, 6, 7, 8, and 11 of the text.

Homework. Homework is a very important part of the course, and in order to fully master the topics, it is essential that you work carefully on every assignment and try your best to complete every problem. No late homework will be accepted.

Pre-Class Exercises/Quizzes. This course moves fast during the summer, so to help everyone stay on schedule you will have one or two short exercises to complete on TED before each Monday and Wednesday lecture. On the first and third Fridays we will instead have a short quiz to begin class.

Reading. Reading the sections of the textbook corresponding to the assigned homework exercises is considered part of the homework assignment. You are responsible for material in the assigned reading whether or not it is discussed in the lecture. It will be expected that you read the assigned material in advance of each lecture.

Calculators. A graphing calculator (TI-83 or similar) is recommended (but not required). Some exercises in the textbook assume the use of a graphing calculator. The use of calculators will not be permitted during exams.

Midterm Exams. There will be two midterm exams. (See also the course calendar). You may bring a one sided 8.5 x 11 inch handwritten sheet of notes with you to each midterm exam. No calculators will be allowed. If you violate the instructions of a midterm you will receive a zero on that midterm, and the zero will not be dropped when calculating your cumulative course average. There will be no makeup exams.
Final Exam. The final examination will be held at the following date and time.

- **Saturday September 5th, 11:30am-2:30pm. Room: TBA**
  - It is your responsibility to ensure that you do not have a schedule conflict involving the final examination.
  - You should not enroll in this class if you cannot sit for the final examination at its scheduled time.
  - You may bring one 8.5 x 11 inch handwritten sheet of notes with you to the final examination (both sides of the sheet may be used for the final exam). No calculators will be allowed. If you violate the instructions of the final exam or communicate in any way with any other student during the final exam, you will receive a zero on the final exam.

Friendly Advice. Mathematics can be very frustrating if you are lost and confused, but very fun if you stay on top of things. In this five-week summer session we will cover the material normally covered in a ten-week course. You should expect to work on this course several hours every day outside of class. If you spend enough time solving problems and studying your notes, you will succeed. Come to class prepared and eager to learn. You should skim over the sections listed on the course calendar before lecture. You will be surprised the difference that a fifteen minute head start makes in how much you understand during a lecture.

Grading Policy. Your course grade will be determined by your cumulative average at the end of the term and will be based on the following scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A+</td>
<td>97</td>
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<tr>
<td>A</td>
<td>93</td>
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<tr>
<td>A-</td>
<td>90</td>
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<tr>
<td>B+</td>
<td>87</td>
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<td>B</td>
<td>83</td>
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<td>B-</td>
<td>80</td>
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<td>C</td>
<td>73</td>
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<td>C-</td>
<td>70</td>
</tr>
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<td>D</td>
<td>60</td>
</tr>
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We may adjust the scale to be more lenient, but we guarantee that the grade corresponding to a given percentage will not be lower than specified by the above scale. Your cumulative average will be the best of the following two weighted averages.

- 10% Homework (best 4 of 5), 10% Pre-Class/Quizzes (best 10 of 11), 20% Midterm Exam I, 20% Midterm Exam II, 40% Final Exam
- 10% Homework (best 4 of 5), 10% Pre-Class/Quizzes (best 10 of 11), 20% Best Midterm Exam, 60% Final Exam

Note: Since there are no makeup exams, if you miss an exam for any reason then your course grade will be computed with the final exam counting 60% of your weighted average.

Regrades. All graded materials will be returned in the discussion sections. If you find a grading or point totaling error on any graded material, you must return it immediately to your TA. Regrade requests will not be considered once the graded material leaves the room. If you do not retrieve your graded materials during discussion section, you must arrange to pick them up from your TA within one week after they were returned in order for any regrade request to be considered.

Academic Dishonesty. Academic dishonesty is considered a serious offense at UCSD. Students caught cheating will face an administrative sanction which may include suspension or expulsion from the university. It is in your best interest to maintain your integrity.