



Instructor: Dr. Raczkowski

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<http://www.csub.edu/~sraczkowski/>

Office Hours:

TWH 9:15 AM — 9:30 AM

T 10:45 AM — 12:00 PM

W 10:45 AM — 12:45 PM

H 10:45 AM — 11:45 AM

& by appointment or walk in.

Mathematics 202

Syllabus

Winter 2010

This is a second part in a series of four calculus courses. Upon successful completion of the course, you will be able to

- Appreciate the concept of the definite integral through the use of Riemann sum.
- Apply the Fundamental Theorem of Calculus to evaluate definite integrals.
- Apply techniques of integration, without the help of any computer algebra systems.
- Understand the concept of improper integrals, and methods of evaluation.
- Apply integration in applications such as including area, volume and average value of a function.
- Understand the concept of infinite sequences, and the concepts of boundedness and convergence of a sequence.
- Apply detailed analysis of series starting with partial sums; determine the convergence or divergence of a series by using various techniques, including the integral test, comparison test, limit comparison test and the ratio test; apply the analysis of alternating series.
- Understand the concept of power series, in particular, the Taylor and Maclaurin series.

Prerequisite: Math 201 (Calculus I) or equivalent. You must be concurrently enrolled in Math 222.

Text: *Calculus, Concepts and Contexts*, 4th edition, by J. Stewart.

Tentative Course Outline: We will go over the following sections in the order as listed:

- Appendix F,
- Sections 5.1 -5.7,
- Appendix G,
- 5.10,
- 6.1 - 6.3,
- 8.1- 8.7.

In addition, time permitting, we may go over 6.4, 6.5, 6.6, 6.7 and/or 8.8, 8.9.

Readings: You are responsible for reading at least twice each section of the book that we discussed in class.

Exams: We will have two in class exams, both given on Fridays.

EXAM 1	Appendix F, G, 5.1—5.7, 5.10	Friday, February 5 th
EXAM 2	Sections 6.1—6.3, 8.1—8.6.	Friday, March 5 th
<u>FINAL EXAM</u>	Cumulative including 8.7 and possibly 6.4, 6.5, 6.6, 6.7 and/or 8.8, 8.9.	

Quizzes: On Fridays, at the beginning of the lab session a quiz will be administered. Each quiz will be worth 10 points and the lowest quiz score will be dropped, when calculating your final grade.

Labs: A problem set will be posted on my webpage by Thursday afternoon <http://www.csub.edu/~srackowski/>. You are required to print it out and bring it to class with you on Friday. Solutions will be due at the beginning of Tuesday's class and anytime after that will be considered late. You are expected to work together on each assignment. One write-up per two people should be handed in. Each laboratory will be worth 20 points.

Homework: We will spend considerable time at the beginning of each lecture working out homework problems. All homework problems will be collected and selected parts of it will be graded.

Late assignments: Late work will be accepted for reduced credit until discussed in class.

Important Dates: 1/27 – Last day to withdraw without a “W” being recorded; 2/27 – Last day to withdraw for a serious and compelling reason, 3/16 – Last day of classes.

Academic Integrity: You are expected to do all assigned work without unauthorized assistance and without giving unauthorized assistance cf.

<http://www.csub.edu/studentconduct/documents/academicintegrity.pdf>

Students with Disabilities: For list of your duties and privileges cf.

<http://www.csub.edu/UnivServices/SSD/index.htm>

Assessment of work: Your final grade is computed using the percentage of points earned during the quarter. In addition, no student receiving 50% or less on the final exam will receive a passing grade.

90% and above	A
80 – 89%	B
70 – 79%	C
60 – 69%	D
below 60%	F