

MATH 2304-01 Calculus III
Winter 2009 MWF 12:00–1:10 p.m. Robinson Hall 119

Instructor: William R. Nico

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Office hours: MW 1:30–3:00 p.m. or by appointment.

Text: J. Stewart, *Calculus, early transcendentals*, 6th edition, Thompson–Brooks/Cole, 2008.

This is the third course in the calculus sequence. It presumes mastery of the material in the previous two courses, MATH 1304 and MATH 1305. Two themes emerge in this course: The extension of ideas and techniques developed for one dimension to two or more dimensions (Chapters 10, 12, (maybe 13), 14, 15) and the study of infinite sequences and series in order to represent functions as power series (chapter 11).

The pacing of the course is planned to be roughly as follows:

- Week 1 : §11.1–§11.4
- Week 2 : §11.4–§11.7
- Week 3 : §11.8–§11.10
- Week 4 : §10.1–§10.4 & midterm on Week 1–3 material
- Week 5 : §12.1–§12.6
- Week 6 : §14.1–§14.4
- Week 7 : §14.5–§14.7
- Week 8 : §14.7, §15.1, §15.2 & midterm on Week 4–7 material
- Week 9 : §15.3–§15.7
- Week 10 : other material (e.g., from Ch. 13 or 16) & general review.

This may be ambitious. Coverage may slow down or speed up as needed, or some sections may be moved around. If there is significant deviation, there will be class announcements and the web version of this handout will be updated in mid-course.

General assignment: You—on your own initiative—should do a *significant* number of the *odd numbered* exercises. Solutions for these are in the text, which should enable you to check your efforts. You are free—even encouraged—to assist each other with these *in groups* when they prove difficult.

However, you will be given regular—usually daily—small (i.e., 3 problem) assignments chosen from the *even numbered* exercises to *write up* and to turn in. These are to be your *own* work and no one else’s! These assignments will be graded at 5 points per problem-set, with a maximum score total of 100 to be counted toward the “homework” part of your grade. [Since there are more than 20 possible assignments being turned in, this maximum means that you can safely miss a number of them. This should ameliorate the “no late homework” policy (below).] The course web site <http://www.mcs.csueastbay.edu/~nico/2304> will have the list of daily assignments.

Late homework will *not* be accepted. Homework is to be turned in at the **beginning** of class on the due date. Homework is to represent *individual* efforts! Any work not your own, e.g., results obtained from reference sources, should receive appropriate bibliographic *citations*. *Plagiarism* will be subject to appropriate penalties, as described in the *academic dishonesty* section of the *University Catalog*.

Grading: The course grade will be computed roughly as follows. (The dates of the midterms are subject to change. Any change will be announced in class.)

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| 1. Written homework (as assigned) | 15% |
| 2. One hour midterm (Friday, January 30) | 25% |
| 3. One hour midterm (Friday, February 27) | 25% |
| 4. Final exam (Monday, March 16, 12:00–1:50 p.m.) | 35% |

Written work: Any written work submitted for the course, *including in-class tests*, must be done in *ink!*

Identification: When taking tests for the course, students should be prepared to display their CSUEB student photo identification cards upon request.

Make-up policy: Make-up tests will be considered only in *unusual* circumstances, and then only if arrangements have been made in *advance*.