

MATH 1810-01 Mathematics for Business and Social Sciences I
Winter 2009 MWF 9:20–10:30 a.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: R. A. Barnett, M. Ziegler, K. Byleen, *College Mathematics for Business, Economics, Life Sciences, and Social Sciences*, 11th ed., Prentice Hall, 2008.

This, the first course in a two-course sequence, is divided into two large components. The first consists of topics from algebra, including review and introduction of elementary functions, equations, and inequalities, with applications to problems of finance and a particular type of optimization problem (“linear programming”). These topics are covered in (parts of) chapters 1–5 of the text. The second large component is an introduction to calculus, which will be covered in (parts of) chapters 10–13.

The pacing of the course—by section of chapter of the text—is planned to be roughly as follows:

- Weeks 1 & 2: §1.1, §1.2, Chapt. 2, Chapt. 3
- Week 3: §4.1, §4.2, §4.3
- Week 4: More §4.3; midterm on material covered through week 3; §5.1.
- Week 5: §5.2, §5.3, §10.1, §10.2.
- Week 6: §10.2, §10.3, §10.4, §10.5.
- Week 7: §10.7, §11.3, §11.4.
- Week 8: §12.1; midterm on material through week 7; §12.2, §12.4.
- Week 9: §12.6, §13.1, §13.2.
- Week 10: Finish the above; other topics of interest; general review.

This may be an ambitious pace! The pace may be adjusted as the quarter progresses, and the order of coverage of topics may be rearranged, too. Changes will be announced in class and posted on the course web page as they occur.

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—probably daily—small 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. [There are more than 20 possible assignments to turn in, which 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/1810> 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. Midterm (Wednesday, January 28) | 25% |
| 3. Midterm (Wednesday, February 25) | 25% |
| 4. Final exam (Monday, March 16, 9:00–10:50 a.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*.