Course Syllabus for Math 1B
TTh 8:10–9:30, P. Vojta, Fall 2009

To be kept for the whole semester

Text: Stewart, *Single Variable Calculus, Early Transcendentals for UC Berkeley,* Brooks/Cole

Prof. Vojta's office: 883 Evans

Prof. Vojta's office hours: TTh 9:40–10:30, W 1:40–2:30

Course web page: `http://math.berkeley.edu/~vojta/1b.html`

General information concerning the syllabus on the reverse side:

(1) You are requested to do the assigned reading *before* each lecture. Note that mathematical texts are not meant to be read like novels: very often you will come across passages that must be read many times before they make sense to you. In fact, you may find yourself stuck on *one sentence* for 30 minutes or longer. This does not happen often, but when it does, don't be unduly alarmed. Being stuck there means there is probably a gap in your understanding. Just be glad you find this out now instead of during an exam.

(2) Never fall behind in this course, either in the reading assignments or in the homework assignments. Mathematics has the peculiar characteristic that each step is built on the preceding one, so the failure to understand one step would likely mean the failure to understand all the steps that follow.

(3) Problem sets get rather heavy at times. This is intentional. Sometimes there is simply no substitute for repetitive drills. Problem (and reading) assignments are subject to change.

(4) Homeworks for a given week will be due in your discussion section, on the Wednesday of the following week. Answers to odd-numbered problems are in the back of the book, detailed solutions are in the optional study guide, and solutions for even-numbered problems will be provided on bSpace.

(5) Quizzes will be given in discussion sessions every Wednesday except for weeks in which there is a midterm.

(6) There will be two midterms, 10/1 and 11/5, held during normal class hours. The rooms will be announced shortly before the midterms.

Things worth knowing:

(1) For enrollment questions (e.g., getting into a section or switching sections), please email Barbara Peavy, `peavy@math.berkeley.edu`.

(2) The course grade will be computed essentially as follows: Midterm I 10%, Midterm II 20%, work in section (e.g., quizzes and homework) 25%, Final Exam 45%.

(3) Do not take this course if you have a conflict in the final exam schedule (check the "exam group numbers" of your courses in the online Schedule of Classes, `http://schedule.berkeley.edu/`). This course is in **exam group 11**: Wednesday, December 16, 12:30-3:30pm.

Week	Dates	Reading	Problems
1	8/26–8/27	7.1	p. 457: 1, 3, 10, 15, 29, 33, 43, 45, 47, 65, 66.
2	8/31–9/3	7.2–7.4	p. 465: 3, 13, 17, 29, 35, 43, 56, 66, 69; p. 472: 1, 5, 7, 17, 22, 27, 31, 41; p. 481: 3, 5, 11, 29, 31, 37, 43, 47, 51, 59.
3	9/8–9/10 (9/7 holiday)	7.5, 7.7, 7.8	p. 488: 19, 31, 41, 45, 69, 81; p. 505: 1, 3, 5, 15, 22, 30, 35, 47; p. 515: 7, 13, 21, 25, 31, 49, 53, 55, 59, 69.
4	9/14–9/17	8.1–8.3	p. 530: 1, 7, 11, 13, 17, 31, 35; p. 537: 1, 5, 11, 13, 25, 33; p. 547: 7, 15, 23, 31, 35, 41, 45.
5	9/21–9/24	11.1–11.3	p. 684: 7, 11, 13, 19, 27, 35, 43, 61, 63, 67, 69, 71; p. 694: 17, 31, 33, 35, 41, 47, 55, 58, 61, 65, 69, 71; p. 703: 3, 7, 15, 23, 27, 33, 39, 42.
6	9/28–10/1	11.4 **MT I: 10/1**	p. 709: 9, 15, 17, 19, 25, 30, 31, 37, 38, 39, 42.
7	10/5–10/8	11.5–11.7	p. 713: 3, 7, 11, 13, 17, 27, 32, 35; p. 719: 4, 5, 8, 13, 19, 21, 23, 29, 32, 33; p. 722: 7, 9, 12, 13, 17, 29, 33, 36, 37, 38.
8	10/12–10/15	11.8, 11.9	p. 727: 3, 7, 14, 15, 17, 28, 29, 35a, 37, 39; p. 733: 5, 8, 11, 15, 17, 23, 33, 35, 37.
9	10/19–10/22	11.10, 11.11	p. 746: 5, 15, 25, 33, 35, 45, 51, 57, 59, 67; p. 755: 5, 7, 9, 17, 19, 25, 27, 31, 33.
10	10/26–10/29	9.1–9.3	p. 571: 1, 3, 5, 7, 9, 11; p. 578: 1, 3, 4, 5, 6, 7, 11, 13, 19, 23; p. 586: 1, 3, 10, 11, 15, 19, 31, 41, 48.
11	11/2–11/5	9.4 **MT II: 11/5**	p. 598: 3, 7, 9, 15, 18.
12	11/9–11/12 (11/11 holiday)	9.5, 9.6	p. 606: 1, 2, 3, 5, 9, 13, 19, 23, 33, 35; p. 612: 1, 3, 5, 7.
13	11/16–11/19	17.1, 17.2	p. 1117: 1, 5, 9, 11, 15, 17, 21, 23, 25, 29, 30; p. 1124: 1, 5, 6, 9, 16, 18, 21, 23, 25.
14	11/23–11/25 (11/26 holiday)	17.3	p. 1132: 3, 5, 9, 10, 11, 13.
15	11/30–12/3	17.4, (review)	p. 1137: 3, 7, 9, 12a.
16	12/7–12/9	(review)	
FINAL EXAM: Wednesday, 16 December, 12:30-3:30pm			