

Summary Syllabus for Math 1A

MW 5:00–6:30, P. Vojta, Fall 2022

To be kept for the whole semester

Text: Stewart, *Single-Variable Calculus: Math 1A/1B (without enhanced webassign)*, 8th edition.

Prof. Vojta's office: 883 Evans

Prof. Vojta's office hours: MW 1:30–3; drop-in (no appointment necessary)

Course web page (full syllabus): <http://math.berkeley.edu/~vojta/1a.html>

General information concerning the weekly schedule 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. ***Catching up is a lot harder than keeping up!***
- (3) Problem sets get rather heavy at times. This is intentional. Sometimes there is simply no substitute for repetitive drills. Homework (and reading) assignments are subject to change.
- (4) Homeworks consist of an online component using a system called WeBWorK, together with some written *supplementary exercises*. The online part for any given week will generally be due by 6am on Wednesday of the following week (so they should be done by Tuesday night). There are exceptions to this—see the full syllabus. The supplementary exercises do not need to be handed in, but should be done before Wednesday of the following week. Answers to even-numbered exercises on the supplementary exercises will be posted on bCourses in pdf format. Although there is nothing preventing you from ignoring the supplementary exercises, you should know that some questions on exams will likely be based on these exercises.
- (5) Quizzes will be given in discussion sessions most weeks.
- (6) There will be two midterms (9/28 and 11/2) held during normal class hours. If exam times violate your religious creed, or if you may not be able to take the exams due to extracurricular activities, you need to inform me about this no later than the second week of classes.

Things worth knowing:

- (1) Enrollment questions (e.g., getting into a discussion section or switching sections) are handled by CalCentral. I have no control over enrollment, so please do not send me email asking to get into this class or any particular discussion section. For further information on enrollment please see <https://math.berkeley.edu/courses/enrollment/enrollment-scheduling>.
- (2) You **must** attend the discussion section that you are registered for.
- (3) The course grade will be computed essentially as follows: Midterm I 15%, Midterm II 20%, work in section (e.g., quizzes and homework) 25%, Final Exam 40%.
- (4) This course is in **exam group 19**: Friday, December 16, 3–6 pm. Do not enroll in this course if you cannot take the final exam at that date and time, whether because of a conflict, too many exams on that day, or any other reason. (For your other courses, check their respective syllabi, or see the Registrar's page <https://registrar.berkeley.edu/scheduling/academic-scheduling/academic-scheduling-final-exam-guide-and-schedules/>.)

Weekly Schedule

Week	Dates	Reading	Supplementary Exercises
1	8/24–8/26	1.1–1.2	p. 19: 1, 2, 9, 10, 79; p. 33: 2, 7.
2	8/29–9/2	1.3–1.5	p. 42: 20, 21, 61, 65; p. 53: 24, 37; p. 66: 29, 76.
3	9/6–9/9 (9/5 is a holiday)	2.1–2.2	p. 92: 1, 2, 10, 52.
4	9/12–9/16	2.3–2.5	p. 102: 6, 37, 40, 45, 46, 60, 62, 65; p. 113: 1, 4, 13, 29, 33, 37; p. 125: 27, 51, 52, 69, 72.
5	9/19–9/23	2.6–2.8	p. 139: 67, 75; p. 151: 59, 60; p. 160: 61.
6	9/26–9/30	3.1, 3.2 Midterm I: 9/28	p. 181: 71; p. 188: 1, 42, 64.
7	10/3–10/7	3.2–3.5	p. 196: 19, 20, 31, 37, 54, 56; p. 204: 24, 59, 93, 96; p. 215: 3, 63, 73, 77.
8	10/10–10/14	3.6–3.10	p. 223: 45, 52, 56.
9	10/17–10/21	3.10, 4.1–4.3	p. 256: 29, 33, 44; p. 283: 77, 80; p. 292: 9, 19, 27, 31; p. 301: 23, 76, 77, 82, 83, 88, 89, 91.
10	10/24–10/28	4.4, 4.5, 4.7	p. 312: 55, 73, 74, 84, 87; p. 322: 43, 61, 70; p. 337: 20, 53, 71.
11	10/31–11/4	4.7, 4.8 Midterm II: 11/2	p. 348: 4, 17, 37.
12	11/7–11/10 (11/11 is a holiday)	4.9, 5.1–5.2	p. 356: 55, 76; p. 375: 19, 24, 26, 28; p. 389: 19, 23, 29, 47, 56, 70, 72.
13	11/14–11/18	5.3, 5.4	p. 399: 5, 79, 83; p. 408: 1, 51, 52, 57, 58.
14	11/21–11/22 (11/23–11/25 are holidays)	5.4, 5.5	p. 418: 87, 91.
15	11/28–12/2	6.1–6.3	p. 435: 35, 48, 57; p. 449: 66, 72; p. 455: 47, 48.
RRR	12/5–12/9	Review	(No more exercises!)
FINAL EXAM: Friday, December 16, 3–6 pm			