

Vanderbilt University, Department of Mathematics, Fall 08

Math 170 – Second-Year Calculus

Section: 2, Time: TR 1:10-2:25, Room: CL 337

Instructor: Simon Foucart, SC 1533, simon.foucart@vanderbilt.edu

Office hours: T 2:30-3:30, W 12:30-1:00, R 9:30-10:15 and 12:15-1:00, or by appointment.

Course web page: www.math.vanderbilt.edu/~foucart/teaching

Text: *Calculus*, J. Stewart, 5th edition.

Grading: Four in-class tests, one final examination, along with eight quizzes/assignments contribute to a total of 700 points. Each test is worth 100 points. The final examination counts for 150 points. The remaining 150 points are accounted for by the quizzes/assignments. In fact, each quiz/assignment is worth 20 points, so that 10 points are available for extra credit. The usual percentage scale will be used for the course, that is

F: 0–59, D: 60–69, C: 70–79, B: 80–89, A: 90-100.

Grades are based on the work shown, not on what was intended or implied. Excessively sloppy, poorly justified and disorganized work, even though displaying the correct answer, cannot be given full credit.

Homework policy: Homework will not be graded. It is, nonetheless, an integral part of the course. Thus, some notions introduced in the exercises may appear on a test. You are encouraged to come and see me during my office hours. I will gladly provide help on particular problems, provided that you genuinely attempted to solve them.

Calculators: You may use them for homework. However, since they will not be allowed during the tests, you are advised to avoid them completely.

Attendance policy: Attendance will not be taken, but is expected. If you miss a class, you are responsible for any announcement made, any material covered, and any additional topic introduced during the class. Office hours will not be used for this purpose.

Make-up policy: Make-up tests will only be given in exceptional circumstances – *excused* absence as defined by the University catalog. In such cases, you must provide a *valid* reason for your absence and must normally notify me in advance. The final examination will be given on Friday, December 12 from 9:00am to 11:00am. No alternative final examination is scheduled.

Accommodation procedure: If a student needs course accommodations due to a disability, special arrangements in case the building must be evacuated, or has emergency medical information that needs to be shared with me, I should be contacted as soon as possible. The Opportunity Development Center (2-4705) provides services for students with disabilities. Specific accommodations can be made for students with either physical disabilities or learning disabilities. Upon receiving appropriate documentation from the student, the Opportunity Development Center will make arrangements with me for the accommodations.

Important dates:

Sep 1: last day to drop or add a course, to register for pass/fail status

Sep 18: first test

Oct 9: second test

Oct 20-21: fall break

Oct 24: last day to withdraw, to change from pass/fail to graded status

Nov 4: third test

Nov 22-30: Thanksgiving holidays

Dec 2: fourth test

Dec 9: last day of class

Dec 12, 9:00–11:00: final examination

Academic honesty: Vanderbilt's Honor Code governs all work subject to credit in this course.

The use of any electronic device is strictly prohibited in the classroom.

Tentative outline:

Date	Reading	Exercises (optional)
Aug 26	Review	
Aug 28	Review	
Sep 2	9.1	1, 3, 6, 7, 12, 13, 19, 31, 35, (38)
Sep 4	9.2, 9.3	9.2: 3, 7, 8, 11, 13, (25); 9.3: 2, 13, 23, 31, 32, 38, (41, 44)
Sep 9	10.1, 10.2	10.1: 2, 5, 10, 11, (14); 10.2: 3–6, 7, 19, 20
Sep 11	10.3	1, 3, 5, 7, 9, 11, 12, 13, 14, 20, 27, 28, 29
Sep 16	Review	
Sep 18	Test 1	
Sep 23	11.1, 11.2	11.1: 3, 7, 9, 14, 15, 23, 24, 28, 39, (36); 11.2: 5, 7, 14, 25, 33, 43, 52
Sep 25	11.3	1, 4, 5, 9, 17, 24, 33, 39, 45, 54, 58, 59, 63, 64
Sep 30	11.4	3, 7, 8, 19, 27, 28, 29, 33, 39, 40, 46, 47, (56)
Oct 2	11.5, 11.6	11.5: 3, 9, 15, 18, 22, 25, 28, 29, 33, 41, 47, (50); 11.6: 3–5, 12–14, (27)
Oct 7	Review	
Oct 9	Test 2	
Oct 14	12.1	2, 5, 10, 11, 19–28, 49, 53, 54–57, 63, 68, (50, 61)
Oct 16	12.2	9, 10, 15–20, 27–32, 35, 43, 44, 49, 62, 63
Oct 23	12.3, 12.4	12.3: 5, 6, 9–17, 21, 25, 28, 29, 39, (37); 12.4: 7–13, 29–32, 38, (46)
Oct 28	12.5, 12.6	12.5: 9–13, 18, 23, 27, 32, (36); 12.6: 3–11, 21–23, (32, 37)
Oct 30	Review	
Nov 4	Test 3	
Nov 6	12.8	7–13, 23–27, 30, 31, 35, (37)
Nov 11	12.9	3–7, 11, 13, 14, 18, 23, 32, 35
Nov 13	12.10	2, 3, 5, 9, 14, 15, 23–27, 54, 55–58, (62)
Nov 18	Review	
Nov 20	Test 4	
Dec 2	12.11, 12.12	12.11: 1–5, 11, 12, 15, 17, (20); 12.12: 25, 31
Dec 4	Review	
Dec 9	Review	