

Text: *University Calculus*, Hass, Weir and Thomas, Pearson (Addison Wesley).

Schedule: The daily schedule and number/dates of tests in your section could be different from that listed below. But all problems listed here from Chapters 10 – 14 are eligible as final exam topics, as is any material (such as parameterizations) from earlier chapters intrinsic to doing these problems.

Daily Work: Do the reading from the sections to be covered before coming to class each day. Your instructor's plans for the class will assume you have done the reading. The exercises listed below represent a minimal assignment and should also be done as the material is covered. In some cases additional exercises may help you to attain sufficient mastery of the material.

Other Assignments: Almost all instructors use items not listed on this syllabus, sometimes as part of their grade scheme, in other cases just to facilitate learning. Your instructor may assign a project or projects, require you to take computer exams, collect homework problems, give quizzes, distribute handouts with supplementary assignments, etc. Again, even if your instructor gives 4 hour exams as listed below, the exams may be on different dates than are listed here.

Calculators: You will be permitted to use any standard calculator not possessing communications capability (note you cannot use something like a calculator built into a cell phone) on the final exam. You will not be allowed to use something like a tablet or notebook computer or equivalent. Your instructor will decide to what extent calculators are allowed on your hour exams and quizzes.

Final Exam: The time for the final exam is 6:00-8:00 pm, Monday, December 15, Room TBA. You are expected to arrange your personal and work schedule to allow you to take the exam at that time. Students with conflicting exam schedules may be allowed to take an alternate final, which is always given after the regularly scheduled final. No student will be allowed to take the final exam early. A picture ID (driver's license or student ID) may be required to take the final exam.

Advanced Placement: If this is the first college mathematics course that you have attempted, then you may be eligible for 10 hours of free credit for Math 106 and Math 107, provided you earn a grade of P, C or better in Math 208 this semester. To be considered for this credit, you should register with the Department of Mathematics, 203 Avery Hall, by Friday, September 26, 2008.

Week	Dates	Sections/Topic	Exercises
1	Aug. 25–29	Introduction to Math 208 10.1–3 Recap 10.4 Cross product 10.5 Lines and planes	10.1 # 6, 11, 15, 16, 27, 37, 45, 49; 10.2 # 43; 10.3 # 5, 13, 29, 30, 33, 35, 43 1,3,7, 11, 15, 18, 20, 21, 27, 30, 31, 33, 37 3, 6, 9, 18, 19, 21–23, 25, 36, 39, 47, 59, 61
2	Sept. 1 Sept. 2–5	Labor Day, no class 10.6 Cylinders & quadric surfaces 12.1 Multivariable functions 12.2 Limits and continuity	1–12,15,19,21,23,25,27,29,31,classify (don't sketch) 33–44 6–9, 11, 13–18, 22, 25, 29, 41, 42 2, 3, 14, 15, 18, 22, 25, 29, 33, 37, 41, 45, 51, 56
Friday, September 5, is the last day to withdraw from the course and not have it appear on your transcript.			
3	Sept. 8–12	12.3 Partial derivatives 12.3 2 nd derivatives & differentiability 12.4 The Chain Rule 12.5 Gradient & directional derivative	2, 3, 5, 7, 11, 12, 16, 17, 25, 27, 32, 34, 40 43, 46, 55, 57, 67, 68, 73, 74 3, 7, 10, 11, 13, 15, 25, 29, 36 4, 6, 7, 10, 13, 16, 17, 19, 22, 31, 32
4	Sept. 15–19	12.5–6 Gradients, tangents & normals 3.10 Differentials & linearization 12.6 Linearizations & differentials Test Review	12.5: 23, 24; 12.6: 1, 4, 11, 16, 17; Handout problems 3, 6, 11, 21, 25–35 odd, 43–51 odd, 55 26, 29, 39, 47, 48, 49, 52, 53; Handout problems
5	Sept. 22–26	Exam 1 4.4 Extrema & the 2 nd derivative test 12.7 Extrema & the 2 nd derivative test 12.7 Absolute extrema	1–33 odd, skip graphing, find extrema, inflections 9, 17–19, 23, 26, 28; Handout problems 31, 34, 36, 39, 47, 51

Week	Dates	Sections/Topic	Exercises
6	Sept. 29–Oct. 3	12.8 Lagrange Multipliers – 2 variables 12.8 Lagrange Multipliers – 3 variables 5.1, 5.6 Definite integrals and area 13.1 Double integrals over rectangles	1, 3–5, 8–11, 13, 16 17–19, 23, 26–28, 37 5.1# 1, 5, 11, 15; 5.6# 47–67 odd, 73, 81, 83 1, 7, 9, 10, 14, 15, 18, 23, 25, 28
7	Oct. 6–10	13.2 Integrals over other 2D regions 13.3 Area and average value 13.4 Polar double integrals Review /catch up on double integrals	1, 5, 8, 13, 15, 17, 19, 25–27, 30, 35, 36, 39, 40, 45, 55 1, 3, 6, 7, 9–11, 13, 15, 17, 18, 20 3, 9, 11, 14, 16, 18, 19, 24, 28, 29; Handout problems
8	Oct. 13–17	Test Review Exam 2 6.1–2 Finding volumes using integrals 13.5 Triple integrals	6.1# 1–21 odd; 6.2# 1–17 odd 3, 6, 9, 10, 14, 22, 27, 29, 33, 34, 36, 37, 41, 43, 44, 47
Friday, October 17, is the last day to change your grade option to or from Pass/No Pass.			
9	Oct. 20–21 Oct. 22–24	Fall break, no class 6.7 Moments and center of mass 13.6 Moments and center of mass 13.7 Cylindrical coordinates	1, 3, 5, 7, 13, 15, 17, 19, 27, 29 1, 3, 4, 11, 19, 23, 30, 31, 33 4, 10–15, 18, 46, 47
10	Oct. 27–31	13.7 Spherical coordinates 13.7 Conversion from rectangular Review /catch-up on triple integrals 3.5, 9.6 Parametric equations	29, 32, 34–38, 40 49, 52, 59, 74, 77; Handout problems 3.5# 81–99 odd; 9.6# 1–11 odd
11	Nov. 3–7	14.1 Line integrals over ds 14.2 Vector fields and work integrals 14.2 Flow, circulation and flux Test Review	1–8, 11–15, 19–21, 27, 30 3, 7, 10, 13, 14, 17, 18, 21, 22 23, 27–29, 35, 38, 41, 43
12	Nov. 10–14	Exam 3 14.3 Testing for & finding potentials 14.3 Potentials & path independence 14.4 Green's Theorem	1–6, 8, 9, 11; Handout problems 1–6 14, 15, 18, 25, 31, 33, 36, 37; Handout problems 7–9 1, 4, 6, 7, 9, 11, 17–19, 22, 24, 26, 29, 31, 34
Friday, November 14, is the last day to withdraw from the course and receive a grade of W.			
13	Nov. 17–21	14.5 Parameterized surfaces & area 14.5–6 Surface area/surface integrals 14.6 & handout Flux integrals 14.7 Curl & Stokes' Theorem	2, 3, 5–9, 12, 13, 15, 17, 20, 22, 23, 34 14.5 # 27, 30, 38, 41, 47–49, 52; 14.6 # 1, 3, 6, 7, 13, 39 15, 18, 20, 21, 27, 29, 33; Handout problems 1, 3, 4, 6, 19, 26
14	Nov. 24–25 Nov. 26–28	14.7 Stokes' Theorem Thanksgiving vacation, no class	8–10, 13, 16, 17, 20–23 (13–18: evaluate using the <u>line</u> integral in Stokes' Theorem. Assume the surface is oriented away from the z -axis)
15	Dec. 1–5	14.8 Divergence Theorem 14.8 Catch-up or unification Test Review Exam 4	5–8, 10, 12, 13, 15, 17, 25
16	Dec. 8–12	Final Exam Review (or catch-up)	

Final Exam: The time for the final exam is 6:00-8:00 pm, Monday, December 15, Room TBA.

Department Grading Appeals Policy: The Department of Mathematics and Statistics does not tolerate discrimination or harassment on the basis of race, gender, religion or sexual orientation. If you believe you have been subject to such discrimination or harassment, in this or any math course, please contact the department. If, for this or any other reason, you believe that your grade was assigned incorrectly or capriciously, appeals should be made to (in order) the instructor, the department chair, the departmental grading appeals committee, and the college grading appeals committee.