

Fall 2009
Math 2263: Multivariable Calculus

Lectures: MWF 10:10–11:00 in Vincent Hall 16.

Discussion sections:

11. TTh 10:10–11:00 in AmundH 116, Eoin O’Hara, TA.
12. TTh 10:10–11:00 in VinH 211. Weiwei Wu, TA.
13. TTh 11:15–12:05 in Vin H 16. Weiwei Wu, TA.
14. TTh 11:15–12:05 in FolH 208. Eoin O’Hara, TA.

Office Hours:

Robert Gulliver: M 3:35–4:25, WF 11:15–12:05 in VinH 452, gulliver@math.umn.edu;
Eoin O’Hara: M 1:25–4:25, T 12:20–1:10 in VinH 331, ohara003@umn.edu;
Weiwei Wu: W 1:25–2:15, F 3:35–5:30 in 550 VinH, wuxxx347@math.umn.edu.

Text: James Stewart, *Calculus: Early Transcendentals*, sixth ed. Thomson Brooks/Cole, Mason, Ohio 2008.

Course web page: www.math.umn.edu/~gulliver/2263/

Homework List

Suggested Homework: due each Tuesday, September 15 – December 15, for class discussion. Except as announced, does not need to be turned in.

September 15: 12.4 (p. 792) #1, 6, 31, 33;

12.5 (p. 802) #3, 7, 11, 15, 17, 23, 25, 37, 59, 65, 69;

12.6 (p. 810) #3, 5, 11, 13, 29, 33, 41, 43, 47;

12 Review Exercises (p. 813) #1, 2, 3, 4, 11, 15, 19, 21, 23, 27, 37.

September 22: 14.1 (p. 865) #9, 16, 27, 30, 37, 59, 61;

14.2 (p. 877) #5, 9, 12, 15, 19, 27, 35;

14.3 (p. 888) #13, 15, 22, 24, 29, 37, 43, 45, 49ab, 57, 69, 72;

14.4 (p. 899) #1, 5, 12, 23, 28, 34.

September 29: 14.5 (p. 907) #1, 4, 9, 12, 21, 25, 28, 31, 39, 53;

14.6 (p. 920) #4, 7, 10, 13, 21, 28, 39, 41, 49, 54.

October 6: 14.7 (p. 930) #1, 6, 11, 16, 30, 37, 40, 43;

14.8 (p. 940) #3, 6, 9, 13, 18.

October 13: 15.1 (p. 958) #2, 5, 11, 12;

15.2 (p. 964) #1, 3, 7, 8, 12, 15, 18, 27, 31.

October 20: 15.3 (p. 972) #3, 7, 12, 14, 15, 19, 20, 27, 32, 43, 46, 55;

15.4 (p. 978) #3, 4, 5, 11, 12, 20, 25.

October 27: 15.5 (p. 988) #3, 6, 14, 23, 28;
15.6 (p. 998) #1, 5, 6, 14, 23;
15.7 (p. 1004) #2, 3, 8, 13, 25.

November 3: 15.8 (p. 1010) #1, 7, 10, 15, 18, 21, 29, 34;
15.9 (p. 1020) #1, 3, 8, 14, 15, 20, 23.

November 10: 16.1 (p. 1032) #1, 6, 11, 12, 13, 14, 21, 29, 30, 31, 32;
16.2 (p. 1043) #1, 5, 6, 13, 19, 22, 34, 39.

November 17: 16.3 (p. 1053) #3, 7, 9, 12, 14, 20, 27–28, 29–32;
16.4 (p. 1060) #1, 7, 9, 12, 18, 19.

November 24: 16.5 (p. 1068) #3, 7, 12, 14, 17, 18, 20, 31, 34;
16.6 (p. 1078) #3, 13–18, 23, 39, 41.

December 1: 16.7 (p. 1091) #4, 5, 8, 15, 21, 22, 25, 40;
16.8 (p. 1097) #1, 3, 6, 9, 13, 16, 17.

December 8: 16.9 (p. 1103) #1, 5, 6, 10, 13, 19, 26, 30;
16 Review Exercises (p. 1107) #6, 10, 16, 19, 25, 33, 36.

December 15, review for final exam: p. 792: #17; p. 802: #27; p. 810: #44; p. 877: #37;
p. 888: #25; p. 899: #13; p. 907: #23; p. 920: #15; p. 930: #35; p. 940: #7; p. 964: #21;
p. 972: #13; p. 978: #15; p. 988: #7; p. 998: #17; p. 1004: #23; p. 1010: #25; p. 1020:
#11; p. 1043: #25; p. 1053: #15; p. 1060: #11; p. 1068: #19; p. 1078: #43; p. 1091: #19;
p. 1097: #5; p. 1103: #7; p. 1107: #23, 34.

Quizzes: 20 points each, best 9 of 10 quizzes, adjusted to reflect your participation in the discussion sections. Problems will be similar to assigned homework problems. Thursdays: September 17; September 24; October 1; October 15; October 22; October 29; November 12; November 19; **Tuesday**, November 24; and December 10. No makeup quizzes.

Midterm Exams: 100 points each. If you have to miss a Midterm, you must let your TA know in advance.

I. Thursday, October 8: Sections 12.4–6, 14.1–6.

II. Thursday, November 5: Sections 14.7–8, 15.1–5.

III. Thursday, December 3: Sections 15.6–9, 16.1–4.

Final Exam: 200 points. Thursday, December 17, 1:30–4:30 PM, room TBA. Sections 12.4–6, 14.1–8, 15.1–9, 16.1–9.

Course Total: 680 points.