

## Fall 2009

### Math 2263: Multivariable Calculus

**Lectures:** MWF 2:30–3:20 in EE/CSi 3-230.

**Discussion sections:** 21. TTh 1:25–2:15 in VinH 211, Eoin O’Hara, TA.

22. TTh 1:25–2:15 in VinH 113. Linlin Su, TA.

23. TTh 2:30–3:20 in VinH 113. Linlin Su, TA.

**Tentative Office Hours:**

Anar Akhmedov: W 3:30–5:25, F 3:30–4:25 in VinH 355, akhmedov@math.umn.edu;

Eoin O’Hara: M 1.30–4.30, T 12.20–1.10 in VinH 9, ohara003@umn.edu;

Linlin Su: Th 9.00–12.20 in VinH 524, suxxx056@math.umn.edu.

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

**Course web page:** [www.math.umn.edu/~akhmedov/M2263](http://www.math.umn.edu/~akhmedov/M2263)

**Homework:** There will be a weekly homework assignments. The homework will normally be due the following week, in discussion section. Each homework worth 20 points. I’ll drop the lowest homework score before determining your final course grade. The due dates for the homework assignments are as follows: Thursdays, September 17, September 24, October 1, October 15, October 22, October 29, November 12, November 19, **Tuesday** November 24 and December 10.

#### Homework List

**September 17: 12.4** (p. 792) #2, 4, 6, 10, 18, 22, 30, 38, 44, 46, 50;

**12.5** (p. 802) #2, 8, 12, 16, 24, 26, 36, 60, 66, 70, 78.

**September 24: 12.6** (p. 810) #4, 6, 8, 14, 18, 21–28, 30, 34, 42, 44, 47;

**14.1** (p. 865) #2, 10, 16, 24, 26, 30, 32, 38, 62, 64;

**14.2** (p. 877) #6, 10, 12, 14, 18, 28, 30, 36, 38, 40;

**14.3** (p. 888) #13, 16, 22, 24, 30, 38, 44, 46, 50, 58, 64, 69, 72, 76.

**October 1: 14.4** (p. 899) #4, 6, 12, 18, 24, 30, 34, 42;

**14.5** (p. 907) #2, 4, 10, 12, 14, 24, 25, 28, 32, 38, 46, 48, 53, 56;

**14.6** (p. 920) #4, 6, 8, 10, 16, 20, 24, 28, 40, 42, 50, 54.

**October 15: 14.7** (p. 930) #2, 6, 8, 12, 16, 20, 30, 34, 37, 40, 43, 44, 46;

**14.8** (p. 940) #4, 6, 8, 12, 14, 18, 46;

**15.1** (p. 958) #2, 5, 12, 18.

**October 22: 15.2** (p. 964) #2, 4, 7, 8, 12, 16, 18, 27, 34;

**15.3** (p. 972) #4, 7, 12, 14, 16, 19, 20, 26, 32, 44, 46, 56.

**October 29: 15.4** (p. 978) #2, 4, 6, 12, 14, 16, 20, 22, 26, 30, 33;

**15.5** (p. 988) #4, 6, 14, 24, 26, 28.

**November 12: 15.6** (p. 998) #2, 6, 10, 14, 18, 23, 38;

**15.7** (p. 1004) #2, 4, 8, 10, 13, 18, 26, 29;

**15.8** (p. 1010) #2, 4, 6, 7, 8, 10, 12, 15, 18, 24, 29, 32, 34;

**15.9** (p. 1020) #2, 6, 8, 12, 14, 15, 20, 22.

**November 19: 16.1** (p. 1032) #2, 4, 6, 11, 12, 13, 14, 22, 29, 30, 31, 32;

**16.2** (p. 1043) #2, 5, 6, 8, 14, 20, 22, 34, 38, 40.

**November 24: 16.3** (p. 1053) #6, 8, 10, 12, 14, 20, 22, 27–28, 29–32;

**16.4** (p. 1060) #2, 4, 8, 10, 12, 18, 19, 21, 24.

**December 10: 16.5** (p. 1068) #2, 8, 10, 12, 18, 20, 24, 26, 28, 30, 34;

**16.6** (p. 1078) #2, 4, 13–18, 24, 26, 38, 42, 44;

**16.7** (p. 1091) #4, 6, 8, 15, 18, 22, 24, 37, 40;

**16.8** (p. 1097) #1, 2, 4, 6, 10, 14, 16, 17;

**16.9** (p. 1103) #2, 4, 6, 10, 13, 20, 26, 30.

**December 15:** p. 792: #17; p. 802: #27; p. 810: #43; 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, 33.

**Midterm Exams:** 100 points each.

*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.