

MATH2300 (Calculus 2) Spring 2009

Instructors: Carla Farsi (czar), Ira Becker, Sooran Kang, Amy Keighley, Eunhyea Kim, Matthew Moore, Joshua Sanders.

Teaching Assistants: Jacob Harper, Benjamin Katz-Moses, Benjamin Robinson.

In addition to the instructor office hours below, the TAs will be available to assist you in the help lab in MATH 175 -Jacob Harper (Mo 12-1 and Th 11-1), Sooran Kang (Tue 2-4), Benjamin Katz-Moses (Wd 8-9 and Th 4-6), Amy Keighley (Wd 4-6), Eunhyea Kim (Tue 10-12), Matthew Moore (Tue 9-11), Benjamin Robinson (Wd 11-12, Th 8-9, F 12-1), Joshua Sanders (Mo 11-12 and Fr 8-9).

Sections

Section 1:

Instructor: Matthew Moore
Teaching Assistant: Jacob Harper
Venue: MTWRF 8, MUEN E432
Office: MATH 360
Email: Matthew.d.moore [AT] colorado.edu
Office Hours: Tue 12-2

Section 2:

Instructor: Eunhyea Kim
Teaching Assistant: Jacob Harper
Venue: MTWRF 9, MUEN E432
Office: MATH 210
Email: eun.kim [AT] colorado.edu
Office Hours: Mo and Wd 10

Section 3:

Instructor: Joshua Sanders
Teaching Assistant: Jacob Harper
Venue: MTWRF 10, MUEN E432
Office: MATH 342
Email: Joshua.Sanders [AT] colorado.edu
Office Hours: W and F 11.

Section 4:

Instructor: Carla Farsi
Teaching Assistant: Benjamin Katz-Moses
Venue: MTWRF 11, MUEN E432
Office: MATH 229
Email:
Office Hours: Mo, Wd 2 and by appointment

Section 5:

Instructor: Carla Farsi
Teaching Assistant: Benjamin Katz-Moses
Venue: MTWRF 12, MUEN E432
Office: MATH 229
Email: farsi [AT] euclid.colorado.edu
Office Hours: Mo, Wd 2 and by appointment

Section 6:

Instructor: Ira Becker
Teaching Assistant: Benjamin Katz-Moses
Venue: MTWRF 1pm, MUEN E432
Office: MATH 140
Email: sibecker [AT] yahoo.com

Office Hours: Tue 12 and Fr 4

Section 7:

Instructor: Sooran Kang
Teaching Assistant: Benjamin Robinson
Venue: MTWRF 1pm, MUEN E123
Office: MATH 201
Email: sooran [AT] colorado.edu
Office Hours: Wd 11 and Fr 2

Section 8:

Instructor: Amy Keighley
Teaching Assistant: Benjamin Robinson
Venue: MTWRF 2pm, MUEN E432
Office: MATH 366
Email: Amy.keighley [AT] colorado.edu
Office Hours: Mo 12 and Wd 3

Text

Calculus, early transcendentals, single variable, 8th ed (by Howard Anton, Irl Bivens and Stephen Davis)

Prerequisites

Calculus 1

Course Contents

Continuation of MATH 1300. Topics include transcendental functions, methods of integration, polar coordinates, conic sections, improper integrals, and infinite series. Prereq., Calculus 1. Credit not granted for this course and MATH 1320 or APPM 1360. We intend to cover sections 1.8, 6.9, 7.4, 7.9, 8.2-8.6, 8.8, 9.1, 9.3, 9.4, chapter 10, and sections 11.1-11.3 of the book.

Grading

Your grade will be computed from:

- * Homeworks/Quizzes/Presentations: 150 points;
- * Three Midterms: 300 (= 3 times 100) points;
- * Final Exam: 200 points.

Instructors may slightly modify the above scheme to allow credit for quizzes and presentations, check with yours for details.

Tests

The three midterms will last 90 minutes each and will start at 5:15 pm on Wednesday, February 4, Wednesday March 4, and Wednesday, April 8 in the rooms listed below. The first Midterm will cover Sections 1.8, 6.9, 7.4, 7.9, and 8.2. The second midterm Sections 8.3, 8.4, 8.5, 8.8, 9.1, and 9.4. The third midterm will cover sections 10.1, 10.2, 10.3, 10.4, 10.5, 10.6, and 10.7.

Midterm and Final Exam Rooms

Instructors: Moore (001), Kim(002), Sanders (003), Farsi(004 and 005). Room: DUAN G1B30

Instructors: Becker (006), Kang (007), Keighley (008).
Room: MCOL W100

Practice Problems for Midterm 1:

- 1.8 # 3, 5
- 6.9 # 15, 17, 25
- 7.4 # 6, 7, 10
- 7.9 # 14, 19, 37, 46

8.2 # 19, 20, 32, 37, 40

Practice Problems for Midterm 2:

8.3 # 9, 11, 19, 29

8.4 # 4, 16, 18, 19, 41

8.5 # 18, 20, 27, 31

8.8 # 10, 16, 25, 26

9.1 # 9, 11, 21, 22, 28, 29

9.4 # 6, 9, 13, 17, 21

Practice Problems for Midterm 3:

10.1 # 9, 10, 18

10.2 # 3, 5, 10, 11, 17

10.3 # 1,2,3,4,7,8,12,13,14

10.4 # 2,4,12, 14, 25, 26

10.5 # 11,1,5,26,27,28,30,31

10.6 # 2,3,4,8,15,17

10.7 # 10,11,12,16,20,25,26

Practice Problems for the Final:

6.9 # 16, 17, 20, 21

7.4 # 9, 12, 13, 15, 16

7.9 # 9, 11, 13, 33, 35

8.2 # 11, 21, 27

8.3 # 5, 9, 13, 17, 25

8.4 # 33, 35, 37, 38, 42

8.5 # 9, 10, 11, 18

8.8 # 7, 8, 15, 17, 20

9.1 # 13, 14, 29, 31, 41

9.4 # 17, 19, 21

10.3 # 5, 6, 8, 9, 14 10.4 # 15, 24, 25

10.5 # 34, 36, 38, 42, 43

10.6 # 3, 4, 5, 22, 23, 29

10.7 # 13, 15, 23, 24

10.8 # 17, 29, 32, 34, 43

10.10 # 5, 6, 7, 23, 24, 25, 26, 33

11.1 # 2, 4, 9, 21, 25, 26, 28, 37, 47, 48, 49, 50

11.2 # 5, 7, 10, 13, 24, 25, 26, 41, 42

The final examination, which is cumulative, will be on Monday, May 4 from 10:30am to 1:00 pm, in the rooms listed above. It will cover all the course material except for 11.3.

Bring your CU Student ID to all of your tests.

No calculators will be permitted in the quizzes or examinations. Half a page Cheat Sheet allowed.

Homework

Each homework will be worth 10 points. There will usually be three weekly homework assignments, on Monday, Wednesday and Friday, and these will usually be due at the beginning of class on the following Wednesday, Friday or Tuesday, respectively.

No late homeworks will be accepted. Individual instructors will announce in class the number of dropped homework grades at the end of the semester.

Missed Exams

If you know that you are going to miss a mid-term exam, please notify your instructor at least two weeks in advance. There are no midterm make-ups. The deadline for students who have three or more final exams on the same day to make arrangements to change their final exam schedule is February 20, 2009.

Students With Disabilities

If you qualify for accommodations because of a disability, please submit to your instructor a letter from Disability Services in a timely manner so that your needs may be addressed. Disability Services determines accommodations based on documented disabilities. Contact: 303-492-8671, Willard 322, and www.Colorado.EDU/disabilityservices.

Disability Services' letters for students with disabilities indicate legally mandated reasonable accommodations. The syllabus statements and answers to Frequently Asked Questions can be found at www.colorado.edu/disabilityservices

Religious Obligations

Campus policy regarding religious observances requires that faculty make every effort to reasonably and fairly deal with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. In this class, you should notify your instructor of any conflict at least two weeks in advance. See full details at http://www.colorado.edu/policies/fac_relig.html.

Student Classroom and Course-Related Behavior

Students and faculty each have responsibility for maintaining an appropriate learning environment. Students who fail to adhere to such behavioral standards may be subject to discipline. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, gender variance, and nationalities. Class rosters are provided to the instructor with the student's legal name. Your instructor will gladly honor your request to address you by an alternate name or gender pronoun. Please advise your instructor of this preference early in the semester so that appropriate changes may be made to the records. Please, no open yawning or sleeping in class! See policies at <http://www.colorado.edu/policies/classbehavior.html> and at http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student_code

Honor Code

All students of the University of Colorado at Boulder are responsible for knowing and adhering to the academic integrity policy of this institution. Violations of this policy may include: cheating, plagiarism, aid of academic dishonesty, fabrication, lying, bribery, and threatening behavior. All incidents of academic misconduct shall be reported to the Honor Code Council (honor@colorado.edu; 303-735-2273). Students who are found to be in violation of the academic integrity policy will be subject to both academic sanctions from the faculty member and non-academic sanctions (including but not limited to university probation, suspension, or expulsion). Other information on the Honor Code can be found at <http://www.colorado.edu/policies/honor.html> and at <http://www.colorado.edu/academics/honorcode/>

Statement on Discrimination and Harassment

The University of Colorado at Boulder policy on Discrimination and Harassment (<http://www.colorado.edu/policies/discrimination.html>), the University of Colorado policy on Sexual Harassment and the University of Colorado policy on Amorous Relationships applies to all students, staff and faculty. Any student, staff or faculty member who believes s/he has been the subject of discrimination

or harassment based upon race, color, national origin, sex, age, disability, religion, sexual orientation, or veteran status should contact the Office of Discrimination and Harassment (ODH) at 303-492-2127 or the Office of Judicial Affairs at 303-492-5550. Information about the ODH, the above referenced policies and the campus resources available to assist individuals regarding discrimination or harassment can be obtained at <http://www.colorado.edu/odh>.

Schedule of Classes and Homework Assignments

Homework assigned on Monday, Wednesday and Friday will be due at the beginning of class on the following Wednesday, Friday or Tuesday, respectively.

M/Tu/W/F are the regular classes, and Th is for TA's recitation sessions. Individual instructors may slightly modify the schedule below.

*** January

12 (M): Introduction to the course
13 (Tu): Section 6.9/ Assignment 6.9: 13, 15, 17, 20 (a)-due on Friday
14 (W): Section 6.9/ Assignment 6.9: 20 (b), 21, 23, 24, 25
16 (F): Section 7.4/ Assignment 1.8: 3, 6, 10/ 7.4: 5, 7, 8

19 (M): No class (MLK Holiday)
20 (Tu): Recap/Catch-up/Pre-start/ Presentations
21 (W): Section 7.4/ Assignment 7.4: 10, 11, 14
23 (F): Section 7.9/ Assignment 7.9: 6, 11, 14, 17, 19, 24, 31, 34,
38, 39, 43, 44, 46, 53

26 (M): Section 8.2/ Assignment 8.2: 1, 4, 6, 8, 10, 11, 14, 18, 20,
24, 29, 30, 32, 33
27 (Tu): Recap/Catch-up/Pre-start/Presentations
28 (W): Section 8.2/ Assignment 8.2: 38, 41(a), 43, 44, 45, 46, 50,
55, 58, 60
30 (F): Section 8.3/ Assignment 8.3: 1, 4, 8, 10, 12, 13, 15

***February

2 (M): Section 8.3/ Assignment 8.3: 18, 24, 28, 30, 37, 41, 44, 45
3 (Tu): Recap/Catch-up/Pre-start/Presentations/Exam review
4 (W): Section 8.4/ Assignment 8.4: 2, 4, 6, 8, 9, 16, 17, 19
6 (F): Sections 8.4/ Assignment 8.4: 21, 24, 33, 35, 43

9 (M): Section 8.5/ Assignment 8.5: 2, 3, 6, 8, 10, 11, 15, 18, 19
10 (Tu): Recap/Catch-up/Pre-start/Presentations
11 (W): Section 8.5 & 8.8/ Assignment 8.5: 21, 29 & 8.8: 3, 4, 5, 7,
9, 10, 13, 16, 17, 19, 22
13 (F): Section 8.8/ Assignments 8.8: 24, 25, 26, 29, 33, 40, 41, 44

16 (M): Section 9.1/ Assignment 9.1: 3, 4, 9, 10, 11, 12, 13, 14, 25
17 (Tu): Recap/Catch-up/Pre-start/Presentations

18 (W): Section 9.1/ Assignment 9.1: 16, 17, 21, 22, 27, 28, 29, 31,
32, 41, 47, 48(a)
20 (F): Section 9.4/ Assignment 9.4: 1, 3, 6, 10, 12

23 (M): Section 9.4/ Assignment 9.4: 8, 16, 17, 18, 19, 20, 21, 23,
24, 28, 30
24 (Tu): Recap/Catch-up/Pre-start/Presentations
25 (W): Section 10.1/ Assignment 10.1: 1, 3, 6, 7, 9, 10, 14, 18, 20,
23, 24, 26, 27, 28, 29, 30, 38, 41, 42, 47
27 (F): Section 10.2/ Assignment 10.2: 1, 3, 6, 7, 9, 10, 11, 15,
18,19, 22, 23

March

2 (M): Section 10.3/ Assignment 10.3: 2, 3, 7, 8, 11, 14, 18
3 (Tu): Recap/Catch-up/Pre-start/Presentations/Exam Review
4 (W): Section 10.3/ Assignment 10.3: 19, 22, 24, 25(a), 27, 28, 31,
32, 33
6 (F): Section 10.4/ Assignment 10.4: 1, 4, 5, 8, 9, 12, 14

9 (M): Section 10.4/ Assignments 10.4: 17, 19, 20, 22, 24, 25, 29
10 (Tu): Recap/Catch-up/Pre-start/Presentations
11 (W): Section 10.5/ Assignment 10.5: 2, 7, 8, 11, 19, 20
13 (F): Section 10.5/ Assignment 10.5: 24, 27, 28, 32, 34, 41, 42, 43

16 (M): Section 10.6/ Assignment 10.6: 2, 3, 6, 8, 12, 15, 17
17 (Tu): Recap/Catch-up/Pre-start/Presentations
18 (W): Section 10.6/ Assignment 10.6: 22, 25, 32, 38, 40, 49
20 (F): Recap/Catch-up/Pre-start/Presentations

SPRING BREAK March 23-27

April

[March 30] (M): Section 10.7/ Assignment 10.7: 9, 11, 14, 16
[March 31] (Tu): Recap/Catch-up/Pre-start/Presentations
1 (W): Section 10.7/ Assignment 10.7: 19, 20, 24, 25, 26, 31
3 (F): Section 10.8/ Assignment 10.8: 4, 7, 10, 14, 17, 19, 21, 24

6 (M): Section 10.8/ Assignment 10.8: 25, 29, 31, 32, 34, 36, 37, 40,
44, 47, 48
7 (Tu): Catch-up/Pre-start/Presentations/Exam Review
8 (W): Section 10.9/ Assignment 10.9: 2, 4, 6, 8
10 (F): Section 10.9/ Assignment 10.9: 9, 12, 17, 18

13 (M): Section 10.10/ Assignment 10.10: 1, 2, 3, 6, 9, 11, 12, 13, 15
14 (Tu): Recap/Catch-up/Pre-start/Presentations
15 (W): Section 10.10/ Assignment 10.10: 17, 20, 21, 23, 27, 29, 32

17 (F): Section 11.1/ Assignment 11.1: 2, 4, 5, 7, 10, 11, 17, 21, 22,
23, 24

20 (M): Section 11.1/Assignments 11.1: 26, 27, 28, 32, 36, 40, 44
21 (Tu): Recap/Catch-up/Pre-start/Presentations
22 (W): Sections 11.2/ Assignment 11.2: 6, 8, 9, 12, 14, 16
24 (F): Section 11.2/ Assignment 11.2: 22, 25, 27, 30, 34, 40,
41,43

27 (M): Section 11.3/ Assignment 11.3: 1, 3, 6, 8, 9
28 (Tu): Recap/Catch-up/Pre-start/Presentations/Final Review
29 (W): Section 11.3/ Assignment 11.3: 10, 12, 13, 18, 20
[May 1] (F): Final Review
