

MATH F253X

FALL, 2018

Instructor: Marty Getz Email: mpgetz@alaska.edu

Office: Chapman 107 Phone: 474-7273

Office Hours: Mon..... 3:30—4:30
 Tues..... 5:00—6:00
 Wed..... 3:30—4:30
 Fri..... 3:30—4:30
 Other times by appointment.

Text: *Multivariable Calculus*, Eighth Edition, by James Stewart.

Topics covered in this course: vectors and their applications in 3-space, vector functions, partial derivatives, multiple integration and its applications, and topics in vector calculus.

Math 253 consists of selected sections from Chapters 12, 13, 14, 15, and 16. There will be a quiz or a midterm exam each Friday during the semester. The three midterms are scheduled for Sept. 28, Oct. 26, and Nov. 28 or 30. The final will be given Monday, Dec. 10, 3:15—5:15, **and at no other time**.

Homework will be assigned at every class meeting. Homework will be collected each Friday. The weekly quiz will reflect the homework due that day.

GRADING POLICY

Your grade for the course will be determined by:

Weekly Quizzes.....	30%
Midterm Exams.....	40%
Homework.....	10%
Final Exam.....	20%

The grading scale is

A	90-100
B	80-90
C	70-80
D	60-70
F	below 60

IF YOU MISS A QUIZ OR AN EXAM

No makeup test will be offered. Your grade will be zero for that quiz or exam. In the case of unavoidable exigencies, I will expect to be notified promptly and will expect verification.

YOUR GRADE IN MATH 253

The scores on your weekly quizzes give you immediate feedback on how you are doing in this course, and are a good indicator of the grade you can expect to receive at the end of the course. The last day for withdrawal is Friday, Nov. 2. By that time you will have taken **six** quizzes and two midterm exams—about half the total points for the course. If you remain in the class beyond this date, you are committed to finishing the course.

MATH DEPARTMENT POLICY ON THE “INCOMPLETE” GRADE

It is expected that the “I” grade will be used only infrequently, and then to indicate that a student has satisfactorily completed (with a “C” or better) the majority of the work in a course but for personal reasons beyond his or her control has not been able to complete the course during the regular semester. Normally an incomplete grade will be assigned only when the student has been in the class until at least the last three weeks of the semester or session. When the incomplete grade is given the instructor will include a statement of the work required of the student in order for the course to be completed within one year.

SUPPORT SERVICES

There are many opportunities for students to obtain extra help with their math classes. There is a free Math Lab located in Chapman 305 staffed by faculty and math graduate students. Student Support Services offers free tutoring (in many subjects) to students that qualify for their program. ASUAF offers private tutoring for a small fee (based on student income). In addition to the above services, students are always welcome to stop by during my office hours (or make an appointment) to ask questions.

DISABILITY SERVICES

The Office of Disability Services implements the Americans with Disabilities Act (ADA), and insures that UAF students have equal access to the campus and course materials. I will work with the Office of Disability Services (208 Whitaker, 474-5655) to provide reasonable accommodation to students with disabilities. Please inform me during the first week of the semester of your status.

HOMEWORK (tentative)

- 12.1** 2, 7, 8, 9, 12, 15, 17, 19, 31, 32, 35, 38, 39
12.2 5, 7, 8, 9, 13, 17, 21, 25, 32, 41
12.3 4, 7, 11, 15, 19, 23, 26, 27, 33, 37, 39, 43, 49, 53
12.4 3, 7, 13, 14, 15, 19, 23—26 all, 33, 37, 39
12.5 7, 10, 13, 15, 17, 19, 21, 24, 27, 30, 31, 37, 41, 45, 51, 54, 57, 63, 69, 71, 73, 75, 78
12.6 3, 5, 7, 9, 12, 19, 21—28 all, 32, 37, 43, 45
- 13.1** 1, 4, 5, 11, 15, 18, 21—26 all, 27, 32, 45, 49
13.2 3, 7, 10, 15, 16, 19, 21, 25, 31, 33, 37, 41
13.3 3, 6, 11, 17, 18, 19, 22, 25, 27, 30, 47, 49, 55
13.4 3, 5, 11, 14, 15, 19, 25, 39, 41, 45
- 14.1** 5, 9, 15, 21, 27, 30, 31, 32, 41, 45, 49, 61—66 all, 68, 71, 72
14.2 7, 9, 13, 17, 21, 26, 29, 33, 35, 39
14.3 5, 7, 10, 11, 15, 20, 23, 28, 29, 43, 47, 52, 53, 60, 65, 69, 71, 96
14.4 1, 4, 5, 11, 15, 21, 25, 28, 31
14.5 2, 5, 7, 11, 13, 21, 25, 29, 31, 33, 35, 39, 45
14.6 1, 4, 5, 7, 9, 11, 14, 17, 23, 25, 26, 29, 31, 41, 43, 45, 50, 56
14.7 1, 3, 5, 13, 14, 15, 17, 31, 33, 43, 49
14.8 1, 3, 8, 9, 11, 15, 17, 23, 33
- 15.1** 11, 15, 27, 29, 39, 41, 47
15.2 5, 7, 16, 21, 25, 27, 35, 49, 55, 58
15.3 8, 11, 13, 15, 20, 23, 29, 36, 39
15.4 3, 5, 9, 11, 12, 15, 16* *find mass only.
15.5 3, 5, 7, 10, 24
15.6 5, 7, 9, 13, 18, 20, 27, 33, 35, 41
15.7 1, 3, 5, 6, 7, 8, 9, 15, 17, 21, 28*, 29 *set up integral only.
15.8 1, 4, 7, 8, 10, 17, 20, 21, 25, 30, 41
15.9 TBA
- 16.1** 1, 6, 9, 11-18 all, 23, 25, 29-32 all
16.2 1, 3, 6, 7, 12, 15, 17, 21, 33, 39, 41
16.3 1, 3, 6, 7, 10, 11, 15, 17, 20, 23, 25
16.4 3, 7, 8, 11, 12, 17, 18
16.5 3, 4, 7, 11, 13, 15, 20, 21
16.6 2, 3, 4, 13-18 all, 19, 21, 33, 35, 39, 45, 49
16.7 TBA