

Instructor: Dr. Talitha Washington
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Required Texts: *Calculus: Early Transcendentals*, 5th Ed., Stewart
Prerequisite: Grade of C- or better in Math 222 or equivalent

Course Description: Covers vectors and analytic geometry in space, vector-valued functions, functions of several variables and their derivatives, multiple integration, line and surface integrals, and analysis of vector fields.

Course Learning Objectives: Math 323 is the third course in a three-course sequence of elementary calculus and analytic geometry. We will be covering most of chapters 12–16 in the text. As a student in this course, you are expected to acquire not only computational facility with the topics introduced, but also a basic understanding of the theory involved and an enlarged understanding of the need for precise language.

Methods of Instruction: Typical class periods will include a discussion of homework problems and an introduction of new material, although not always in that order. You are expected to read the text and complete all assigned homework. The computer algebra system DERIVE will be used for classroom investigations and daily homework.

Grading: The weights in determining your final grade are as follows:

- Five Tests – 15% each
- Comprehensive Final Exam – 25%

The lowest test score will be replaced by the grade on the final if your final exam score is higher than the lowest score. The course grade may be given on a 90-80-70-60. Individual tests are not curved. Other factors which may (positively) affect your course grade are: the quality of your final exam, attendance, and your interest in the course.

Course requirements and policies:

a. Calculators: You may use a graphing calculator on all exams. If you don't already have one, consider purchasing a TI-83+ or TI-84+. Calculators with symbolic algebra capability (e.g. TI-89 or TI-92) will not be allowed during exams or quizzes.

b. Attendance: You are expected to attend class on time every day. However, if you miss a day, it is up to you (not me, or your classmates) to catch up and learn what you have missed.

c. Homework: These will be assigned daily. Suggested practice problems are attached to this syllabus; these problems are for your practice and will not be graded, HOWEVER, you should do all these homework problems and are responsible for knowing how to work them. Many questions on tests and final exam will be strikingly similar to those given in the homework.

d. Make-ups: Make-up tests/exams will be given only in extreme circumstances that are documented university approved excused absences, and only if I am aware of the circumstances prior to the exam. In particular, make-ups will never be given to accommodate travel plans.

e. Honor Code: It is expected that students are familiar with and will comply with the terms of the University's Academic Honor Code. Collaboration on homework is allowed and encouraged, but giving or receiving help of any kind on tests, exams and quizzes is strictly prohibited.

f. Accessibility: Please let me know immediately if you have a learning or physical disability requiring accommodation. For more information, contact the Office of Counseling and Health Education at 488-2663.

g. Advice from a UE student:

- Try homework before asking for help
- Read book before class
- Be active in class
- Devote more time to math
- Seek better understanding
- Prepare for tests other than the night before
- Question why things are done a certain way
- Correct all old tests

Homework

Section	Exercises
12.1	1, 3, 5, 7, 9, 11, 13, 15, 23, 25, 27, 29, 31, 33
12.2	1, 3, 5, 7, 11, 13, 15, 17, 19, 23, 25, 27, 29, 37, 39
12.3	1, 3, 5, 7, 9, 11, 15, 19, 23, 25, 29, 31, 35, 39, 43, 47, 51
12.4	1, 3, 7, 9, 11, 13, 15, 23, 25, 29, 31, 41
12.5	1, 3, 5, 7, 9, 11, 17, 19, 23, 25, 27, 31, 35, 39, 45, 51, 53, 65, 67
12.6	3, 7, 11, 21-28
12.7	3, 7, 9, 15, 19, 23, 27, 31, 35, 36, 37, 39, 49, 53, 55
13.1	1, 5, 7, 9, 11, 17, 19-24, 33, 35
13.2	3, 7, 9, 13, 15, 17, 19, 23, 25, 33, 37, 45
13.3	1, 3, 9, 11, 13, 15, 19, 39, 41
13.4	3, 7, 9, 13, 15, 19, 31, 33
14.1	7, 9, 11, 13, 17, 19, 21, 23, 25, 30, 37, 41, 59 -62
14.2	5, 7, 13, 17, 27, 31
14.3	13, 15, 17, 23, 27, 35, 41, 45, 47, 51, 53, 57, 77
14.4	1, 3, 5, 11, 17, 23, 27, 29, 35
14.5	1, 5, 7, 9, 11, 17, 21, 23, 35
14.6	5, 7, 9, 11, 15, 23, 33, 39, 41
14.7	5, 7, 11, 27, 29
14.8	3, 5, 9, 11, 15, 23
15.1	1, 11, 13
15.2	3, 5, 9, 13, 17, 21, 23, 33
15.3	5, 7, 11, 13, 17, 21, 23, 37, 41, 43
15.4	7, 9, 13, 17, 19, 21, 25, 29
15.6	1, 3, 5, 9
15.7	3, 5, 7, 9, 13, 17
15.8	3, 5, 7, 11, 17, 19, 33, 35
16.1	1, 3, 11-14, 21
16.2	1, 3, 7, 11, 15, 19, 21
16.3	3, 5, 9, 13, 15, 19
16.4	3, 7, 9, 11, 15

Schedule

Week #	Monday	Tuesday	Thursday	Friday
1			8/24/06 Intro, 12.1	8/25/06 12.1
2	8/28/06 12.2	8/29/06 12.3	8/31/06 12.3, 12.4	9/1/06 12.4, 12.5
3	9/4/06 12.5	9/5/06 Review	9/7/06 Test 1	9/8/06 12.6
4	9/11/06 12.6, 12.7	9/12/06 12.7	9/14/06 13.1	9/15/06 13.1, 13.2
5	9/18/06 13.2	9/19/06 13.3, 13.4	9/21/06 13.4	9/22/06 Review
6	9/25/06 Test 2	9/26/06 14.1	9/28/06 14.1, 14.2	9/29/06 14.2
7	10/2/06 14.3	10/3/06 14.3, 14.4	10/5/06 14.4	10/6/06 14.5
8	10/9/06 Fall Break	10/10/06 Fall Break	10/12/06 14.5, 14.6	10/13/06 14.6
9	10/16/06 Review	10/17/06 Test 3	10/19/06 14.7	10/20/06 14.7, 14.8
10	10/23/06 14.8	10/24/06 15.1	10/26/06 15.1, 15.2	10/27/06 15.2
11	10/30/06 15.3	10/31/06 15.3, 15.4	11/2/06 15.4	11/3/06 Review
12	11/6/06 Test 4	11/7/06 15.6	11/9/06 15.6, 15.7	11/10/06 15.7
13	11/13/06 15.7, 15.8	11/14/06 15.8	11/16/06 16.1	11/17/06 16.2
14	11/20/06 16.2, 16.3	11/21/06 16.3	11/23/06 Thanksgiving Break	11/24/06 Thanksgiving Break
15	11/27/06 Review	11/28/06 Test 5	11/30/06 16.4	12/1/06 16.4, Review
16	12/4/06 Review	12/5/06 Review		

Please note that this schedule may vary according to our progress in class.