

Math 113–002 (Analytic Geometry and Calculus I)
Fall 2012

Instructor: David Walnut

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Course web page: Linked from <http://math.gmu.edu/coursehomepages.htm>.

Office hours: MW 3:30–5:00pm and by appointment.

Text: Briggs and Cochran, *Calculus – Early Transcendentals* (2011)

Topics: The course will cover portions of Chapters 1–5 in the text. Exact sections covered are indicated in the Homework Exercises.

General Comments:

The prerequisite for this course is a grade of C or better in Math 105 or passing the Math Placement Test. If you have not met the formal prerequisites for the course **you cannot stay in the course and you will be dropped**. Information on the Math Placement Test is available at http://math.gmu.edu/placement_test.htm.

You are expected to be familiar with the material in Sections 1.1–1.4 in the text. If this material seems especially difficult or unfamiliar to you, you should consider taking Math 105 (Precalculus) before taking Math 113, **even if you have passed the Placement Test**.

The last day to drop this course without receiving an F is Friday, September 28. You will receive several quiz grades and your grade on the first exam before that date. This grade should be a strong indicator of how well you will do in the course. Use it to decide whether to stay or drop. If you are undecided about what to do you should talk with me about it before deciding.

The course web page contains announcements and useful information for students in this course. Solutions to quizzes, exams, all handouts, and this syllabus will be made available in downloadable form. **You are responsible for checking the web page periodically so that you will not miss important information.**

A considerable amount of help is available to you. Your primary sources of help are: (1) the Mathematics Tutoring Center (<http://math.gmu.edu/tutorcenter.htm>), (2) your GTA Rajitha Siriwardana (rsiriwar@masonlive.gmu.edu), and (3) my office hours (see above). I also strongly encourage you to form study groups and to work together in order to better understand the material.

Grading:

Homework. Included with this syllabus is a list of homework exercises for the course. Homework will not be graded, however, it is **vitaly important** that you do the homework exercises in a timely fashion in order to perform well on the exams and quizzes. The assigned problems are representative of the test questions.

Quizzes. A short quiz (10–15 minutes) will be given each Tuesday in your recitation section. The best 10 of your quiz scores will be counted. Your total quiz grade will count as 15% of your final grade. **No make-up quizzes will be given under any circumstances whatsoever. Do not even ask.**

Exams. Exams will be given on Wednesday, September 26, Wednesday, October 31 and Wednesday, November 28. Each exam will take approximately 50 minutes, and in the remaining class time we will cover new material. Each exam will count for 20% of your final grade. Makeup exams will not be given except in cases of extreme hardship and then only when the student has contacted me **in advance. If I am not notified in advance, no makeup exam will be given.**

Final Exam. There will be a cumulative final exam given on Wednesday, December 12, 2012, 1:30pm–4:15pm in the same room where we have class. The final exam will count for 25% of your final grade.

Grading Scale (there will be no curve):

A+:	99 +;	A:	92 - 98;	A-:	90 - 91;
B+:	88 - 89;	B:	82 - 87;	B-:	80 - 81;
C+:	78 - 79;	C:	72 - 77;	C-:	70 - 71;
		D:	60 - 69;		
		F:	0 - 59.		

Homework Exercises

Section	Exercises
1.1	1-10, 11, 12, 13, 15, 21, 23, 25, 27, 29, 31, 33, 45, 55
1.2	5-10, 11, 12, 13, 15, 17, 19, 30, 56
1.3	1-10, 11, 13, 15, 17, 18, 20, 23, 25, 27, 29, 31, 32, 33-36, 41, 43, 45, 60, 67
1.4	1-14, 15, 16, 17, 35, 36, 37, 41-44, 74, 75
2.1	1-6, 7, 11
2.2	1-6, 7, 10, 19, 24
2.3	1-10, 11, 17, 21, 23, 27, 34, 37, 43, 44, 51, 64
2.4	1-6, 7, 10, 15, 23, 25, 36
2.5	1-8, 9, 11, 13, 15, 21, 23, 25, 27, 31, 32, 34, 38, 40, 43, 53
2.6	1-8, 9, 12, 13, 15, 16, 23, 33, 35, 51, 81
2.7	1-8, 9, 10, 19, 21, 33
3.1	1-10, 11, 12, 13, 15, 17, 18, 19, 23, 29, 33, 41, 53, 72
3.2	1-6, 7, 8, 9, 16, 17, 18, 19, 21, 23, 25, 35, 36, 39, 42, 43, 47, 50, 51, 67
3.3	1-6, 7, 8, 10, 13, 14, 17, 18, 21, 23, 27, 29, 31, 33, 49, 50, 54, 55, 62
3.4	1-6, 7, 8, 9, 10, 15, 17, 19, 21, 37, 38, 44, 45, 51, 56, 60
3.5	1-6, 9, 11, 12, 20, 27
3.6	1-6, 7, 8, 12, 14, 17, 19, 20, 21, 22, 29, 31, 48, 49
3.7	1-4, 5, 7, 8, 11, 12, 16, 21, 22, 27, 28, 33, 35
3.8	1-8, 9, 11, 12, 13, 17, 18, 19, 24, 26, 27, 28, 33, 37, 41, 45, 47, 51, 55, 59, 60
3.9	1-6, 7-12, 13, 14, 29, 31, 32, 35, 36
3.10	1-4, 5, 9, 10, 16, 17, 21
4.1	1-10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 23, 24, 25, 31, 32, 33, 45
4.2	1-10, 11, 12, 15, 16, 17, 18, 19, 31, 32, 33, 43, 44, 47, 49, 57, 59, 67, 68
4.3	1-6, 7, 9, 10, 15, 17
4.4	1-4, 5, 6, 10, 12, 13, 25
4.5	1-6, 7, 8, 9
4.6	1-6, 7, 8, 13, 15, 17, 21, 28, 29, 30
4.7	1-12, 13, 15, 17, 19, 25, 27, 32, 37, 39, 40, 49, 50, 53, 65, 67, 68
4.8	1-10, 11-18, 19-22, 27, 29, 31, 39, 42, 43, 44, 46, 67, 76, 77
5.1	1-8, 9, 15, 16, 17, 18, 32, 33, 34, 59
5.2	1-10, 11, 23, 24, 25, 31-34, 39, 65, 70, 72
5.3	1-10, 11, 13, 19, 23, 24, 25, 26, 31-33, 51, 52, 53, 55, 57
5.4	1-6, 7, 9, 11, 19, 20
5.5	1-8, 9-12, 13-16, 17, 19, 21, 23, 25, 35-38, 51