

Math 106
Analytic Geometry and Calculus I with Review Part I
Fall 2015

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Office hours: MWF 12:30-1:10 and by appointment

Course Materials:

• **Texts:**

1. Jon Rogawski, *Single Variable Calculus: Early transcendentals 3rd edition*, freeman 2015
2. Ebersole, Schattschneider, Sevilla, Somers, *A Companion to Calculus*, 2nd edition, Thomson Brooks/Cole,

• **Calculator:** All students are expected to have a graphing calculator and bring it to class.

We recommend the TI-83+, 84 plus; instructions will be provided on this calculator, but students

who wish to use a comparable calculator may.

Course Goals: This is Part I of a two-semester course in Calculus that includes a review of algebra and elementary functions. We will cover Chapters 1-3 in Rogawski and Chapters 0-7, 9, 10, and 13 in the Companion.

In this course, students will:

- learn the basics language of mathematics of change.
- work with functions algebraically, numerically, and graphically.
- understand and evaluate limits and continuity of functions.
- develop the concept of a derivative as both a rate of change and as the slope of a tangent to a curve.
- compute the derivatives of algebraic and exponential functions.
- apply all methods to real world problems.

Attendance: Class attendance is required. My definition of "Attendance" includes being prepared for class. Thus, bringing a textbook/notebook/pencil to class, reviewing notes before class, completing the homework assignments before the next class meeting, and participating in class discussions are all expected of each student.

If a student is absent, he/she must inform the instructor via voicemail or email before or on the day of the absence. It is the student's responsibility to keep up with all work covered in class and all assignments, even if absent from class.

A late assignment will be graded with a reduction of 20% for each day it is late. There will be no make-up quizzes given, and make-up exams are given only in extreme, pre-approved cases. If you have to miss an exam, it is your responsibility to contact me *in advance*.

Learning Disability Statement —Students who wish to request accommodations in this class for a disability should contact the Academic Support Center, located on the first floor of Monocacy Hall (extension 1401). Accommodations cannot be provided until authorization is received from the Academic Support Center.

More information may be found at P:\acdean\OCR Language.doc

Mathematics Department Academic Honesty Policy – The Mathematics Department supports and is governed by the Academic Honesty Policy of Moravian College as stated in the Moravian College Student Handbook. The following statements will help clarify the policies of members of the Mathematics Department faculty.

In all at-home assignments which are to be graded, you may use your class notes and any books or library sources. When you use the ideas or thoughts of others, however, you must acknowledge the source. For graded homework assignments, You may not use a solution manual or the help (orally or in written form) of any individuals other than your instructor. If you receive help from anyone other than your instructor or if you fail to reference your sources, you will be violating the Academic Honesty Policy of Moravian College. You may work with your fellow students on homework which is not to be graded. You are responsible for understanding and being able to explain the solution of all assigned problems, both graded and not graded.

All in-class or take-home tests and quizzes are to be completed by you alone without the aid of books, study sheets, or formula sheets unless specifically allowed by your instructor for a particular test.

Specifically, for this class, you may use any notes, books, or library resources for homework assignments (graded or non-graded). You may also work with other students on these assignments, **BUT, you must indicate those with whom you worked with as well as be responsible to explain all solutions by yourself.**

Methods of Evaluation:

Homework/Quizzes: Homework assignments will constitute an important part of this course and will be assigned daily. The problems assigned for homework represent a bare minimum, and you should work extra problems to ensure mastery of the material. Some problems will be turned in, some are just for practice. It is vital that you do all the homework problems assigned; you should keep all your work in a binder or notebook for reference.

For every hour in class you should expect to spend 2 hours doing work outside of class. Thus, for our class, I expect you to put in **7-8 study hours per week!** You cannot learn math without lots of practice!

Approximately once a week we will have a short, in-class quiz or homework will be collected. The quiz questions will be based mostly on the assigned homework problems. The best way to do well on the quizzes is to do all the assigned homework.

Exams: There will be *three* in-class exams and a cumulative final exam.

The final exam schedule is listed online and will be announced in class

Grading: The course grade will be determined as follows:

Homework	10%
Quizzes	20%
In Class Exams:	50%
Final Exam:	20%

Grade Scale :

A = 93 – 100	B+ = 88 – 89	C+ = 78 – 79	D+ = 68 – 67
A– =90-92	B = 83 – 87	C = 73 – 77	D = 60 – 67
	B– = 80 – 82	C- = 70 – 72	F = 0 – 59

****IMPORTANT NOTE****

You are responsible for any announcements made in class,
including changes to this syllabus!

Pacing schedule

Week/Date	Rogawski	CTC	Assignment
1 Mon Aug 31		0-A 0-B 1-A 1-B	0: 1a,b,c,d,e,f,,g,h 2ab, 3 1-A: 1, 4, 5 1-B: 2, 3
1 Wed		1-C 1-D	1-C: 1, 2, 3, 4 1-D: 1, 3, 4
1 Fri		1-E 1-F	1-E: 1, 2 1-F: 1, 2ab, 3, 4
2 M Sept 7		1-F	
2W		2-A 2-B	2-A: 2, 4 2-B: 1, 2, 3, 4
2 F		2-C 2-D	2-C: 1, 2 2-D: 1, 2, 3
3 M Sept 14	1.2	2-E	2-E: 1, 5, 7 1.2: 1, 3, 5, 7,
3 W	1.2 1.3		1.2:9,11,15,16,17 1.3: 1,3,5, 27, 34
3 F	1.4	2-F	2-F: 1, 3 1.4: 1, 3, 4, 6, 9, 11, 20 31,35,42,55
4 M Sept 21		7-A 13-A	7-A:1, 5 13-A: 8, 10
4 W	REVIEW		
4 F	TEST		
5 M Sept 28	1.5	13-A 13-B	13-A: 1, 4 13-B: 1, 3, 5

			1.5: 1,5,15 16, 25
5 W	1.6	3-A	3-A: 3, 4 1.6: 1, 2,3,11,13, 29
5 F	2.1		2.1: 1, 5, 11, 15
6 M Oct 5	2.2		2.2: 1-21 odd 27
6 W		3-B	3-B:1, 3, 5
6 F	2.3		2.3:1, 3, 5,9,11,23
7 M Oct 12	No class		
7 W		3-C	3-C:2, 3, 4, 5,9
7 F	2.4		Review limit 2.4: 1, 2, 3
8 M Oct 19	2.5	4-A	2.5:1, 3,5, 6, 13, 21,23,35
8 W	2.5		2.5:17,18,37,41
8 F	TEST		
9 M Oct 26		4-B 4-B 4-C	4-B1:1, 2,,4 4-B2 SKIP 4-C:2, ,3, 5
9 W		5-A	5-A:2, 6, 7 5-B2: 2, 3, 4, 6
9 F	2.6	5-B	5-B1;1, 3, 7 2.6:1,3,6,17,19,31,
10 M Nov 2	2.6		2.6:1,3,6, 17 ,51
10 W		6-A 6-B	6-B: 4, 8, 10
10 F	2.7	6-C	6-C: 1,2 2.7:1, 3, 7
11 M Nov 9	2.7		11,13
11 W	2.8		2.8:1,3, 19, 21
11 F	3.1		3.1:1, 7, 13, 27

12 M Nov 16		7-B	7-B: 2
12 W	Review		
12 F	TEST		
13 M Nov 23	3.2		3.2:1-21odd 27,29, 3141
13 W	No class		
13 F	No class		
14 M Nov 30	3.3		3.3;1,3,5,7,9,11,15,19,21
14 W		7-C 9-A	7-C:1,2,3,4 9-A:
14 F	3.4	9-B	3.5:1,2,3,5,7,9,15,19 9-B: 1a,b,c,d, 2
15 M Dec 7	3.5	10-A 10—B	10-A: 1 bc, 2c,3c 10-B: 1 3.5:1, 3, 4, 5
15 W	3.7		3.7: 1, 5,11, 13, 21
15 F	REVIEW FOR FINAL		

NOTE: This schedule is intended as a guide and could change during the semester. Other Graphing calculator and **HOMEWORK** assignments will be given on a weekly basis during the semester.