

MATH 126:
Math and Calculus Applications for Life,
Managerial, and Social Sciences II
Fall 2009

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Office: Yost 201

Grading Policy

Letter grades for the course will be assigned roughly according to:

100% - 90% :	A
89% - 80% :	B
79% - 70% :	C
69% - 60% :	D
59% - 0% :	F

although adjustments may be made.

Grading Breakdown

10%	homework and attendance
20%	weekly quizzes
45%	Midterms (3 at 15% each)
25%	Final Exam

Textbook

The textbook for this course is *Finite Mathematics and Applied Calculus - Fourth Edition* by Waner and Costenoble, ISBN 0-495-38427-5.

Attendance

Attending class is vital to satisfactory performance and you are expected to be present for all lectures.

Homework

Homework will be assigned weekly and collected *at the beginning of class* on Fridays. **Late homework will not be accepted.** If you are unable to hand in your homework on Friday, it must be received in advance to earn credit.

One problem at random from each homework set will be checked for accuracy. The remaining problems will be checked for completion. Homework grades will be assigned based on the following scale:

not handed in/late:	0%
semi-complete:	50%
complete:	100%

Note that the accuracy of the checked problem does not influence the grade for the homework. As long as an honest effort to solve all problems is made, full credit is given for the assignment. However, if problems are merely copied down or barely attempted, only half-credit will be given for the assignment. Homework is your chance to try out problems without risk of losing points for mistakes. It is highly recommended that you do your best on all homework assignments so that you know which topics are posing difficulties.

Collaboration on homework is encouraged, but remember that any work handed in under your name must be your own. If you have any questions about this, consult the university's academic integrity policy or ask me.

Assignments and other course information will be available on Blackboard at <https://blackboard.cwru.edu>.

Weekly Quizzes

Every Tuesday, during the second half of class, a short quiz will be given. **Absolutely no late make-up quizzes will be given.** If you know that you will be missing a class for any reason whatsoever, you must arrange a time to make up the quiz in advance, *or you will receive a zero.*

At the end of the semester, your lowest two quiz grades will be dropped.

Midterms

Each Midterm Exam will be cumulative, drawing on all lectures, homework, and quizzes up to that point.

Final

The Final Examination will be on December 8th from 4:00 p.m. - 7:00 p.m. It will be comprehensive. *If you cannot take the Final Exam at the scheduled time, let me know as soon as possible, and have the Dean of Undergraduate Studies authorize an alternative arrangement.*

Calculators

You will be allowed to use a calculator on quizzes and exams. A graphing calculator is permitted but not required. It is your responsibility to learn how to use your calculator. Ask for help if necessary, preferably before exam time.

Office Hours

My office is Yost 201. My scheduled office hours are Monday from 12:30 p.m. - 1:30 p.m., Tuesday from 10:30 a.m. - 11:30 a.m., and Wednesday from 9:30 a.m. - 10:30 a.m., although I may be in at other times. You are always welcome to stop by unannounced, but setting up an appointment by e-mail is the best way to ensure that I will be available.

Problems

If you have any problems or concerns at any point in the semester, please do not hesitate to contact me. The sooner you get in touch with me, the more likely it is that I will be able to help you.

Academic Integrity

All students are expected to adhere to the Case Academic Integrity Board's academic integrity policy.

Disability Services

I am available to meet with students with disabilities to discuss accommodations. Please be sure to also contact the Coordinator of Disability Services in ESS.

CLASS SCHEDULE, MATH 126
INSTRUCTOR: BENJAMIN SABREE

Week	Day	Date	Section	Topic
1	M	Aug. 24	13.1	Indefinite Integrals
	T	Aug. 25		Quiz #1
	W	Aug. 26	13.2	Substitution
	F	Aug. 28	16.3	<i>HW Due</i> Integrals of Trigonometric Functions
2	M	Aug. 31	13.3	Definite Integrals
	T	Sept. 1		Quiz #2
	W	Sept. 2	13.4	Fundamental Theorem of Calculus
	F	Sept. 4	14.1	<i>HW Due</i> Integration by Parts
3	M	Sept. 7		Labor Day – No Class
	T	Sept. 8		Quiz #3
	W	Sept. 9	14.2	Area Between Two Curves
	F	Sept. 11	14.4 – 14.5	<i>HW Due</i> Applications, Improper Integrals
4	M	Sept. 14		Review
	T	Sept. 15		EXAM #1
	W	Sept. 16	8.1	Random Variables
	F	Sept. 18	8.2	<i>HW Due</i> Bernoulli Trials, Binomial Random Variables
5	M	Sept. 21	8.3	Measures of Central Tendency
	T	Sept. 22		Quiz #4
	W	Sept. 23	8.3	Measures of Central Tendency
	F	Sept. 25		<i>HW Due</i> Applications of Central Tendency
6	M	Sept. 28	8.4	Measures of Dispersion
	T	Sept. 29		Quiz #5
	W	Sept. 30	Online Chapter 2	Probability Density Functions
	F	Oct. 2	Online Chapter 3	<i>HW Due</i> Mean, Median, Variance, and Standard Deviation
7	M	Oct. 5	Online Chapter 2,3	PDFs and Measures of Central Tendency and Dispersion
	T	Oct. 6		Quiz #6
	W	Oct. 7	8.5	Normal Distributions
	F	Oct. 9		<i>HW Due</i> Review
8	M	Oct. 12		Review
	T	Oct. 13		EXAM #2
	W	Oct. 14	2.1	Systems of Equations
	F	Oct. 16	2.2	<i>HW Due</i> Matrices

SCHEDULE SUBJECT TO CHANGE

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9	M	Oct. 19		Fall Break – No Class
	T	Oct. 20		Fall Break – No Class
	W	Oct. 21	2.1 – 2.2	Systems of Equations and Matrices
	F	Oct. 23	2.3	Applications of Systems of Equations
10	M	Oct. 26	3.1 – 3.2	Matrix Algebra
	T	Oct. 27		Quiz #7
	W	Oct. 28	3.3	Matrix Inversion
	F	Oct. 30	3.3	HW Due Matrix Inversion
11	M	Nov. 2	1.5	Linear Regression
	T	Nov. 3		Quiz #8
	W	Nov. 4	14.6	Differential Equations
	F	Nov. 6	Notes	HW Due First Order Linear Differential Equations
12	M	Nov. 9	Notes	Applications of Differential Equations
	T	Nov. 10		Quiz #9
	W	Nov. 11	Notes	Applications of Differential Equations
	F	Nov. 13	Notes	HW Due Second Order Linear Differential Equations
13	M	Nov. 16		Review
	T	Nov. 17		EXAM #3
	W	Nov. 18	15.1	Functions of Several Variables
	F	Nov. 20	15.2	HW Due Functions in Three Dimensions
14	M	Nov. 23	15.3	Partial Derivatives
	T	Nov. 24		Quiz #10
	W	Nov. 25	15.4	Maxima and Minima
	F	Nov. 27		Thanksgiving Break– No Class
15	M	Nov. 30	15.5	Constrained Maxima and Minima
	T	Dec. 1		Quiz #11
	W	Dec. 2		Review
	F	Dec. 4		HW Due Review
16	M	Dec. 7		Reading Day
	T	Dec. 8		Final Exam 4:00 – 7:00pm

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