

MATH 1170
MATHEMATICS FOR LIFE SCIENTISTS
Fall Semester, 2011

Time and Place: MWF 9:40 a.m., ST 205
Computer Lab: Tuesdays as assigned in LCB 115
Instructor: Professor F. Adler
Office Hour: Thursday, 12-1 in SB 319
Offices: 304 LCB and 319 South Biology
Phone: 1-6848 and 5-6202
Web: <http://www.math.utah.edu/~adler/math1170/>
email: adler@math.utah.edu
Lab TA: Megan Gorringer, gorringer@math.utah.edu
Text: F. R. Adler, *Modeling the Dynamics of Life: Second Edition*

The Course. Math 1170 is the first semester of a full year calculus sequence designed to teach the mathematics necessary to do biology in this quantitative age. The sequence is for students with little or no previous calculus. We will cover one section of the book per lecture. For additional background, don't forget the tutoring center, or ask me.

Computer Labs. We will meet for one hour weekly for a computer lab in LCB 115. Lab assignments will be due week on the following Tuesday and will account for 15% of your grade. The material covered in labs will be fair game for tests.

Homework. Homework will be due weekly on Mondays, with rare exceptions, with selected problems from the current sections. The odd-numbered problems have answers in the back. The problems are tentatively listed on the back of this syllabus, and changes will be announced in class and included on the web page. Hand in assigned problems from the sections covered on the previous Friday through Wednesday.

Exams. There will be three mid-terms (each with three or four problems), weekly quizzes (5 questions each, plus extra credit), and a comprehensive final (five problems).

Midterm 1 (Chapter 1)	Wednesday, September 21
Midterm 2 (Chapter 2)	Wednesday, October 26
Midterm 3 (Chapter 3)	Friday, November 18
Final Exam (Chapters 1-4)	Monday December 12, 8:00 a.m. – 10:00 p.m

Grading. Grades will be weighted according to the following scheme. You can drop your lowest midterm or half the final, and your worst two quizzes. The curve is built before these low scores are dropped.

Each midterm	10%
Quizzes	10%
Final Exam	30%
Written homework	15%
Computer lab write-ups	15%

ADA policy The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in this class, reasonable prior notice needs to be given to the Center for Disability Services, 162 Olpin Union, 1-6020. CDS will work with you and the instructor to make arrangements for accommodations.

Accommodations policy. The instructor does not grant content accommodation requests as the course content fulfills legitimate pedagogical goals

Date	Day	Sections covered	Homework Problems	Due
August 22	M	1.1		
August 24	W	1.2	2, 6, 10, 14, 26, 30, 40, 42, 46, 54, 64	Aug 29
August 26	F	1.3	6, 10, 12, 18, 24, 26, 30, 36, 42, 46, 50	Sept 2
August 29	M	1.4	10, 12, 18, 22, 30, 40, 42, 52, 54	Sept 2
August 31	W	1.5	8, 12, 14, 18, 22, 26, 30, 38, 58	Sept 12
September 2	F	1.6	6, 12, 14, 22, 30, 32, 38, 44, 46	Sept 12
September 5	M	Labor Day		
September 7	W	1.7	6, 8, 16, 20, 24, 34, 44, 46, 56	Sept 12
September 9	F	1.8	2, 10, 32, 38, 42, 48, 52, 54	Sept 19
September 12	M	1.9	4, 12, 16, 20, 24, 34, 42, 46	Sept 19
September 14	W	1.10	2, 8, 24, 40	Sept 19
September 16	F	1.11	1, 5, 15, 16	Sept 19
September 19	M	Review		
September 21	W	Midterm		
September 23	F	2.1	6, 12, 18, 26, 30, 36, 38, 40	Oct 3
September 26	M	2.2	2, 10, 30, 34, 40, 42	Oct 3
September 28	W	2.3	2, 4, 12, 14, 30, 34, 38, 46	Oct 3
September 30	F	2.4	6, 8, 18, 22, 30, 34, 38	Oct 17
October 3	M	2.5	2, 4, 12, 14, 18, 34, 36, 38, 42	Oct 17
October 5	W	2.6	4, 10, 14, 18, 24, 28, 36	Oct 17
October 7	F	2.7	2, 10, 16, 24, 34, 38, 42	Oct 24
October 17	M	2.8	4, 8, 12, 20, 24, 28, 38	Oct 24
October 19	W	2.9	6, 12, 18, 22, 28, 36, 40	Oct 24
October 21	F	2.10	4, 8, 18, 32, 36	Oct 24
October 24	M	Review		
October 26	W	Midterm		
October 28	F	3.1	4, 8, 14, 24, 32, 38	Nov 7
October 31	M	3.2	6, 8, 10, 12, 14, 28, 30, 36	Nov 7
November 2	W	3.3	2, 4, 8, 10, 14, 16, 26, 28, 34, 46, 50	Nov 7
November 4	F	3.4	2, 8, 10, 12, 18, 26, 30, 34, 36, 38	Nov 14
November 7	M	3.5	4, 10, 16, 26, 36, 38, 40	Nov 14
November 9	W	3.6	6, 12, 20, 34, 38, 44	Nov 14
November 11	F	3.7	6, 12, 18, 24, 36, 38, 42	Nov 16
November 14	M	3.8	2, 6, 10, 24, 30	Nov 16
November 16	W	Review		
November 18	F	Midterm		
November 21	M	4.1	8, 10, 14, 18, 20, 24, 26	Nov 28
November 23	W	4.2	4, 14, 18, 24, 30, 32, 36	Nov 28
November 25	T-day			
November 28	M	4.3	2, 8, 12, 34, 38, 44	Dec 5
November 30	W	4.4	4, 6, 10, 14, 18, 22, 30, 34, 38	Dec 5
December 2	F	4.5	2, 8, 16, 22, 30, 40, 46, 48	Dec 9
December 5	M	4.6	4, 10, 16, 30, 32, 34	Dec 9
December 7	W	4.7	12, 16, 20, 28	Dec 9
December 9	F	Review		
December 12	M	Final		