

MATH 1101 Introduction to Mathematical Modeling (CRN 10797) Spring 2012

Instructor: Sara Malec

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Office hours: R 3:00-5:00pm or by appointment

There is a MATH 1101 Academic Assistance (for all math 1101 students) held at
Monday and Wednesday 2:30pm-3:45pm in 120 Kell Hall

Course Location & Time: 525 GCB 9:30-10:45 am

MyMathLab COURSE ID: malec90243

Textbook: College Algebra in Context, Georgia State University Edition, by Harshbarger and Yocco, Pearson, ISBN-1256133450 and

MyMathLab access code (all homework and quizzes will be delivered online using this software maintained by Pearson (the book publisher))

To register for MyMathLab, you will need:

- 1) MyMathLab access code (At the GSU bookstore, all new books come bundled with an access code).
- 2) Course ID which is malec90243

How do I register for my course?

Please go to the website: http://www.coursecompass.com/html/student_getting_started.html

It will walk you through the process step by step.

NOTE When you register for the course on MyMathLab,

- 1) You are **expected** to use your **GSU EMAIL**.
- 2) GSU's zip code is 30303

Important Notes:

1. MyMathLab includes live tutor support available from 5pm to midnight. The toll free phone number is 1-888-777-0463.
2. MyMathLab Technical Assistance for Students: 1-800-677-6337
3. Since Georgia State **does not** support MyMathLab (MML) or Course Compass (Pearson Education- the publisher of the textbook supports this software), **it is the responsibility of the student** to use the resources above to resolve all technical issues independently of the University. GSU and its faculty are not responsible for outcomes due to individual technical issues, nor scheduled MML and Course Compass downtime. It is expected that the student will be responsible for completing their work in a timely fashion as to alleviate any pressures these scheduled downtimes cause. All students will be notified of these downtimes through the announcements page of the course.

Note: This course syllabus provides a general plan for the course; deviations may be necessary.

1. THE COURSE

- a. **Course Description:** We will explore mathematical modeling using graphical, numerical, symbolic, and verbal techniques to describe and explore real-world data and phenomena. Emphasis is on the use of elementary functions to investigate and analyze applied problems and questions, on the use of appropriate supporting technology, and on the effective communication of quantitative concepts and results.
- b. **THIS COURSE IS NOT AN APPROPRIATE PREREQUISITE FOR COLLEGE ALGEBRA, PRECALCULUS OR CALCULUS.** You are responsible for understanding the implications of taking MATH 1101. Please discuss your situation with your instructor if necessary.
- c. **Prerequisites:** Knowledge of high school algebra II, or equivalent. This includes algebraic expressions, first degree equations and inequalities, exponents, radicals, solving and graphing linear equations, factoring quadratic expressions, and other topics.
- d. **Course Coverage:** We will cover the following sections from the text:

Chapter 1	Functions, Graphs, and Models; Linear Functions (1.1 - 1.4)
Chapter 2	Linear Models, Equations and Inequalities (2.1 - 2.4)
Chapter 3	Quadratic and Other Nonlinear Functions (3.1 - 3.4)
Chapter 4	Additional Topics with Functions (4.1 - 4.3)
Chapter 5	Exponential and Logarithmic Functions (5.1 - 5.6)

Additional materials needed for the course will be distributed electronically through uLearn at <http://ulearn.gsu.edu>, or by email, or as a handout during class.

2. EVALUATION. Your course grade will be determined as follows:

- a. **Tests (50%).** Four closed book/closed notes tests (12.5% each test) are scheduled during the regular semester (see attached schedule). Tests may not be made up (unless it is a documented University excused absence...see the Student handbook for details).
- b. **Homeworks (using MML online) (10%).** There will be mandatory homework offered in an online format for you to work and receive instant feedback!! Of course, as it states, this is a mandatory part of your grade and will be graded by the software. Please note the due dates as there will NOT be any extensions given. There will be an Amnesty day on Friday, April 20, in which all online assignments (excluding exams/projects) will be reopened for you to work.
- c. **Quizzes (using MML online) (6%)** – There will be mandatory quizzes offered in an online format. Each quiz will be a subset of the homework completed for the specific textbook section. You will be given 60 minutes to complete the quiz and given two attempts. The higher of the two grades will stand. Please note the due dates as there will NOT be any extensions given. There will be an Amnesty day on Friday, April 20 in which all online assignments (excluding Pre QL and Post QL) will be reopened for you to work.
- d. **Projects (9%).** Two Excel projects will be assigned during the semester. The Excel software is available on the computers in the GSU computer labs. Basic instructions for using Excel will be given in class. The projects will be collected and graded. The average score of the two projects will be the project grade.

- e. **Final Exam (25%).** The two and a half hour final exam will be closed book, closed notes, and will be comprehensive. It will be held in our regular classroom. A missed final exam will result in a score of zero. You may use this final exam grade to replace a missed exam grade. *Your final exam score may be used to replace the lowest of the four regular semester exams if you take all four exams.*

Example of Course Grade Computation:

Test Grades: T1 = 88, T2 = 72, T3 = 68, T4=87

MML homework average = 95

MML quiz average = 85

Excel Project average = 90

Final Exam=76

Course Grade: $0.125*(88+72+76+87) + 0.10*95 + 0.06*85 + 0.09*90 + 0.25*76$

3. **GRADING SCALE.** We will use the following grading scale:

Numeric Ave.	Letter Grade
97 - 100	A+
93 - 96	A
90 - 92	A-
87 - 89	B+
83 - 86	B
80 - 82	B-
77 - 79	C+
70 - 76	C
60 - 69	D
0 - 59	F

4. **Makeup Policy:** Your final exam grade will replace your missed exam grade. No make-up exams will be given except in some extreme situations, like university-approved excuses which must be verified in writing. If feasible, written notification in advance is required. Otherwise, I must be notified of the absence within two business days. Excuses must have some form of written verification. Absence from the final exam will result in a grade of F for the course unless arrangements are made PRIOR (at least one week before the final exam) to its administration.
5. **CALCULATOR Policy.** You will be free to use any STAND ALONE scientific calculator (i.e. NOT a part of your cell phone/ipod/pager, etc), but don't forget that you will be asked to provide full work for many questions in your tests and the final. You are not allowed to share a calculator with any other party in your class during any in class quiz or exam unless permitted by your instructor.
6. **Academic assistance at GSU:**
- Attend academic assistance for MATH 1101, M. W.2:30-3:45pm, 120 Kell Hall
 - Visit the Math Assistance Complex (MAC), 122 Kell Hall (phone: 404-413-6462)
 - Visit the Counseling Center for Learning assistance, Test anxiety classes, and Student support services (phone: 404-413-1641)
 - African American Student Services (phone: 404-413-1530)
 - A private tutor list is available at Math Assistance Complex and Math Department

7. **ACADEMIC HONESTY:** Cheating/plagiarism will not be tolerated on any work. A first occurrence will result in a grade of 0 on the assignment for all concerned parties as well as an Academic Dishonesty form being filed with the Dean of Students. A second occurrence will result in a grade of F for the course for the concerned parties and a second Academic Dishonesty form being filed. During in-class quizzes, tests, and the final exam you will be instructed to do your own work, no talking, and not share calculators. Violations of these instructions constitute dishonesty and will be handled in accordance with University policy. The instructor has the option of withholding or denying credit for answers not adequately supported by you.
8. **Inclement Weather Policy:** If the University is closed due to inclement weather, any exam that may have been scheduled for that date will be administered on the next available class date. If an assignment is due that day, it will be due the next class. Please check the website <http://www.gsu.edu>. This website will communicate whether campus is closed or delayed start.
9. **Attendance Policy:** Attending class is of utmost importance and is your responsibility and yours alone. During class I will clarify important or complex points for you, observe you working problems, and answer your questions.
10. **Conduct Policy:** Please turn off all cell phones, pagers and all other electronic communication devices and keep them off the desk. Text messaging, instant messaging, email, etc. during class is strictly prohibited and is grounds for dismissal. If you are using your cell phone, using your computer for tasks that are not course related, talking, or otherwise disrupting students, you will be asked to leave. After the third incident, you will be administratively removed from the class (as per the Student handbook). Please see the University's Policy on Disruptive Behavior in the *General Catalog*, p. 19 (www.gsu.edu/images/Downloadables/UG_05_06.pdf) or *On Campus*, the official student handbook (www2.gsu.edu/~wwwdos/codeofconduct_adminpol_a.html).
11. **Disability Service:** If you have a disability and require accommodations, please contact the instructor early in the semester so that your learning need may be appropriately met. You will also need to provide documentation of your ability to the Office of Disability Services (ODS) located on the second floor of the Student center, Suite 230, 404-413-1567.
12. **Withdrawal Policy:** You cannot withdraw from the course simply by ceasing to attend class; you must formally withdraw. If you intend to withdraw, do so before **midpoint (February 24)** to avoid a grade of "F" or "WF." See <http://www.gsu.edu/es/withdrawals.html>

Monday	Tuesday	Wednesday	Thursday	Friday
January 9	10 Intro 1.0, 1.1	11	12 1.2	13
16 MLK Holiday (no classes)	17 1.3	18	19 1.4	20
23	24 2.0	25	26 2.1	27
30	31 review	Feb. 1	2 Test 1	3
6	7 2.2	8	9 2.3-2.4	10
13	14 3.0-3.1	15	16 3.2-3.3	17
20	21 3.4/review Project 1	22	23 Test 2	24 Midpoint
27 Spring Break	28 Sp Break	29 Sp Break	Mar. 1 Sp Break	2 Sp Break
5	6 4.0-4.1	7	8 4.1-4.2	9
12	13 4.2-4.3 Project 2	14	15 5.0-5.1	16
19	20 review	21	22 Test 3	23
26	27 5.2	28	29 5.3	30
Apr. 2	3 5.3-5.4	4	5 5.4	6
9	10 5.5	11	12 5.6	13
16	17 review	18	19 Test 4	20 Amnesty Day
23	24	25	26 Final 8:00-10:30am	27