

**Mount Saint Mary College**  
Newburgh, NY 12550  
Division of Mathematics and Information Science

MTH 1110  
Elem Functions

Spring 08  
S. Pat Sullivan

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**Text, Resources and Materials:**

Tan, S. T, Applied Mathematics for the Managerial, Life and Social Sciences  
TI-83 or 84 calculator

**OFFICE HOURS:**

TTH 1:30-2:30  
or by appointment  
or by chance

Aquinas Hall 50G  
569-3267  
Sullivan@msmc.edu

**Prerequisite:**

Satisfactory score on Compass screening test or MTH 0150

**Objectives:**

Upon completion of the course, the students will have the ability to:

- 1) Recognize and analyze functions and function notation.
- 2) Solve real-life problems using functions, system of equations and inequalities.
- 3) Determine solutions to functions both algebraically and graphically
- 4) Use appropriate finance formulas to solve finance problems

**Course Requirements:**

1. All students are expected to attend all classes
2. Students are expected to complete all homework assignments.
3. Test: Students must demonstrate proficiency on tests. Four tests will account for 60 % of course grade.
4. Project 20%
5. Students are expected to remember and use course content. There will be a cumulative final during final exam week. The final will be 20% of the grade.

**Make-ups:**

No make-up tests will be administered except for cases of illness verified by a legitimate doctor's excuse or other grave cause. There will be no make ups for quizzes but one quiz grade will be dropped.

**Academic Dishonesty Statement:**

Mount Saint Mary College students are expected to demonstrate a high standard of academic honesty in all aspects of their academic work and college life as stated in the student handbook pg 27.

**Disability Statement:**

Reasonable accommodations, as arranged through the disabilities coordinator will be provided for students with documented disabilities. Contact the MSMC Disabilities Coordinator. Further Information may be found in the MSM Catalog.

**Grading System:**

<u>Grade</u>	<u>Quality Points</u>
95-100 A	4.0
90-94 A-	3.67
87-89 B+	3.33
83-86 B	3.00
80-82 B-	2.67
77-79 C+	2.33
73-76 C	2.00
70-72 C-	1.67
67-69 D+	1.33
64-66 D	1.00
Below 64 F	0.00

- **Note:** Students must have a C in this course in order to take Precalculus.

## Elementary Functions Fall 2007 Course Outline

Date	Chapter	Topic
1/22	2.1	Coordinates and Lines
1/24	2.2	Coordinates and Lines
1/29	2.3	Math Models & Functions
1/31	2.4	Linear / Quadratic Functions
2/5	Review	
2/7	Test	
2/12	2.5, 2.6	Linear Functions
2/14	1.5	Quadratic Functions
2/19	3.1	Integer Exponents
2/21	3.2, 3.3	Exponential Functions Model
2/26	Review	
2/28	Test	
3/4	4.1	Compound Interest
3/6	4.2-4.3	Annuities, Amortization Funds
Project given - due 3/13		
3/11	5.1	Linear Equations
3/13	5.2	Linear Equations
3/25	5.2-5.3	Linear Equations
3/27	5.4,5.5,5.6	Matrices
4/1	Review	
4/3	Test	
4/8	6.1	Graphing Systems of Inequalities

4/10	6.2	Linear Programming
4/15	6.2	Linear Programming
4/17	6.3-6.4	Linear programming
4/22	6.5	The simplex method
4/24	Review	
4/29	Test	
5/1	Review for Final	
5/6	Review for Final	
Week of 8-10	Final	