

FALL 2010 (as of 8/18/10)

SYLLABUS FOR MGF1106 - MATHEMATICS FOR LIBERAL ARTS MAJORS I

ONLINE LECTURE SECTIONS ONLY

NOTE: THIS SYLLABUS IS ONLY FOR SECTIONS 0710, 0794, 3256, 3257, 3258, 3259, 3260, 3261, 3262, AND 3264 WHICH HAVE THE ONLINE LECTURE.

CONTENTS

- 1. Introduction
 - 1.1 Course Content page 2
 - 1.2 Required Materials page 2
 - 1.3 Lectures page 2
 - 1.4 Discussion Section page 2
 - 1.5 E-Learning page 2
 - 1.6 Free Help page 2
 - 1.7 Students with Disabilities . . page 3
 - 1.8 Academic Honesty page 3
- 2. Testing page 3
- 3. Grading
 - 3.1 Course Grade page 4
 - 3.2 Book Homework page 4
 - 3.3 Discussion Quizzes page 4
 - 3.4 Module Quizzes page 5
 - 3.5 Course Introduction Quizzes . page 5
 - 3.6 Bonus Points page 5
 - 3.7 Self-evaluation quiz page 5
 - 3.8 Make-up Policy page 5
 - 3.9 Incomplete page 6
- 4. Book Homework page 7

1. INTRODUCTION

1.1 COURSE CONTENT: MGF 1106, Mathematics for Liberal Arts I is a general education/math course which includes an introduction to sets, logic, number theory, algebra, linear programming, probability, and statistics. This course is not intended to prepare you for precalculus or calculus.

1.2 REQUIRED MATERIALS: Book: A Survey of Mathematics with Applications, 8th edition by Angel/Abbott/Runde, custom edition for University of Florida (paperback) or regular hardback. The solutions manual is NOT required.

MathXL is required. It is an online homework, tutorial, and assessment system. The access code can be purchased with a new book or separately at <http://www.mathxl.com> for \$43. USE YOUR GATORLINK ADDRESS AS YOUR E-MAIL ADDRESS when registering, otherwise there is a 5 POINT PENALTY. You may choose your own login and password. When registering you will be asked for the course ID. It is XLOI-K110-101Y-6EX2. The 0 is the digit zero and the 1 is the digit one. If you are repeating the course, your access code should still be good if it was within the last year.

1.3 LECTURES, online lectures are the main presentation of the material in the course. After viewing the online lecture, go to E-Learning to take the quiz to receive your bonus points.

1.4 DISCUSSION CLASS, which meets on Thursday gives you the opportunity for open discussion of the assigned problems and the material from the lectures. Sections 3256, 3257, 3258, 3259, 3260, 3261, 3262, and 3264 will meet during their assigned time in a classroom on campus. Sections 0710 and 0794 will meet at their assigned time online using Elluminate. Weekly quizzes will be given on the recent material. Twice during the semester you may attend a different period of your TA's discussion class if your TA has more than one discussion class. Go to E-Learning at <http://lss.at.ufl.edu> to see when and where your TA teaches.

Your main resource person is your discussion leader. He/she is available during his/her office hours to help you and also to keep records of all quiz scores. It is required for you to go to E-Learning at <http://lss.at.ufl.edu> to verify that your scores have been properly recorded. You must contact your T.A. within one week to take care of any errors on E-Learning. Also, be certain that you agree with your total points and that your grade correctly reflects your scores in the course. Your grade is subject to being raised or lowered if there is a recording error, computational error, bubbling error, padding error, etc. If there is a problem concerning your discussion section which you do not feel free to discuss with your discussion section leader, please contact the course coordinator, Mrs. Tornwall in Little Hall, room 374.

1.5 E-LEARNING is located at <http://lss.at.ufl.edu>. You can find your grades, announcements, office hours, free help information, test locations, etc. at this site.

1.6 FREE HELP! In addition to attending your discussion section regularly and visiting your discussion leader during his/her office hours, the following aids are available

- a. The Teaching Center located at S.W. Broward (basement) offers informal tutoring. Check their website at <http://www.teachingcenter.ufl.edu> for their hours.

- b. Textbooks and solutions manuals are located at Library West at the reserve desk, the Journalism Library reserve desk, and also at the Norman Hall Library reserve desk.
- c. Private Tutors: If after availing yourself of these aids, you feel you need more help, you may obtain a list of qualified tutors for hire at <http://math.ufl.edu>, click on tutors.
- d. Math Confidence Group is for students who have difficulty with math. It is NOT a tutoring session. It is a small informal and fun group which helps you gain confidence and do better in math and science courses. It meets weekly. Call 352-392-1575 for more information.

1.7 STUDENTS WITH DISABILITIES: Students requesting classroom accomodation must first register with the Dean of Students Office. The DOS will provide documentation to the student who must then provide this documentation to the course coordinator, Mrs. Tornwall when requesting accomodation.

1.8 ACADEMIC HONESTY: The University of Florida expects students to be honest in all of their university classwork. Please remember that you committed yourself to academic honesty when you registered by signing the statement:

“I understand that the University of Florida expects its students to be honest in all of their academic work. I agree to adhere to this commitment to academic honesty, and understand that my failure to comply with the commitment may result in disciplinary action, up to and including expulsion from the University.”

The Math Department expects you to follow the academic honesty guidelines. Matters of violations of academic honesty are adjudicated by the Dean of Students Office.

It is important to remind students that lectures given in this class are the property of the University/faculty member and may not be taped without prior permission from the lecturer and may not be used for any commercial purpose. Students found to be in violation may be subject to discipline under the University’s Student Conduct Code.

2. TESTING

a. You should bring to each test only the following:

- 1. Soft lead pencils.
- 2. Knowledge of your discussion section number.
- 3. Your Univ. of Fla. picture ID card (GATOR–ONE CARD).

* It is suggested that you do not bring anything of value to the test since backpacks are to be left in the back of the room during the test.

No aids (books, notebooks, calculators, people, etc.) are permitted; scratch paper will be provided.

b. If you incorrectly bubble-in or fail to bubble-in the test form code, your section number, your name, or your UF ID number on the answer sheet, or you fail to bring the proper ID, you may lose points on your test. The number of points you lose is determined by the type of error you make. Also, you must darkly bubble in your answers with a soft lead (#2) pencil so the computer can read your answers correctly.

c. No one will be admitted to a test later than 20 minutes after the starting time of the test. No one will be permitted to leave the test until 20 minutes after the stated starting time.

d. You must take your test in the test location assigned to your officially registered discussion section or you will lose points on your test.

3. COURSE GRADE

3.1 COURSE GRADE: The course grade is based on 500 points accumulated as follows:

Web	Tour	Quiz:	1	@	3	points	for	3	points
Handbook/Syllabus		Quiz:	1	@	3	points	for	3	points
Contract		Quiz:	1	@	3	points	for	3	points
Self-evaluation		quiz	1	@	1	point	for	1	point
Online Module Quizzes:		Best 10 of 13		@	9	points each	for	90	points
Discussion Quizzes:		Best 10 out of 12		@	10	points each	for	100	points
Tests:	Best	3	out	of	4	@	100	points each	for 300 points

Total 500 points**

**Add your bonus points (maximum of 12 points from the E-Learning quizzes for viewing the lecture videos) to your total points, then use the scale below.

The course grade is determined by the number of points you have, not by the percentage points, and will be strictly adhered to.

A = 450–500 points (90%)

A- = 435–449 points (87%)

B+ = 420–434 points (84%)

B = 400–419 points (80%)

B- = 385–399 points (77%)

C+ = 370–384 points (74%)

C = 350–369 points (70%)

C- = 335–349 points (67%)

D+ = 320–334 points (64%)

D = 300–319 points (60%)

D- = 285–299 points (57%)

E = below 285 points

For information on UF grades and grading policies go to
<http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html>

For information on dropping courses and withdrawals go to
<http://www.registrar/ufl.edu/catalog/policies/regulationdrops.html>

3.2 BOOK HOMEWORK: The homework assignments on page seven represent the minimum number of problems you should do in each section and serve as a basis for your questions in your discussion section.

3.3 DISCUSSION QUIZZES: Sections 3256, 3257, 3258, 3259, 3260, 3261, 3262, and 3264 will meet during their assigned time in a classroom on campus. Sections 0710 and 0794 will meet at their assigned time online using Elluminate. A ten point quiz will be administered on Thursday in the discussion class. This is a timed quiz. If you do not attend the discussion class your discussion quiz grade will be 0. The exception to this is if the quiz is an attendance quiz. If you complete the survey, you can get 5 points for the quiz. Quizzes will be based on the previous lectures and homework assignments. These quizzes are NOT open note nor open book, and must be done without help from any source.

3.4 MODULE QUIZZES: Module quizzes will be given through Mathxl. See section 1.2 for Mathxl registration information. The online homework and module quizzes, which can be found at <http://www.mathxl.com> are due by 10 p.m. on Tuesdays. You must score a minimum of 70% on the homework, before you can take the module quiz. You have an unlimited number of attempts and time on the homework. You have three attempts on the module quiz and unlimited time. The best quiz score is counted. The module quiz is worth 8 points. DO NOT wait until the last minute to take your quiz, since if you encounter a computer glitch, you will be out of luck. The module quizzes are open book and open note. You can have a tutor help you with the homework portion, but not the quizzes.

3.5 COURSE INTRODUCTION QUIZZES: The Web Tour Quiz, the Handbook/Syllabus Quiz, and the Contract Quiz are quizzes to make sure you understand what is expected of you in this course. You will find these quizzes on E-Learning. You need to do these at the beginning of the semester.

3.6 SELF-EVALUATION QUIZ: This quiz is midway through the semester (check DUE DATES).

3.7 BONUS POINTS: There are 12 bonus points to encourage you to watch the 28 lecture videos in a timely fashion. The bonus quiz is available on E-Learning with each video module. To be eligible to take the bonus quiz, you must view the lecture video and take the quiz by 10 p.m. each Tuesday and Friday. Each bonus quiz is worth 1/2 point for a maximum of 12 points.

3.8 MAKE-UP POLICY: All make-up work must be completed by Thursday, December 9th at noon.

i) Exams: If you have a conflict due to a UF sponsored event or an exam in another course, you need to bring your documentation to Mrs. Tornwall in Little 374 at least one week before the exam to sign up for the make-up which will be given within one week of the test date. If you miss for any other reason see Mrs. Tornwall. To be eligible for this make-up you must have taken at least half of the E-Learning Bonus Quizzes. There is a 15 point penalty for missing the final, unless you have made a prior arrangement with Mrs. Tornwall.

If other classes are scheduled during the exam time, University policy states that the assembly exam takes precedence over the night class and the night class instructor must provide make-up work for students who miss class.

ii) Quizzes: There are no make-ups on quizzes, unless. a) You are participating in a UF sponsored event, for which you must bring your documentation one week prior to Mrs. Tornwall. b) You miss at least three quizzes for which you have valid, documentable reasons for your absences. You will be allowed to make up the excused quizzes that are in excess of two. To be eligible for a make-up you must have taken at least half of the E-Learning Bonus Quizzes. Bring your documentation to the course coordinator in Little 374 within one week of your third discussion

quiz absence.

iii) Religious holidays: Religious holidays are excused: however, you must notify Mrs. Tornwall in writing within the first three weeks of class.

iv) Court-imposed legal obligations - See Mrs. Tornwall.

3.9 INCOMPLETE: A grade of I (incomplete) will be considered only if you meet the Math Department criteria which is found at www.math.ufl.edu,

If you meet the criteria you must see Mrs. Tornwall (Little 374) before finals week, to be considered for an I. An I only allows you to make up your incomplete work, not to redo your work.

4. BOOK HOMEWORK

<u>Module</u>	<u>Assignment</u>
---------------	-------------------

- M1 Read sections 2.1-2.2 before coming to lecture.
2.1 Set Concepts: page 50, 13, 15, 20, 21, 22, 31, 33, 35, 43, 47, 51, 67, 68, 71, 75-89 odd.
2.2 Subsets: page 58, 7, 8, 9, 13, 15, 16, 17, 18, 21, 22, 23, 27-35 odd, 38-50 all, 53, 55, 61, 62.
- M2 Read sections 2.3-2.4 before coming to lecture.
2.3 Venn Diagrams and Set Operations: page 68, 17, 27-39 odd, 51, 55, 57, 69, 73, 75, 85, 91, 95, 97, 98, 99, 101, 102, 105, 109, 113, 114, 115, 116, 121, 123, 125.
2.4 Venn Diagrams with Three Sets and Verification of Equality of Sets: page 77, 9, 15, 17, 21, 51, 55, 57.
- M3 Read sections 2.4 before coming to lecture.
2.4 (continued): page 80, 67, 77, 79, 81, 86, 87.
2.5 Application of Sets: page 86, 1, 7, 13, 14, 15.
- M4 Read sections 3.1-3.2 before coming to lecture.
3.1 Statements and Logical Connectives: page 109, 11, 15, 17, 23, 27, 29, 43, 45, 51, 55, 61, 63, 67, 71, 77, 83, 85, 87.
3.2 Truth Tables for Negation, Conjunction, and Disjunction: page 122, 9, 11, 13, 23, 25, 27, 39, 43, 45, 49, 54, 55, 57, 65, 67, 69, 73.
- M5 Read sections 3.3-3.4 before coming to lecture.
3.3 Truth Tables for the Conditional and Biconditional: page 133, 7, 17, 35, 37, 43, 45, 55, 64, 69, 77.
3.4 Equivalent Statements: page 147, 9, 13, 15, 17, 19, 27, 31, 33, 35, 37, 39, 45, 57, 65, 69, 71, 81, 83, 85.
- M6 Read sections 3.5-3.6 before coming to lecture.
3.5 Symbolic Arguments: page 159, 13, 17, 25, 33, 41, 45, 53, 61.
3.6 Euler Diagrams and Syllogistic Arguments: page 167, 9, 15, 17, 19, 27, 29.
- M7 Read sections 5.1-5.2 before coming to lecture.
5.1 Number Theory: page 232, 15, 17, 27, 35, 47, 53-59 odd, 61-67 odd, 75, 79, 85, 87, 91.
5.2 The Integers: page 242, 47-55 odd, 59-67 odd, 71, 73, 75, 79.
- M8 Read sections 5.3-5.4 before coming to lecture.
5.3 The Rational Numbers: page 255, 15, 23, 29, 33, 43, 47, 55, 61, 67, 77, 87, 99, 103, 107, 111, 117, 119, 127.
5.4 The Irrational Numbers and the Real Number System: page 266, 27, 31, 33, 35, 36, 37, 38, 47, 57, 63, 67, 77, 81, 85, 87, 89, 93, 94, 95, 97, 98, 99.

REVIEW Review for Test 1. M1-M8. Check <http://lss.at.ufl.edu/> for your test location. Suggested review: page 94 1-9, 11-32, 35-54, page 97 1-16, 18-20, page 176 1-56, page 179 1-19, page 306 1-80, page 309 1-13, Fall Test 1 1-14, 16-20, Spring Test 1 1-20.

THE DAY AFTER THE TEST VERIFY ALL SCORES ON E-LEARNING.

M9 Read sections 5.5-5.6 before coming to lecture.

5.5 Real Numbers and Their Properties: page 273, 9-25 odd, 28, 29, 33, 35, 37, 41, 43, 47, 53, 55, 59, 63, 65, 75, 77, 81, 85, 91.

5.6 Rules of Exponents and Scientific Notation: page 284, 15-41 odd, 49, 57, 59, 75a, 79a, 83, 85, 91, 93, 101, 102, 103, 105, 107, 110, 111, 113, 115, 116.

M10 Read sections 12.1-12.2 before coming to lecture.

12.1 The Nature of Probability: page 729, 11, 13, 15, 19, 25, 26.

12.2 Theoretical Probability: page 737, 13-19 odd, 23, 24, 29, 33, 43, 45, 67, 69, 71-79 odd, 80.

M11 Read sections 12.3-12.4 before coming to lecture.

12.3 Odds: page 745, 9, 11-23 odd, 33-43 odd, 47-53 odd, 57, 59, 61.

12.4 Expected Value: page 755, 9, 11, 17, 19, 21, 23, 25, 27, 29, 39, 45, 46, 47, 55, 56, 57, 59.

M12 Read sections 12.5-12.6 before coming to lecture.

12.5 Tree Diagrams: page 766, 10, 13, 14, 17, 21, 23.

12.6 "Or" and "And" Problems: page 778, 11-19 odd, 23, 27-41 odd, 49-61 odd, 63-66 all, 71-83 odd, 84, 93-97 all, 103-109 odd.

M13 Read sections 12.7-12.8 before coming to lecture.

12.7 Conditional Probability: page 787, 11-19 odd, 25-39 odd, 59, 61, 63, 75 a-f, 79, 81, 83.

12.8 The Counting Principle and Permutations: page 799, 19, 21, 25, 31, 33, 35, 37-40 all, 45-63 odd, 64, 65, 66, 69, 71.

M14 Read section 12.9 before coming to lecture.

12.9 Combinations: page 806, 19, 21, 23, 27, 33, 35, 37, 43, 45, 51, 52.

M15 Read section 12.10 before coming to lecture.

12.10 Solving Probability Problems by Using Combinations: page 813, 9-17 odd, 19-22 all, 27, 29, 30, 39-47 odd.

REVIEW Review for Test 2. M9-M15. Check <http://lss.at.ufl.edu/> for your test location. Suggested review: page 307 81-122, page 309 14-20, page 825 1-66, page 829 1-24, Fall Test 1 15, Fall Test 2 1-20, and Spring Test 2 1-20.

THE DAY AFTER THE TEST VERIFY ALL SCORES ON E-LEARNING.

M16 Read sections 13.1-13.4 before coming to lecture.

13.1 Sampling Techniques: page 837, 15-23 odd, 27.

- 13.2 The Misuses of Statistics: pg. 841, 13, 19, 21.
- 13.3 Frequency Distributions: page 847, 7, 13, 32.
- 13.4 Statistical Graphs: page 855, 7, 9, 11, 15, 17, 23.

M17 Read sections 13.5-13.6 before coming to lecture.

13.5 Measures of Central Tendency: page 867, 19, 23, 25, 31, 33, 35, 37, 38, 42, 43, 45, 46, 47, 49, 50, 51, 55, 56.

13.6 Measures of Dispersion: page 877, 21, 27, 31.

M18 Read section 13.7 before coming to lecture.

13.7 The Normal Curve: page 894, 7, 9, 10, 27, 29, 31, 33, 35, 39, 41, 43, 47, 49, 51-54 all, 75-82 all, 84.

M19 Read section 6.7 before coming to lecture.

6.7 Graphing Linear Equations: page 372, 23-29 odd, 35, 43, 45, 55, 61, 71, 73, 75, 85, 89, 91-99 odd, 103, 105, 107.

M20 Read section 7.1 before coming to lecture.

7.1 Systems of Linear Equations: page 419, 11, 15, 23, 25, 29, 31, 33, 41-59 odd.

M21 Read section 7.2 before coming to lecture.

7.2 Solving Systems of Equations by the Substitution and Addition Methods: page 431, 21, 23, 24, 37, 39, 41-49 odd, 56, 58, 59, 60.

M22 Read section 6.8 before coming to lecture.

6.8 Linear Inequalities in Two Variables: page 378, 7, 13, 27, 29, 31.

M23 Read section 7.5 before coming to lecture.

7.5 Systems of Linear Inequalities: page 456, 19, 21.

VERIFY YOUR SCORES on E-Learning at <http://lss.at.ufl.edu> before attending discussion. The grading scale is in the syllabus. If there is a problem with your scores, check with your TA. If the problem cannot be resolved, then see Mrs. Tornwall during her office hours. ALL PROBLEMS MUST BE RESOLVED BY December 9th AT NOON.

M24 Read section 7.6 before coming to lecture.

7.6 Linear Programming: page 461 9, 11, 17, 19, 21.

REVIEW Review for Test 3. M16-M24. Check <http://lss.at.ufl.edu> for your test location. Suggested review: page 407 57-86, page 411 11-14, page 465 1-18, 32-40, page 466 1-8, 13-16, page 913 1-28, 31-50, page 915 1-20, Fall Test 3 1-20, Spring Test 3 1- 20.

REVIEW Review for optional cumulative final. Suggested review: Fall Test 4 1-20, Spring Test 4 1-20. If you are satisfied with your scores on the first three tests you do not need to show for the final. You do not need to notify me either way. Check <http://lss.at.ufl.edu> for your test location. You can check your final grades on ISIS after late night on December 22, <http://www.isis.ufl.edu>.