

Spring 2010
Term 20102

MGF 1106
Topics in College Mathematics

Reference Number: #314336 MWF 10:00 - 10:50 Rm: T-123
Reference Number: #314335 MWF 11:00 - 11:50 Rm: T-121

Instructor: Lyn Noble

Office: C-117

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Office Hours:

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Home Page: <http://web.fscj.edu/~lnoble>

Monday	Tuesday	Wednesday	Thursday	Friday
9:20 – 9:50	1:20 – 1:50	9:20 – 9:50	3:30 – 5:20	9:20 – 9:50
12:30 – 1:20	3:30 – 5:20	12:30 – 1:20		
3:00 – 4:00		3:00 – 4:00		

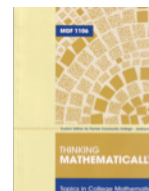
Required Materials:

- Thinking Mathematically with MyMathLab, 4th Ed., by Blitzer

Note: MyMathLab includes the complete text online. ***Rather than purchase the hardcopy of the book, you may opt to purchase online***

multimedia access to the package from: <http://www.coursecompass.com/website/students.html>

- Noble Lecture Notes Packet (available in the bookstore)
- Scientific or graphing calculator



OR



Catalog Description: Prerequisite: MAT 1033 with a grade of “C” or better or a satisfactory grade on the placement test. This course is designed for students who plan to major in fields that do not require an in-depth study of mathematics. The major topics introduced in this course are set theory, symbolic logic, geometry and measurement, introductory combinatorics, probability, and descriptive statistics and history of mathematics. The logical reasoning, probability and statistics skills measured by CLAST are among the skills taught in this course. 3 contact hours.

Tentative Outline

Chapter 1 – 2 Exam 1
Chapter 3 Exam 2
Chapter 9 – 10 Exam 3
Chapter 11 Exam 4
Chapter 12 Exam 5

Grading Scale

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

Grades will be computed as follows:

$$0.85 (\text{Exam Avg.}) + 0.10(\text{Quiz Avg.}) + 0.05(\text{Homework})$$

Exams: You are expected to be present for all exams; however, you are allowed one make-up exam. All make-up exams will be given during final exam week. Any subsequent missed exams will be counted as a zero. If you take all of the exams as scheduled, and have turned in all of the assigned homework, you may retake your lowest exam during final exam week.

Quizzes: A MyMathLab online quiz will be assigned for each section. All online quizzes are due at the start of class one week after the material is covered in class. You may take an online quiz as many times as you want, the highest grade will be recorded. Do not wait until the last minute to take an online quiz. No extensions will be given.

Homework: Homework may be done either online or from the textbook. Textbook homework should be turned in each class meeting and will be checked for completeness and form. All work must be shown. No credit will be given for answers only. Homework will not be accepted after an exam. Online homework is graded and is due at the start of class on the day of the exam. It is extremely important that you keep up with your homework assignments in order to assist you in understanding the content of the course. Mathematics is NOT a spectator sport! If you don't understand any part of it - get help immediately!

Attendance Policy Students are expected to attend class, to come on time, and to stay for the entire class period. Attendance will be taken each class meeting. Three tardies (coming late or leaving early) will count as 1 absence. A student absent from class is responsible for getting any missed material from a fellow classmate. Three bonus points (added on to your exam grade) will be earned for perfect attendance during a testing period.

Automatic Drop You will be dropped from the course if you have not attended at least one class meeting by January 19, 2010.

FN Grade Good attendance is important for success in this course. If you have missed more than 15% of the scheduled classes (8 class meetings) and you fail the course, you will receive an FN (Failure for non-attendance) grade. This grade may affect financial aid.

I Grade: A student may request an Incomplete grade (I) if they have completed at least 75% of the course with an overall course grade of at least a C average, and have a valid reason.

Student Academic Dishonesty Policy: Students found cheating on exams will receive an F in the course and procedures for expulsion from the college will be followed. Cheating includes (among other things) copying another individual's work (or allowing someone to copy your work) or using cheat sheets (or programmed information) on an exam. For the full policy see the College Catalog.

Warning: Students will have a maximum of 3 attempts per course. If the first two attempts are unsuccessful (D, F, FN, W, Audit) you will be charged out-of-state tuition (four times the cost of in-state tuition) for the third attempt. Only drops during the first week of the semester do not count as attempts (*Florida House Bill 1545*).

Students with Disabilities: Students with disabilities who seek reasonable accommodations in the classroom or other aspects of performing their coursework must first check with the Services for Students with Disabilities office at South Campus. Staff members work with students to obtain required documentation of disability and to identify appropriate accommodations. If the student is qualified, the Disabilities office will advise the instructor of approved accommodations. For further information, contact the South Campus Services for Students with Disabilities office director Carolyn Melican at 646-2191.

Other Policies:

1. Cell phone etiquette must be observed: In-class usage is restricted to emergency situations. Inform the instructor before class of any extenuating circumstances. Cell phones are not allowed during exams, not even as a calculator. Electronic devices, such as iPods, Blackberries, etc. are **not** permitted to be used or worn in class.
2. It is college policy that children under 16 are not allowed in the classrooms.

Tentative Outline

Monday	Tuesday	Wednesday	Thursday	Friday
11-Jan	12-Jan	13-Jan	14-Jan	15-Jan
Introduction 1.1 Inductive & Deductive Reasoning		1.2 Estimation 1.3 Problem Solving		2.1 Basic Set Concepts
18-Jan	19-Jan	20-Jan	21-Jan	22-Jan
Martin Luther King Holiday		2.2 Subsets 2.3 Venn Diagrams & Set Operations		2.3 Venn Diagrams & Set Operations 2.4 Set Operations and Venn Diagrams with Three Sets
25-Jan	26-Jan	27-Jan	28-Jan	29-Jan
2.4 Set Operations and Venn Diagrams with Three Sets		2.5 Survey Problems Review		3.1 Statements, Negations, & Quantified Statements
1-Feb	2-Feb	3-Feb	4-Feb	5-Feb
Exam 1 Ch 1, 2		3.2 Compound Statements and Connectives		3.3 Truth Tables for Negation, Conjunction and the Disjunction
8-Feb	9-Feb	10-Feb	11-Feb	12-Feb
3.4 Truth Tables for the Conditional & Biconditional		3.5 Equivalent Statements		3.6 Arguments & Truth Tables
15-Feb	16-Feb	17-Feb	18-Feb	19-Feb
President's Day Holiday		3.6 Arguments & Truth Tables		3.7 Arguments & Euler Diagrams
22-Feb	23-Feb	24-Feb	25-Feb	26-Feb
Review		Exam 2 Ch. 3		9.1 Measuring Length: The Metric System
1-Mar	2-Mar	3-Mar	4-Mar	5-Mar
9.2 Measuring Area & Volume		9.3 Measuring Weight & Temperature 10.1 Points, Lines, Planes, & Angles		10.1 Points, Lines, Planes, & Angles

Tentative Outline

Monday	Tuesday	Wednesday	Thursday	Friday
8-Mar	9-Mar	10-Mar	11-Mar	12-Mar
10.2 Triangles 10.3 Polygons & Perimeter		10.4 Area & Circumference 10.5 Volume		11.1 The Fundamental Counting Principle 11.2 Permutations
15-Mar	16-Mar	17-Mar	18-Mar	19-Mar
Exam 3 Ch. 9, 10		11.2 Permutations 11.3 Combinations		11.4 Fundamentals of Probability
22-Mar	23-Mar	24-Mar	25-Mar	26-Mar
11.5 Probability with the Fundamental Counting Principle, Permutations, and Combinations		11.6 Events Involving Not and Or; Odds Withdrawal deadline	Withdrawal Deadline	11.7 Events Involving And; Conditional Probability
29-Mar	30-Mar	31-Mar	1-Apr	2-Apr
Review		Exam 4 Ch 11.1–11.7		Good Friday Holiday
5-Apr	6-Apr	7-Apr	8-Apr	9-Apr
Spring Break	Spring Break	Spring Break	Spring Break	Spring Break
12-Apr	13-Apr	14-Apr	15-Apr	16-Apr
11.8 Expected Value		12.1 Sampling, Frequency Distributions, and Graphs		12.1 Sampling, Frequency Distributions, and Graphs
19-Apr	20-Apr	21-Apr	22-Apr	23-Apr
12.2 Measures of Central Tendency		12.3 Measures of Dispersion		12.4 Normal Distribution
26-Apr	27-Apr	28-Apr	29-Apr	30-Apr
12.4 Normal Distribution		Review		Exam 5 Ch 12
3-May	4-May	5-May	6-May	7-May
11:00 am class Makeup Exams (10:30am - 12:30pm)				10:00 am class Makeup Exams (10:30am - 12:30pm)

Learning Center (G-200) Free tutoring and computer tutorials are available.
 Monday - Thursday: 7:30am - 8:00pm; Friday: 7:30am - 3:00pm; Saturday: 9:00am - 3:00pm

MGF 1106 Homework Problems

Section	Page	Problems
1.1	9	1, 3, 7, 11, 15, 19, 21, 35, 37, 39, 43
1.2	23	1, 3, 9 – 31 odd, 37, 39
1.3	34	1, 3, 5, 7, 11, 13, 17, 19, 35, 39
2.1	55	1, 3, 9, 11, 15, 19, 23, 27, 33, 35, 37, 41, 43, 47 – 69 odd, 73, 75, 77, 81 – 87 odd, 91, 93
2.2	65	1, 3, 5, 9, 13, 15, 23 – 43 odd, 47, 49, 75, 79
2.3	76	5, 11, 13, 17– 39 odd, 67 – 77 odd, 93, 95, 109 – 117 odd, 121, 139
2.4	86	1, 3, 5, 25 – 45 odd, 51 – 59 odd, 63, 65, 79, 81, 83, 93, 97
2.5	97	1 – 21 odd, 27, 43, 45, 47
3.1	113	1, 3, 5, 9, 13, 15, 17, 21 – 35 odd, 41, 43, 51
3.2	125	1 – 13 odd, 27 – 63 odd, 67, 69, 71, 73, 75, 81, 83
3.3	139	1, 5, 9, 13, 19 – 31 odd, 37, 39, 43, 45, 53, 55, 57
3.4	149	1, 3, 5, 9, 13, 17, 19, 21, 29, 33, 35, 41, 65, 69, 71
3.5	163	1 – 7 odd, 15, 19, 21, 31, 33, 41, 43, 45, 57, 59
3.6	175	3, 5, 7, 11, 15 – 23 odd, 27, 29, 43, 45, 49
3.7	186	1, 5 – 23 odd
9.1	516	1, 7, 13, 17 – 45 odd, 57 – 73 odd
9.2	523	1 – 7 odd, 11 – 31 odd, 39 – 47 odd
9.3	530	1 – 15 odd, 21 – 27 odd, 31, 35, 39, 41, 45, 59, 65, 67, 69, 79 – 87 odd
10.1	544	5 – 15 odd, 25 – 31 odd, 37 – 43 odd
10.2	552	1 – 11 odd, 15 – 21 odd, 25, 35, 37 – 43 odd
10.3	561	1 – 11 odd, 15 – 21 odd, 25 – 31 odd
10.4	571	1 – 25 odd
10.5	579	1 – 19 odd
11.1	612	1 – 19 odd
11.2	619	1, 13, 19, 29, 33, 37 – 47 odd
11.3	625	1, 3, 7, 13, 17, 29 – 49 odd
11.4	633	1 – 31 odd, 35, 37, 41, 45, 49, 51, 55 – 65 odd
11.5	639	5 – 11 odd
11.6	649	1, 3, 13 – 19 odd, 25 – 31 odd, 39 – 45 odd, 61, 63, 67– 73 odd, 87, 89, 91
11.7	660	1 – 11 odd, 15, 17, 21, 23, 25, 33 – 39 odd, 43 – 53 odd, 57 – 69 odd
11.8	668	3, 5, 13, 15, 19
12.1	689	3 – 21 odd, 29, 31, handout
12.2	702	1, 3, 5, 9, 13, 15, 17, 21, 25, 27, 29, 33, 37, 39, 41, 45, 65
12.3	710	1, 5, 7, 17, 19, 21, 27, 29, 43
12.4	727	1, 7, 11 – 23 odd, 27, 33, 35, 57, 61, 63, 69, 71, 75 – 95 odd