

Math 121.02 Math for Liberal Arts (3 hrs) Syllabus
Meet: TR: 10:50 – 12:05 pm; MacH 16 (2nd floor)

Fall 2012

INSTRUCTOR Raydo R. Bugayong
Office: Mac Hall, Rm 15A
Office Hours: TR: 9:30 - 10:20 am WF: 12:30 – 1:20 pm or by appointment
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TEXT Thinking Mathematically by R. Blitzer, 5th ed, Prentice Hall Pub.
Note: You will need a scientific calculator.

Text Website: <http://www.pearsonhighered.com/educator/product/Thinking-Mathematically/9780321645852.page>

CATALOG DESCRIPTION The course covers topics in set theory, number systems, basic algebra, problem solving, graphs, functions, inequalities, and measurement. No prerequisite.

OBJECTIVES To develop qualitative as well as quantitative skills in the above mentioned mathematical concepts and to apply them to some real life examples.

WEEKLY SCHEDULE Two lecture / discussion / practice sessions.

ABSENCES Attendance in all lecture sessions is expected. Absence from lecture and test days will result in losing credits for graded activities unless there is prior excuse from the Registrar. Arrangement for makeup of graded activity has to be made within a week from the day the student comes back. Otherwise, 1/3 of the points will be lost for each day past this time limit.

MISCELLANEOUS Miscellaneous points (worth 50 pts) are awarded at the discretion of the instructor based on attendance, Learning Center tutoring help, class participation and general attitude towards the course.

HOUR EXAMS There will be four hour-exams appropriately spaced during the semester, each worth 150 pts. toward the final grade (total = 600 pts). The format of the hour exam is short answers and / or problem solving. Academic honesty policy is imposed as described in the Maggie. The hour exams will be given on the following dates: MARK YOUR CALENDAR

Exam 1: T, Feb 2 (Ch 2, 3)
Exam 2: R, Feb 28 (Ch 4, 5)
Exam 3: T, Mar 29 (Ch 6, 7)
Exam 4: R, Apr 19 (Ch 9,10)

Note: you cannot use cell phones as calculators and ipods during exams

HOMEWORK Homework problems are intended to help students apply the principles being studied on their own and develop confidence in their understanding of the material. Details will be announced in class. Homework is worth 150 points toward the final grade. The first five minutes or so of each class is used for clarifying points and giving hints (not solve problem). Additional help is

available outside of class during office hours and by appointment with the instructor or tutor . Normally, this helps a lot in the time and effort needed to do the homework - so students are encouraged to participate actively (See Miscellaneous points). **A scientific calculator is required.** Homeworks are assigned as in the schedule below.

FINAL EXAM A comprehensive final exam will be given and will be worth 150 pts toward the final grade. This exam has the same format as the hour exams. **The final exam will be on F, Apr. 27, 2012, 12 – 2 pm (NOTE: the final exam is not moveable - you are advised not to plan to leave for home or buy a plane/train/bus ticket dated before all your finals are over.)**

SUMMARY OF POINTS

4 Hour-exams, 150 pts each	600 pts
Homework (150) Misc.(50)	200 pts
Final Exam	200 pts

Total	1000 pts

GRADE SCALE The minimum points corresponding to letter grades are as follows:

850 - 1000	A
750 - 849	B
650 - 749	C
550 - 649	D
below 550	F

Classroom Policy (IMPORTANT)

Students should turn their cell phones off when they enter the classroom unless there is an emergency and the instructor is notified prior to class. Cell phones, Ipods and mp3 players cannot be used during class and exams.

Disruptive behavior in class may result in the student being asked to leave the classroom. This would include talking to others while the instructor is giving the lecture, texting, talking on the cell phone, coming in late or doing other gestures (like giggling, signing) that would distract other students (and instructor) from listening paying attention and taking notes of the lecture.

MATH 121.02 Sp 2012 Tentative Class Schedule

Lect: TR : 10:50 – 12:05 pm; (Note: HW assigned due the day after next meeting)

Day / Dates ...	Sections to cover,	HW Notes, Exam dates
1, 2 / Jan 12, 17	2.1 Set concepts; 2.2 Subsets 2.3 Venn Diagrams, set operations 2.4 Venn diagrams, set operations: 3 sets 2.5 Survey Problems	Jan 12: Jan 17:
3,4 / Jan 19, 24	3.1 Statements, negations, quantified statements 3.2 Compound statements, connctives3.3 Truth tables: negation, conjunction, disjunction 3.4 Truth tables: conditionals	Jan 19: Jan 24:
5,6 / Jan 26, 31	3.5 Equivalent statements, variations in conditional 3.6 Negations of conditional	Jan 26:

	statements, DeMorgan's Laws 3.7 Arguments and truth tables 3.8 Euler diagrams Jan 27: Catch up, Review: for Exam 1 (Ch 2, 3)	Jan 31
7, 8 / Feb 2, 7	<u>EXAM 1: T, Feb 2 (Ch 2, 3)</u> 4.1 Early number systems 4.2 Number bases	Feb 2: <u>EXAM 1: T, Feb 2 (Ch 2, 3)</u> Feb 7:
9, 10 / Feb 9, 14	4.3 Computation in positional systems 5.1 Number theory, prime and composite numbers 5.2 Order of operations	Feb. 9: Feb 14:
11, 12 / Feb 16, 21	5.3 Rational Numbers 5.4 Irrational numbers 5.5 Real number properties 5.6 Exponents, scientific notation 5.7 Arithmetic and Geometric Sequences	Feb 16: Feb 21:
13, 14 / Feb 23, 28	Feb 23: Catch up, Review for Exam 2 (Ch 4, 5) <u>Exam 2: R, Feb 28 (Ch 4, 5)</u>	Feb 23: <u>Feb 28: Exam 2: R, Feb 28 (Ch 4, 5)</u>
15, 16 / Mar 1, 13 (Note: Mar 6, 8 Spring Break)	6.1 Algebraic expressions, formulas 6.2 Linear equations in one variable, proportions 6.3 Applications linear	Mar 1: Mar 13:
17, 18 / Mar 15, 20	6.4 Linear inequalities in one variable 6.5 Quadratic equations 7.1 Graphing, functions 7.2 Graphs of linear functions 7.3 Systems of linear equations in two variables	Mar 15: Mar 20:
19, 20 / Mar 22, 27	7.4 Linear inequalities in two variables (7.5 skip) 7.6 Modeling data: exponential, logarithmic, quadratic functions Catch up, Review: Exam 3 (Ch 6, 7)	Mar 22: Mar 27:
21, 22 / Mar 29, Apr 3	<u>Exam 3: T, Mar 29 (Ch 6, 7)</u> 9.1 Measuring length, metric system 9.2 Area and volume 9.3 Weight and temperature	<u>Mar 29: Exam 3: T, Mar 29 (Ch 6, 7)</u> Apr 3:
23, 24 / Apr 5, 10	10.1 Points, lines, planes and angles 10.2 Triangles 10.3 Polygons, perimeter 10.4 Area and circumference	Apr 5: Apr 10:
25, 26 / Apr 12, 17	10.5 Volume 10.6 Right triangle trigonometry Catch up, Review for Exam 4 (Ch 9, 10)	Apr 12: Apr 17:

27, 28 / Apr 19, 24	<u>Exam 4: R, Apr 19 (Ch 9,10)</u> Overall catch up, Review for finals	<u>Apr 19: Exam 4: R, Apr 19 (Ch 9, 10)</u> Apr 24:
FINAL EXAM: <u>F, Apr. 27, 2012, 12 – 2 pm</u>		
NOTE: the final exam is <u>not moveable</u> - you are advised <u>not</u> to plan to leave for home or buy a plane/train/bus ticket dated before all your finals are over.		

Suggestions for a successful semester in this class:

1. Come to class every meeting. If you have to be absent, make sure you get a copy of somebody's notes for that day and try to catch up. Ask any questions you have from other students, the teacher or a tutor.
2. Take as much notes as you can in class . Write more notes that you come across outside class. They are your best friends when getting ready for a test.
3. Clarify points not so clear to you right in class or not later than next class or two . . . the first 10 minutes of each class will be used to answer such questions.
4. Read through the next assigned sections in the book before each class. You are not expected to understand everything but most probably you will have a question to ask while it is being explained in class. I plan to cover at least the next 3 or more sections every meeting.
5. Review the day's material outside of class (see No. 3 above) and try to keep up with your homework everyday. This will help you understand the topics being discussed and get you ready for tests.
6. Test your grasp of the lesson by solving the assigned homework problems as soon as they are covered in class and ask for help on what you are unable to solve in the next class.
7. Don't get behind. If you do, catch up soon. Good luck ... remember, **I am committed to help you, but you have to take the initiative to ask for help.**
