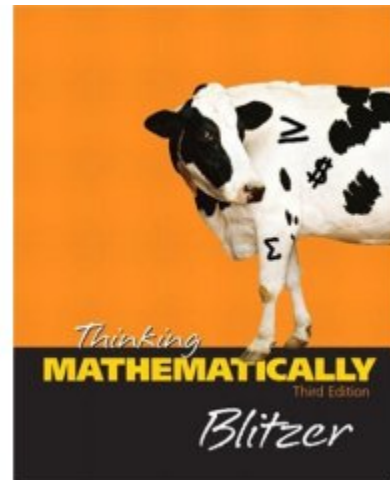


COURSE: M100 Basic Mathematics
Instructor: Dr. Iztok Hozo,
Office: Hawthorn 455, 980-6980
Math. Department: 980-6590
e-mail: ihozo@iun.edu
Home Page: <http://www.iun.edu/~mathiho/>

Time and location: M-W 9:50 - 11:25 p.m. Hawthorn Hall 460

TextBook: Thinking Mathematically
by Blitzer, 3rd Ed.

Grading: Pop-up Quizzes 60%
Midterm 20%
Final 20%



As a general rule, **NO** make-up quizzes will be given. However, an exception will be made in an extreme emergency, but only if a student can produce some evidence of the emergency. If at all possible, call the math office before the exam and leave a message with the secretary. The lowest quiz score will be dropped.

Homework is a crucial part of the course and will be assigned, but not collected. The quizzes will be based on the homework questions. Most of the answers are provided in the back of the book. It is not the answer that is important but how you get there and the understanding and justification of each step. Practice writing complete solutions for your homework, as this is what is expected on quizzes. A ton of homework will problems be assigned, but additionally working out **all** odd-numbered questions of each covered section is strongly recommended.

Read each section carefully - **work** as many exercises as you can (even those without the answers in the back). You are encouraged to work with other students. You may find that the actual amount of homework you do is more or less than other students. On average, you should expect to spend at least **TWELVE HOURS per week** (since this is a 4 credit-hour course) outside the class working on this material.

Placement Test

All incoming (new) students should take the Mathematics Placement Test. Placement testing and counseling is available in HH108. Please call 219-980-6601 to schedule an appointment. The test helps to determine whether a student takes a **math refresher course**, a developmental course M007 or M014, or some other course offered by the Department of Mathematics and Actuarial Sciences.

Students in college-level mathematics courses are generally assumed to have completed two years of high school algebra. Those unable to do mathematics at this level should begin with either a math refresher course, M007 (elementary algebra), or M014 (basic algebra).

Nature of this class

A course designed to convey the flavor and spirit of math, stressing reasoning and comprehension rather than technique. Not preparatory to other courses. It covers some of the following topics: the basic concepts of Set Theory, Numeration and Mathematical Systems, Number Theory, the basic concepts of Algebra, Graphs, Functions, and System of Equations and Inequalities, Geometry, Counting Methods, Probability, Statistics and Consumer Mathematics.

Math Lab: Located at Hawthorn Hall 446 (free tutoring, no appointment is needed).
Open Monday-Thursday 9AM-7PM, also Saturday 10AM-3PM.

Scientific Calculator (keys: $\ln x$ and e^x) will be needed! Recommended is TI-30 (or TI-83 graphing calculator).

Other Class info: In case of absence check www.iun.edu/~mathiho for changes in syllabus, for the latest homework, possible practice tests and extra credit assignments, any other class announcements...

This course does not count toward a major in mathematics.

This is a **tentative** schedule that may vary during the semester. Please attend the classes if you want to know about any changes to this schedule! (I will try to keep updated syllabus on the web: www.iun.edu/~mathiho)

			<u>TENTATIVE SYLLABUS</u>
Week	Date	Day	Homework assignment and Quizzes
1	Jan 8	Monday	Practice pretest is at http://www.iun.edu/~math/M100Pretest.doc ! 2.1: P47: 1,5,11,13,15,17,19,27,29,35,37,43,45, 53,57,61,63,71
	Jan 10	Wednesday	Pretest and 2.2: P58: 7,17,23,27,37,41,43,47,49,51,53,57,69,71
2	Jan 15	Monday	Martin Luther King Day – no classes
	Jan 17	Wednesday	2.3: P65: 1,3,5,7,11,13,15,17,19,21,23,57,59,61,63,65 2.4: P72: 1,3,5,9,13,17,23,33,35,37,39,41,43
3	Jan 22	Monday	2.5: P80: 9,23,25 P85:55 P86: 17
	Jan 24	Wednesday	5.6: P251: 71,79,81,89,97,99,101
4	Jan 29	Monday	Review
	Jan 31	Wednesday	6.1: P277: 19,27,35,43,65,73,75 6.2: P289: 5,11,19,23,29,35,41,43,45,47,55,59,63,67,69,71,75,77
5	Feb 5	Monday	6.3: P297: 5,7,9,11,13,15,17,23,25,27,29,31,33,35,37,43,45,47 6.4: P308: 5,9,11,17,19,25,27,29,31,35,37,39
	Feb 7	Wednesday	6.5: P316: 15,19,25,29,33,37,39,45 6.6: P329: 37,39,41,43,55,57,59,61,63,71,75,77
6	Feb 12	Monday	Review
	Feb 14	Wednesday	Snow Day
7	Feb 19	Monday	8.1: P413: 7,13,23,25,31,33,35,39,41,43,45,47,49,51,53,55,57,59,61,63,65,67
	Feb 21	Wednesday	8.2: P419: 3,5,7,13,17,19,23,25,27,31,35 8.3: P425: 3,7,11,15,21,27,29,31,33
8	Feb 26	Monday	Review
	Feb 28	Wednesday	MIDTERM
9	Mar 5	Monday	9.1: P469: 3,7,11,13,17,21,23,25,27,29,31,33,35,37,39,41,43,59,61,63
	Mar 7	Wednesday	9.2: P477: 5,7,11,13,15,17,21,23,25,29,33,35,43,45,47 9.3: P485: 3,7,9,11,13,19,21,23,27,33,37,39,43,59,61,65,67,69,71,73,75
10	Mar 12	Monday	Spring Break – no classes
	Mar 16	Wednesday	
11	Mar 19	Monday	10.3: P513: 13,15,17,19,21,23,41,43 10.4: P523: 1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,33,35,39,47 10.5: P532: 1,3,5,7,9,11,13,15,17,19,21,23,27,29,33,35
	Mar 21	Wednesday	Review
	Mar 23	Friday	Automatic ‘W’ Deadline
12	Mar 26	Monday	11.1: P564: 3,7,9,13,15,17,19,21
	Mar 28	Wednesday	11.2: P571: 1,7,13,29,33,37,39,41,43,45,47,49,51 and 11.3: P578: 1,3,5,7,9,13,17,27,29,31,33,35
13	Apr 2	Monday	11.4: P585: 1,5,11,15,19,23,25,27,29,31,35,37,39,41,47,55,57,59,61,63
	Apr 4	Wednesday	11.6: P602: 13,17,23,25,29,31,33,35,39,41,47,49,51,53,57,63,65,67,69
14	Apr 9	Monday	11.8: P620: 3,5,7,9,11,13,15,17,19
	Apr 11	Wednesday	Review
15	Apr 16	Monday	12.1: P641: 5,7,9,15,17,19,21,25,27
	Apr 18	Wednesday	12.2: P655: 7,9,17,32,41,49,51 12.3: P663: 5,17,21,23
16	Apr 23	Monday	12.4: All odd questions 1-101 on page P680 are recommended
	Apr 25	Wednesday	Review
Finals Week	May 2	Wednesday	FINAL EXAM