

M100 Basic Mathematics

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Time and Location: M – W – Th: 3:30 – 6:00, Hawthorn 416
Office hours: M – W – Th: 6:00 – 6:30, and by appointment

Textbook: Mathematical Ideas by Miller, Heeren, and Hornsby 11th ed.
Grading: There will be four tests (20% each) and comprehensive final exam (40%).

Important Dates (subject to change – please come to class and listen for announcements):

Week	Date	Day		Section Covered	Test
1	May 12	Monday	7.3 7.5	Variation P 381: 69 – 78 P 405: 13,17,19,21,25,27,33,47,51,55,57,61,63,65,69,75,77,79,83,92,95	
	May 14	Wednesday	7.7	P 422: 9,13,19,21,23,25,29,31,33,35,51,55,57,61,67	
	May 15	Thursday	8.2 8.3	P 448: 13,15,17,19,21,23,25,27,29,37,39,41,43,49,51,52,53,56,57,59,61,63,65,66,67 P 457: 5,7,8,19,21,33,35,37,45,53,55,57,67,68,72,73	
2	May 19	Monday	8.4	P 470: 11,13,15,17,21,27,33,35,37,39,41,45,57,59,61,63	
	May 21	Wednesday		Review	1
	May 23	Thursday	8.5 8.7	P 482: 9,11,13,15,29,31,33,41,43,45,49,51,57 P 509: 5,9,11,19,21,23,27,29,31,35,39,43,45,51,55,57,59,61,67,69,71,73,75,85,87	
3	May 26	Monday		Memorial Day	
	May 28	Wednesday	13.6	P 848: 7,9,15 and Excel HANDOUT problems:1,2	
	May 29	Thursday		Review	2
4	Jun 2	Monday		Measurement Handout	
	Jun 4	Wednesday	9.3 9.5	P 559: 7,11,15,17,19,21,30,33,35,39,55,61,65,67,77,79 P 584: 9,11,13,15,17,19,21,25,27,45,47,52	
	Jun 5	Thursday	2.1 2.2	P 56: 9,11,19,25,33,35,59,61,71,75,77 P 63: 7,9,11,13,23,25,27,29,31,33,35,37,45,47,49,53,61,63,69	
5	Jun 9	Monday	2.3 2.4	P 75: 7,9,11,13,15,17,19,23,49,53,55,57,71,73,81,83,87,91,95,97,101,105 P 83: 1, 3,5,9,19,21,23,24,25	
	Jun 11	Wednesday		Review	3
	Jun 12	Thursday	11.1 11.2	P 678: 1,3,5,7,9,11,13,21,23,34,35 P 690: 7,9,11,13,27,29,31,35,37,39,41,45,47,55,57	
6	Jun 16	Monday	12.1 12.2	P 731: 1,3,5,7,9,11,13,15,19,21,25,29,51 P 742: 5,9,11,13,15,17,19,27,29	
	Jun 18	Wednesday		Review	4
	Jun 19	Thursday	13.2 13.3	P 803: 1,3,5,9,17,19,25,27,29,31,43,45,47,51 P 814: 3,5,9,11	
7	Jun 23	Monday	13.4	P 821:1, 3, 5	
	Jun 25	Wednesday	13.5	P 832: 7,9,11,13,15,17,19,27,29,31,33,35,37,45,47,57,59	
	Jun 26	Thursday		Review and FINAL EXAM	

As a general rule, NO make-up tests will be given. 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 administrator. **THE LOWEST TEST SCORE WILL BE DROPPED!**

Homework is a crucial part of the course and will be assigned, but not collected. The tests will be based on the homework questions. Most of the answers are provided in the back of the book. The correct answer is not as important as 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 tests. A ton of homework will problems be assigned, but additionally working out all odd-numbered questions of each covered section is strongly recommended.

Expectations: 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, a rule of thumb is that you should expect to spend at least three to four times as much time studying for a college level math class as in class sessions. Since this is a summer session (twice as fast) we are spending 7.5 hours in class sessions per week which translates to 21.5 – 30 hours of studying outside the class working on this material.

You are encouraged to ask questions, and to participate in class activities as much as possible to make the learning process customized to your taste. It is up to you to make sure that I repeat and explain everything in detail --- **by asking questions in class.**

Prerequisites/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).

Scientific Calculator (keys: $\ln x$ and e^x) will be needed! Use of cell phone calculators during exams is prohibited. Recommended: TI-30 (or a TI-83 graphing calculator).

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

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, Algebra, Functions, Systems of Equations and Inequalities, Metric system, Geometry, Counting Methods, Probability, Statistics and Linear Modeling.

If you need assistance with a learning, physical or psychological disability that may affect your academic progress, I encourage you to contact the Disability Services Coordinator at 219-980-6943/Hawthorn Hall 235.

This course does not count toward a major in mathematics.

Goals: For description of how this course corresponds to the IUN's general education goals, visit our web page. **MATH LAB** is located at Hawthorn Hall 436. Stop by for free tutoring.