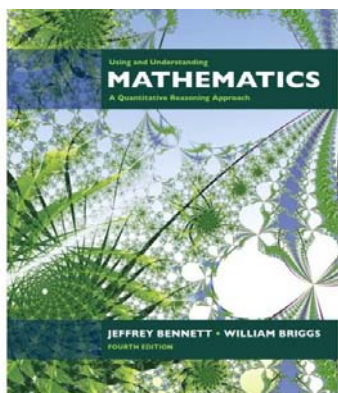


COURSE: M110 Excursions into Mathematics
Instructor: Dr. Iztok Hozo,
Office: Hawthorn 455,
Math. Department: 980-6590
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Home Page: <http://www.iun.edu/~mathiho/>

Time and location: Monday-Wednesday: 10:00 - 11:15 a.m. Raintree Hall 223,
or 5:30 – 6:45 p.m. Hawthorn Hall 410

TextBook: Bennet, Briggs: Using and Understanding Mathematics (Fourth Edition)



Homework is a crucial part of the course. Most of the odd numbered 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 the quizzes. The homework will NOT be collected and/or graded, but all assigned problems are expected to be completed and pop-up quizzes will be based on the homework assignments. A **ton of homework** will be assigned each week, but additionally, working out **all** odd-numbered questions of each covered section is strongly recommended. In your work you will examine the reasoning behind basic mathematical concepts, explore problems and questions presented from different perspectives, clarify assumptions

made in word problems, and look for connections between the course topics and your own area of interest(s). To receive full credit for a solution on an exam/quiz, it is not enough for you to simply write down the correct answer. You must also show all relevant work in an organized fashion. Include explanatory words or phrases if it is not completely obvious how one step leads to the next, so that any of your classmates would be able to read your solution and understand how you obtained your answer. Avoid disconnected jumbles of symbols and equations. Circle or otherwise clearly indicate your final answer, and include units (meters, seconds, square feet, etc.), if applicable. Many assignments in this course will require that you write an explanation in plain English.

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 an exam and leave a message with the staff.

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 3 credit-hour course) outside the class working on this material.

Grading:	Quizzes (unannounced):	60% (the lowest quiz score will be dropped).
	Midterm:	20%
	Final:	20%

Nature of this class:

Prerequisite: one year of high school algebra or at least a C in M007.

A course designed to convey the flavor and spirit of math, stressing reasoning and comprehension rather than technique. Not preparatory to other courses; explores problem solving, financial management, statistics and related topics that may include the mathematics of politics and elections. This course does not count toward a major in mathematics.

This is a **tentative** schedule that may change 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: <http://www.iun.edu/~mathiho>)

Week	Date	Homework assignment
1	Aug 25	Read Chapter 1! (optional, but strongly recommended) Section 2A: Units: 2, 6, 8, 9, 10, 15 – 19, 21, 22, 26 – 29, 32 – 36, 40, 45, 60, 65, 67 – 70, 75, 81
	Aug 27	Section 2B: Metric System and Conversions: 2, 6, 18 – 28, 33, 37, 41, 43, 59, 61, 65, 68, 79, 80, 83
2	Sep 1	Labor Day Holiday
	Sep 3	Section 2C: Problem solving: 3, 4, 8, 10, 17, 21, 25, 29, 32, 35, 37 – 56
3	Sep 8	Review
	Sep 10	Section 3A: Percentages: 3, 5, 6, 8, 17, 18, 21, 27 – 41 (odd), 51 – 71 (odd), 73 – 76, 77 – 117 (every 4 th problem)
4	Sep 15	<i>Campus Flooded – no classes</i>
	Sep 17	<i>Campus Flooded – no classes</i>
5	Sep 22	<i>Campus Flooded – no classes</i>
	Sep 24	<i>Campus Flooded – no classes</i>
6	Sep 29	Section 3D: CPI: 1 – 23 (odd), 29, 33, 41, 45, 47 – 51
	Oct 1	Section 5A: Statistics: 1 – 9 (odd), 19 – 69 (every 4 th problem) Section 5B: Statistical studies: 1, 3, 7, 11, 17, 21, 25, 29, 33, 39, 45, 47, 51, 55
7	Oct 6	Review
	Oct 8	Section 5C: Statistical tables and graphs: 1 – 9 (odd), 17 – 57 (every 4 th problem)
8	Oct 13	Section 5D: Graphics in the media: 1 – 9 (odd), 19 – 53 (every 4 th problem)
	Oct 15	Section 5E: Correlation and Causality: 1 – 9 (odd), 17 – 35 (odd), 43, 47
9	Oct 20	Review
	Oct 22	Review and Take Home Midterm Exam
10	Oct 27	Section 12A: Voting systems: 1 – 9 (odd), 19 – 49 (odd)
	Oct 29	Review
	Oct 31	Automatic Withdrawal Deadline
11	Nov 3	Section 12B: Theory of Voting: 1 – 9 (odd), 19 – 61 (odd)
	Nov 5	Review
12	Nov 10	Section 12C: Apportionment: 1 – 9 (odd), 19 – 53 (odd)
	Nov 12	Review
13	Nov 17	Section 6A: Central Measures: 1 – 9 (odd), 17 – 49 (every 4 th problem)
	Nov 19	Section 6B: Variation: 1 – 9 (odd), 17 – 35 (odd)
14	Nov 24	Review
	Nov 26	Thanksgiving Recess
15	Dec 1	Review
	Dec 3	Final Exam