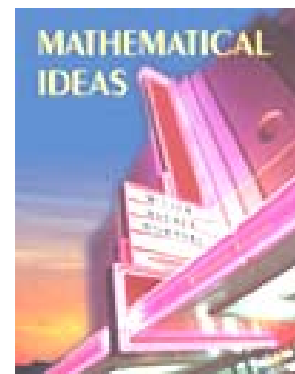


**COURSE:** M100 Basic Mathematics  
**TextBook:** Mathematical Ideas by Miller, Heeren, and Hornsby 11th ed.  
**Instructor:** Dr. Iztok Hozo  
 Hawthorn Hall 455, (219) 980-6980, [ihozo@iun.edu](mailto:ihozo@iun.edu)  
**Math Department:** Hawthorn Hall 445, (219) 980-6590  
**Time/Place:** Monday – Wednesday: 3:50 – 5:25, Hawthorn Hall 221  
**Grading:** Midterm 30%  
 Final 30%  
 Quizzes 40%



**Office Hours:**

MONDAY	WEDNESDAY
10:30-12:00 (by appointment only)	10:30-12:00 (by appointment only)
2:20-3:50 (regular / unless at a meeting)	2:20-3:50 (regular / unless at a meeting)

As a general rule, **NO** make-up quizzes 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 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. 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 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.

**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).

**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.

**Math Lab:** Located at Hawthorn Hall 436 (free tutoring, no appointment is needed).

**OPEN DURING FOLLOWING HOURS:**

Monday	10am-7pm
Tuesday	9am-7pm
Wednesday	10am-7pm
Thursday	9am-7pm
Friday	CLOSED
Saturday	10am-3pm
Sunday	CLOSED

**Scientific Calculator** (keys:  $\ln x$  and  $e^x$ ) will be needed!

Use of cell phone calculators during exams is prohibited.

Recommended is TI-30 (or a TI-83 graphing calculator).

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

MyMathLab code for this section: odefey71158

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.**

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](http://www.iun.edu/~mathiho))

			<b>TENTATIVE SYLLABUS</b>
<b>Week</b>	<b>Date</b>	<b>Coverage</b>	<b>Homework assignment</b>
1	Jan 7	7.1 and 7.2	PRACTICE: <i>P 351</i> : 11,15,19,23,25,29,33,37,39,41, 45,47,51,53,55,57,61,65,67,69,71,75 PRACTICE: <i>P 365</i> : 17,19,23,27,29,31,33,35,37,39,45,53,55,67,71
	Jan 9	7.3: Variation	<i>P 381</i> : 69 – 78
2	Jan 14	7.5	<i>P 405</i> : 13,17,19,21,25,27,33,47,51,55,57,61,63,65,69,75,77,79,83,92,95
	Jan 16	7.7	<i>P 422</i> : 9,13,19,21,23,25,29,31,33,35,51,55,57,61,67
3	Jan 21		<b>Martin Luther King Day – no classes</b>
	Jan 23		Review
4	Jan 28	8.2	<i>P 448</i> : 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
		8.3	<i>P 457</i> : 5,7,8,19,21,33,35,37,45,53,55,57,67,68,72,73
	Jan 30	8.4	<i>P 470</i> : 11,13,15,17,21,27,33,35,37,39,41,45,57,59,61,63
5	Feb 4	8.5	<i>P 482</i> : 9,11,13,15,29,31,33,41,43,45,49,51,57
	Feb 6	8.7	<i>P 509</i> : 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
6	Feb 11		Review
	Feb 13	13.6	<i>P 848</i> : 7,90,15 and Excel HANDOUT problems:1,2
7	Feb 18	Measurement Handout	
	Feb 20		Review
8	Feb 25		Review
	Feb 27		<b>MIDTERM</b>
9	Mar 3	9.3	<i>P 559</i> : 7,11,15,17,19,21,30,33,35,39,55,61,65,67,77,79
		9.5	<i>P 584</i> : 9,11,13,15,17,19,21,25,27,45,47,52
	Mar 5	2.1 2.2	<i>P 56</i> : 9,11,19,25,33,35,59,61,71,75,77 <i>P 63</i> : 7,9,11,13,23,25,27,29,31,33,35,37,45,47,49,53,61,63,69
10	Mar 10		<b>Spring Break – no classes</b>
	Mar 14		
11	Mar 17	2.3	<i>P 75</i> : 7,9,11,13,15,17,19,23,49,53,55,57,71,73,81,83,87,91,95,97,101,105
		2.4	<i>P 83</i> : 1,3,5,9,19,21,23,24,25
	Mar 19		
	Mar 21		<b>Automatic 'W' Deadline</b>
12	Mar 24	11.1	<i>P 678</i> : 1,3,5,7,9,11,13,21,23,34,35
		11.2	<i>P 690</i> : 7,9,11,13,27,29,31,35,37,39,41,45,47,55,57
	Mar 26	12.1	<i>P 731</i> : 1,3,5,7,9,11,13,15,19,21,25,29,51
13	Mar 31	12.2	<i>P 742</i> : 5,9,11,13,15,17,19,27,29
	Apr 2		Review
14	Apr 7	13.2	<i>P 803</i> : 1,3,5,9,17,19,25,27,29,31,43,45,47,51
	Apr 9	13.3	<i>P 814</i> : 3,5,9,11
15	Apr 14	13.4	<i>P 821</i> :1,3,5
	Apr 16	13.5	<i>P 832</i> : 7,9,11,13,15,17,19,27,29,31,33,35,37,45,47,57,59
16	Apr 21		Review
	Apr 23		Review
Finals Week	Apr 30	Wednesday	<b>FINAL EXAM</b>