

Math 101 Core Competency in Mathematics – Spring 2017

Student Information Sheet

Course Objectives: This course helps the student develop the use of mathematics to better understand the world in which we live. It covers elementary skills and facts, logical arguments, abstract reasoning, and problem solving. Competency developed will be helpful in continued education, goal setting, and in personal decision making.

Text: Quantitative Literacy, Second Edition, by B. Crauder, B. Evans, J. Johnson, and A. Noell, W.H. Freeman and Company. 2015

Topics Covered: Linear functions, exponential functions, elementary probability, expected value, statistics, personal finance, logic, Venn diagrams, elementary geometry, and strategies in problem solving.

Prerequisites: Intermediate algebra and geometry.

Course information is available on the course site on blackboard.

Some of the homework assignments and projects are easier using Excel. A good place to start is www.excel-easy.com

Calculators: You will need a hand calculator which can do basic arithmetic, square roots, and other exponents. Either a scientific or a graphing calculator is acceptable. Laptops, calculators that can access the internet, cell phones will NOT be allowed. Calculators with memory may be subject to inspection and erasure of stored materials.

Grades: Your grade will be based on a total of 670 points as follows:

Two 50-minute exams (20 question multiple choice):	200 points
Comprehensive Final Exam (40 question multiple choice):	200 points
Homework (best 8 out of 10 counted):	160 points
Weekly recitation quizzes (best 8 out of 10 counted):	80 points
Daily mini quizzes:	<u>30 points</u>
	670 points

The grading scale will be at least as generous as:

- A: 85% (570 – 670 points)
- B: 75% (500 – 569 points)
- C: 60% (400 – 499 points)
- D: 50% (335 – 399 points)
- F: Below 50%

Make-up Exams: will be given only in the case of a documented illness or serious emergency. All make-up exams will be resolved by the end of the semester.

Make-up Quizzes and Homework: There are no make-up homework or quizzes for any reason. We drop the lowest two quizzes and homework to account for absences. You may turn in homework before the due date.

Final Exam: The comprehensive, mass exam is scheduled for Thursday, May 11, 2017, from 8:00 a.m. to 9:50 a.m. Your instructor will announce the location. Math 101 follows the MASS exam schedule, not the standard exam schedule.

DRC: If you have specific physical, psychiatric, or learning disabilities and require accommodations, please let your instructor know early in the semester so that your learning needs may be appropriately met. You will need to provide documentation of your disability to the DRC (Disability Resource Center). Their office is located in the Health Services Building, 4th floor.

Academic Conduct: Academic honesty and mutual respect (student with student and student with instructor) are expected in this class. Mutual respect includes being on time for class and not leaving early, being prepared to give full attention to class work, turning off phone ringers and not using cell phones during class time and not looking at another student's work during exams. Academic misconduct, as defined by the Student Judicial Code, will not be treated lightly.

Cell Phones: The use of cell phones is prohibited in class. It is considered disruptive behavior and disregarding this rule may result in reduction of your grade, and/or a report of Academic Misconduct.

Changes to the Syllabus: Any changes to the syllabus will be announced during class.

Math 101 Lecture Schedule for Spring 2017

Week	Date	Sections	Homework/Exams
1	1/18	2.1, 2.2, 2.3	
2	1/23	1.4, 1.5	1/27 HW1 due
3	1/30	3.1, 3.2	2/3 HW2 due
4	2/6	3.2, 3.3	2/10 HW3 due
5	2/13	4.1, 4.2, Review	2/17 Exam 1
6	2/20	4.3, 4.4, 4.5	2/24 HW4 due
7	2/27	5.1, 5.2	3/3 HW5 due
8	3/6	5.2, 5.3	3/10 HW6 due
	3/13	Spring Break	
9	3/20	5.4, 5.5	3/24 HW7 due
10	3/27	6.1, 6.2	3/31 HW8 due
11	4/3	6.3, 6.4	4/7 HW9 due
12	4/10	Review	4/14 Exam 2
13	4/17	1.1, 1.2	4/21 HW10 due
14	4/24	1.3	
15	5/1	Review	

May 5 – Reading Day – No Class

May 11 – Final 8:00 – 9:50 a.m.

Homework Assignments – Spring 2017

Homework #1 Due 1/27

Section 2.1 #s 1, 2, 3, 4, 7, 8, 12, 13, 14

Section 2.2 #s 1, 2, 3, 4, 7, 9, 10, 15

Section 1.4 #s 12, 13, 14, 15, 16, 17, 18, 19, 31, 32

Homework #2 Due 2/3

Section 1.5 #s 1, 2, 3, 14, 15

Section 3.1 #s 1, 2, 3, 5, 6, 7, 8

Homework #3 Due 2/10

Section 3.2 #s 1, 3, 5, 7, 16, 17, 18

Section 3.3 #s 1, 2, 6, 7

Homework #4 Due 2/24

Section 4.1 #s 1, 3, 4, 6, 8, 9, 10, 11, 18

Section 4.2 #s 3, 4, 6, 7, 10, 11, 12, 13, 17, 18

Homework #5 Due 3/3

Section 4.3 #s 1, 2, 12, 13, 14, 19, 20, 29, 30

Section 4.4 #s 1, 3, 5, 7, 8, 14, 15, 16, 17

Homework #6 Due 3/10

Section 5.1 #s 1, 3, 4, 14, 15, 17, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34

Section 5.2 #s 6, 7, 8, 9, 20, 21, 22, 23, 24, 25, 26

Homework #7 Due 3/24

Section 5.3 #s 1, 2, 3, 4, 6, 8, 9, 10, 16, 17, 18, 19, 20, 21, 25, 26, 35, 36, 37, 38, 39, 40

Section 5.4 #s 1, 2, 3, 25, 26, 27, 28

Homework #8 **Due 3/31**

Section 5.4 #s 41, 42, 43, 47, 48

Section 5.5 #s 1, 2, 4, 9, 10, 11, 12, 13, 17, 19

Section 6.1 #s 1, 3, 4, 9, 10, 15, 16, 17

Homework #9 **Due 4/7**

Section 6.2 #s 1, 5, 6, 7, 8, 9, 10, 11, 12, 13, 16, 17, 18

Section 6.3 #s 1, 2, 3, 12, 13

Homework #10 **Due 4/21**

Section 6.4 #s 2, 4

Section 1.2 #s 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 38, 40, 41, 42

Section 1.3 #s 4, 8, 9, 10, 11, 12, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 46, 47, 48, 49, 50, 51, 52, 53