

MIDSTATE COLLEGE
411 W. NORTHMOOR RD
PEORIA, IL 61614
(309)692-4092 or (800)251-4299
Winter Quarter 2014
M/W 8:15a – 10:00a

Course: Math 101, Fundamentals of Mathematics

Credit: 4 quarter hours

Method of Delivery: Flex Learning

Course Description: An introduction to basic and fundamental mathematics which includes reading and writing whole numbers; the operations associated with addition, subtraction, multiplication, and division of whole numbers, fractions, mixed numbers, decimals, and percents. The course also covers ratios and proportions, applications for business and consumers, and the metric system. Solving word problems is emphasized throughout the course.

Prerequisite: None listed.

Text(s) & Manual(s): *Basic College Mathematics, Second Edition*

Author(s): Miller, O'Neill, and Hyde

Publisher: McGraw-Hill, 2009. ISBN: 978-0073406114

Material(s): Basic calculator

Requirements for Completing the Course: To successfully complete this course, the student must receive a passing grade as outlined in the Grading Scale and Grading Specifications sections of this syllabus.

Learning Objectives: Upon completion of this course, the student will be able to:

- Solve problems involving whole numbers
- Solve problems involving fractions and mixed numbers
- Solve problems involving decimals
- Solve problems involving percents
- Solve problems involving rates, ratios, and proportions
- Solve basic problems involving percents and their business applications (ex. markups and discounts)
- Apply basic concepts of algebra to simplifying expressions and solving equations

Midstate Grading Scale:

A	90-100
B	80-90
C	70-79
D	60-69
F	0-59

Midstate Plagiarism Policy:

Plagiarism is using another person's words, either by paraphrase or direct quotation, without giving credit to the author(s). Plagiarism can also consist of cutting and pasting material from electronic sources by submitting all or a portion of work for assignment credit. This includes papers, computer programs, music, sculptures, paintings, photographs, etc. authored by another person without explicitly citing the original source(s). These actions violate the trust and honesty expected in academic work. Plagiarism is strictly against the academic policy of Midstate College. Its seriousness requires a measured, forceful response which includes consequences for inappropriate and/or no citation.

In courses containing writing assignments, the college promotes the use of an electronic resource which compares the student's writing against previously submitted papers, journals, periodicals, books, and web pages. Students and instructors can use this service to reduce the incidence of plagiarism. This electronic resource has been found to conform to legal requirements for fair use and student confidentiality. It is able to provide a report to the student indicating the parts of the assignment that match.

Student Success:

The Office of Student Success is available to students seeking tutoring for individual classes or who need assistance with writing assignments. Information is also available on test taking techniques, how to take notes, developing good study skills, etc. Contact student success using the following email: studentsuccess@midstate.edu.

Instructor: Sara Leigh

Office: Room 132

Email: saleigh@midstate.edu

Office Hours: 10a-5p, M-Th in rm 132 – available by appointment

Policies and Procedures: This is a tentative syllabus and outline and is subject to change at the discretion of the instructor.

Flex courses are taught both on-campus and through eLearning. Flex courses offer personalized learning where students can choose each week whether they want to attend on-campus, via eLearning, or both.

- On-campus = If a student attends an on-campus course, he or she will be counted as present.
- eLearning = To be considered in attendance for an eLearning course, the student must participate each week by submitting substantial, gradable work.

GENERAL POLICIES

1. **Homework:** Weekly homework will be assigned on the material covered that week and will be due the following week. The odd problems will be assigned, which have answers in the back of the book – thus you must SHOW WORK to receive credit on the homework!
 - a. **On-Campus** students must turn in their homework in class on Monday mornings.
 - b. **eLearning** students must scan and submit their homework online by 8am Monday morning.
2. **Quizzes & Exams:** Quizzes will be given weekly, covering the material from the previous week. There will be 2 exams given – a midterm and a final. You MUST show work in order to receive credit for a correct answer. Correct answers with no work will receive ZERO points. **No makeups are given for exams** without extreme extenuating circumstances, and I will require documentation.
 - a. **On-Campus** students will take the quiz/exam in class.
 - b. **eLearning** students will take the quiz/exam online, and must scan and submit their quiz work to the 'Quiz Work' dropbox.

3. **Summaries:** Online weekly summaries are meant as an alternative for classroom discussion, and therefore are required for students that did not attend BOTH in-class sessions in a given week. If you attended both classes, you do NOT need to complete the summary – however, if you only attended one (or neither) of the two on-campus sessions, the summary is REQUIRED.
4. **Extra credit:** Students may complete the even numbers of a homework assignment for extra credit. The number of extra credit points awarded is proportional to the number of problems completed, up to a maximum of double points for the homework.

Grading Specifications:

Participation/Attendance:	10%
Homework:	10%
Quizzes:	30%
Exams:	50% (25% for each exam)

WEEK 1

Objectives

Chapter 1, Section 1.1-1.6

NO CLASS MONDAY - ORIENTATION

Assignments

Class goals

Homework (pg. 88-91, 1-77, odds)

WEEK 2

Objectives

Chapter 1, Section 1.7 & 1.8

Chapter 2, Section 2.1-2.3

Assignments

Quiz

Homework (pg. 91-92, 79-97 odds; pg. 157, 1-41 odds)

WEEK 3

Objectives

Chapter 2, Section 2.4-2.6

NO CLASS WEDNESDAY – HAPPY THANKSGIVING!

Assignments

Quiz

Homework (pg. 157-160, 43-97 odds)

WEEK 4

Objectives

Chapter 3, Section 3.1-3.3

Assignments

Quiz

Homework (pg. 213-214, 1-49 odds)

WEEK 5

Objectives

Chapter 3, Section 3.4 & 3.5

Assignments

Quiz

Homework (pg. 214, 51-75 odds)

WEEK 6

Objectives

Take mid-term exam

Assignments

Mid-term Exam

WEEK 7

Objectives

Chapter 4, Section 4.1-4.6

Assignments

Quiz

Homework (pg 283-286, 1-89 odds)

WEEK 8

Objectives

Chapter 5, Section 5.1-5.4

Assignments

Quiz

Homework (pg. 326-329, 1-63 odds)

WEEK 9

Objectives

Chapter 6, Section 6.1-6.6

Assignments

Quiz

Homework (pg. 400-402, 1-87 odds)

WEEK 10

Objectives

Chapter 10, Section 10.2-10.4

Chapter 11, Section 11.1

Assignments

Quiz

Homework (pg. 629, 27-69 odds; pg. 639 13-19 odds; pg. 641 77-95 odds)

WEEK 11

Objectives

Chapter 11, Section 11.2-11.4

Review for Final Exam

Assignments

Quiz

Homework (pg. 681, 9-53 odds)

WEEK 12

Final Exam