

**MIDSTATE COLLEGE**  
**411 W. NORTHMOOR RD**  
**PEORIA, IL 61614**  
**(309)692-4092 or (800)251-4299**  
**Summer Quarter 2014**  
**Th 6:00-9:30 pm**

**Course:** Math 130 Introduction to Algebra

**Credit:** 4 quarter hours

**Method of Delivery:** Classroom, On-Site

**Course Description:** This course is designed for students with one year or less of credit in high school algebra or for students needing a review of algebra. Topics to be covered include a review of calculator operations, real number properties and operations, operations with polynomials, linear equations and inequalities, solutions of linear systems by elimination and substitution, second degree polynomial factoring, exponents, roots, radicals, and graphing lines.

**Prerequisite:** none

**Text(s) & Manual(s):** Introductory Algebra, 5th Edition

**Author(s):** K. Elayn Martin-Gay

**Publisher:** Prentice Hall ISBN # -

**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:

Use properties of real numbers to simplify expressions

Evaluate expressions

Translate sentences into algebraic expressions/equations

Use properties of equality to solve equations

Interpret real-world applications algebraically, and verify the solutions (including but not limited to problems involving mixtures, percents, and geometric applications)

Solve formulas for a specified variable and use formulas to solve applications

Solve and graph the solution set of linear inequalities

Factor polynomials

Interpret information that is given graphically

Graph and find linear equations/inequalities

Explain concepts of linear equations

Solve systems of equations by graphing, substitution, or addition

**Midstate Grading Scale:**

Percentage	Grade
90-100	A
80-89	B

Percentage	Grade
70-79	C
60-69	D
0-59	F

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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 Chris Peck in Room 502 (in person); (309) 692-4092, extension 5023 (phone); [dcpeck@midstate.edu](mailto:dcpeck@midstate.edu) (email).

**Instructor:** Jackie Chalmers

**Office:** N/A

**Email:** [jrchalmers@midstate.edu](mailto:jrchalmers@midstate.edu)

**Office Hours:** Th 5:00-6 pm or by appointment

**Policies and Procedures:** This is a tentative syllabus and outline and is subject to change at the discretion of the instructor. **Quizzes and exams must be taken on the day scheduled.** Under special circumstances a make-up will be allowed within one week, but arrangements must be **made in advance** with the instructor.

1. **Attendance:** Regular attendance is expected. It is the student's responsibility to notify the instructor, preferably in advance, when a class will be missed.
2. **Homework:** Weekly homework will be assigned on the material covered that week and will be due at the beginning of the following class period (I will allow ~20-30 minutes at the beginning of class for homework questions).
3. **Quizzes:** There will be weekly quizzes given. Quizzes will be taken in class and will resemble homework questions from the previous week.
4. **Exams:** There will be 2 exams given – a midterm and a final. Both will be taken in class with a potential take-home portion for extra credit on the midterm.

**Grading Specifications:**

Homework: 200 points (10 assignments at 20 points each.)

Quizzes: 90 points (9 quizzes at 10 points each)

Midterm: 200 points

Final: 200 points

Participation and Attendance: 100 points (10 points given weekly - no points given the night of the midterm and final)

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	Date	Topic	Due
Week 1	5/22	Prealgebra Review	
Week 2	5/29	Chapter 1, Real Numbers and Intro to Algebra	Homework 1
Week 3	6/5	Chapter 2, Equations, Inequalities, and Problem Solving	Homework 2
Week 4	6/12	Chapter 3, Exponents and Polynomials	Homework 3
Week 5	6/19	Chapter 4, Factoring Polynomials	Homework 4
Week 6	6/25	Midterm	Homework 5
Week 7	7/3	Chapter 5, Rational Expressions	Homework 6
Week 8	7/10	Chapter 6, Graphing Equations and Inequalities	Homework 7
Week 9	7/17	Chapter 6, Graphing Equations and Inequalities	Homework 8
Week 10	7/24	Chapter 7, Systems of Equations	Homework 9
Week 11	7/31	Review	Homework 10
Week 12	8/7	Final	