CATALOG DESCRIPTION: This course prepares students for selected college level mathematics courses (MAT 110 or 111) and provides the first of two sequential courses for students requiring College Algebra (MAT 131) or Statistics (MAT 151). This course serves students as an introductory/review of basic elementary algebra skills covering the general topics of number theory, equation solving, inequalities, use of exponents, radical notation, polynomials and factoring.

PREREQUISITE(S): Math 050 (Basic Math) or appropriate placement test score.

COREQUISITE(S): None

CREDITS: 3 cr. eq.   **HOURS**: 4

REQUIRED TEXT(S):

CENGAGE COURSE CODE:

SUPPLEMENTAL MATERIALS:

INSTRUCTOR INFORMATION:

OFFICE HOURS:

CORE COMPETENCIES: The following core competencies are embedded in this curriculum: Communicate effectively in both speech and writing; Apply appropriate mathematical and statistical concepts and operations to interpret data to solve problems; Address an information need by locating, evaluating and effectively using information.

LEARNING ASSESSMENT

Student Learning Outcomes:	Suggested Means of Assessment:
Apply mathematical skills appropriate to an introductory level of algebra	Homework, Quizzes, Tests, Final Exam
Apply appropriate mathematical modeling to analyze and solve applications problems	Homework, Quizzes, Tests, Final Exam
Recognize appropriate solutions in the context of the problem	Homework, Quizzes, Tests, Final Exam
Apply multi-step processes to the simplification or solution of complex mathematical problems	Homework, Quizzes, Tests, Final Exam
Utilize a calculator effectively as a tool to understand concepts and to explore and solve problems	Homework, Quizzes, Tests, Final Exam
Demonstrate comprehension of the topics covered in introductory algebra	Homework, Quizzes, Tests, Final Exam

GRADING SYSTEM:		C+	=	77 < 80
A	=	90 < 100	C	=	70 < 77
B+	=	87 < 90	F=Below 70		

DISABILITY SERVICES STATEMENT: Warren County Community College is committed to providing all students equal access to learning opportunities. Student Services is the campus office that works with students who have disabilities to provide and/or arrange reasonable accommodations. Students who have, or think they may have, a disability (e.g. mental health, learning, vision, hearing, physical or systemic), are invited to contact Student Services to arrange a confidential discussion at (908) 835-2300 or by email at StudentServices@Warren.edu as soon as possible. Students registered for Disability Services with Student Services, who have requested accommodations for the current semester will be provided with an electronic letter detailing individual accommodations and are encouraged to contact the instructor early in the semester to discuss accommodations outlined in their letter.

INSTRUCTIONAL SUPPORT CENTER: The Instructional Support Center (ISC), located in Room 105 across from the library, provides academic support at no cost to WCCC students and is available for courses in which they are currently enrolled. The ISC is staffed with trained professional and peer tutors who are ready to help you understand and succeed. For scheduling or further information, visit the ISC in person, online at http://www.warren.edu/tutoring/ or by telephone at (908)835-2354.

STATEMENT AND POLICY ON CHEATING, PLAGIARISM AND ACADEMIC DISHONESTY: Students are required to perform all the work specified by the instructor, and are responsible for the content and integrity of all academic work submitted. A violation of academic integrity will occur if a student: (1) knowingly represents work of others as one's own, (2) uses or obtains unauthorized assistance in any academic work, (3) gives fraudulent assistance to another student, or (4) furnishes false information or other misuse of college documents.

In cases of suspected violation of academic integrity, the incident is to be reported to the Office of Academics. A student found guilty of violating the rule of academic integrity by the Vice President of Academics will be considered to have failed in personal obligation to the College; such failure will be subject to disciplinary action by the College. Unless otherwise notified, the instructor will allow students who are pending disciplinary action to attend class.

REQUIRED FORMAT FOR RESEARCH PAPERS: Research papers written for any Warren County Community College class must conform to the required documentation style. Papers written for humanities (and some social science) classes will follow the most recent edition of the Modern Language Association (MLA) in-text citation and bibliographic methods. Social science and science papers will require the use of the most recent edition of the American Psychological Association (APA) in-text citation and bibliographic methods.

Please consult with your instructor regarding the correct documentation style to use in his/her class.

ATTENDANCE POLICY: Students are expected to attend all class sessions of courses in which they are enrolled and are responsible for all material presented in class and all homework assignments.

Grades are based on the quality of work completed in meeting the requirements for a particular course, as stated in the course syllabus and catalog description.

Excessive absence may be considered sufficient cause for dismissal from class by an instructor or other appropriate college staff member. Any decision to exclude a student from class or the College due to excessive absence shall be subject to review by the President in accordance with established procedures. Students who have not attended class are not entitled to a refund of tuition.

WCCC HAYTAIAN & MAIER LIBRARY: (908) 835-2336   http://warren.libguides.com

Library Hours

Monday-Thursday 8am-8pm

Friday 8am-3pm

Check the Academic Calendar for specific holiday dates. Exceptions may apply during breaks and summer sessions. Any changes to the Library's hours are posted on the Library's web page and near the Library doors.

- **Passwords and Log-Ins-**The Library is responsible for resetting passwords for your Network account (email, computers, Wi-Fi, library resources, and printing). This cannot be reset over the phone. Please stop by the Library for help.
- **College IDs-**College IDs are required for all students. The Library is responsible for producing all ID cards. To get an ID card you must bring to the Library a current copy of your class schedule and another form of ID. Your student ID is also your library card and is needed to check materials out of the Library. Your first ID card is free and replacement cards are issued at a cost to the student.
- **Inter-Library Loan (ILL)-**The Library participates in a nation-wide inter-library loan program which is available free to all students and faculty. You can either submit ILL requests via the Internet (form available on the Library's web page) or in person at the circulation desk.

TOPICAL OUTLINE:

A. PREALGEBRA REVIEW
   1. Introduction to Integers
   2. Add/subtract Integers
   3. Multiply/Divide Integers
   4. Exponents and Order of Operations
   5. Add/Subtract Rational Numbers
   6. Multiply/Divide Rational Numbers
B. VARIABLE EXPRESSIONS
   1. Evaluating Variable Expressions
   2. Simplifying Variable Expressions
   3. Translating Verbal Expressions Into variable Expressions
C. SOLVING EQUATIONS

   1. Introduction To Equations ($x + a = b$, $ax = b$)
   2. $Ax + B = C$ and Formulas
   3. $Ax + B = Cx + D$ and Distributing
   4. Translating Sentences Into Equations (Integer Problems)
   5. Geometry Problems
   6. Mixture and Uniform Motion Problems
   7.

D. POLYNOMIALS
   1. Addition/Subtraction of Polynomials
   2. Multiply Monomials
   3. Multiply Polynomials
   4. Integer Exponents and Scientific Notation
   5. Division of Polynomials by a Monomial

E. FACTORING
1. GCF, Grouping
2. Factoring $x^2 + bx + c$
3. Factoring $ax^2 + bx + c$
4. Special Factoring
5. Solving Equations by Factoring

F. RATIONAL EXPRESSIONS
1. Multiply/Divide Rational Expressions
2. Find LCD
3. Add/Subtract Rational Expressions
4. Solve Equations Containing Fractions
5. Ratio/Proportion
6. Literal Equations

G. LINEAR EQUATIONS IN TWO VARIABLES
1. Rectangular Coordinate System
2. Linear Equations in Two Variables
3. Intercepts/Slopes of Lines
4. Equations of Lines

H. INEQUALITIES
1. Sets
2. Addition/Multiplication of Inequalities
3. General Inequalities
4. Graph Linear Inequalities

I. RADICAL EXPRESSIONS
1. Simplify Radicals

GRADING METHODS:

ITINERARY: