# Outline of Instruction

<table>
<thead>
<tr>
<th>Division:</th>
<th>Science/Mathematics</th>
<th>Area:</th>
<th>Mathematics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Number:</td>
<td>MATH 150</td>
<td>Course Name:</td>
<td>Beginning Algebra</td>
</tr>
<tr>
<td>Prerequisite:</td>
<td>RDG 090 and ENGL 090 and MATH 090 or qualifying scores on ACT or COMPASS tests</td>
<td></td>
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<tr>
<td>Corequisite:</td>
<td>NONE</td>
<td></td>
<td></td>
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<tr>
<td>Hours Required:</td>
<td>Class: 60</td>
<td>Lab:</td>
<td>0</td>
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<tr>
<td></td>
<td>Credits: 4 (four)</td>
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## Course Description/Purpose

This course covers fundamental concepts of algebra such as symbols, signed numbers, rational numbers, factoring and solutions to linear equations. It also includes solutions of rational equations, quadratic equations and systems of equations. This course is intended for students who have had no high school algebra or feel a need to review elementary algebra. Internet access is mandatory.

## Major Units

- Real Numbers
- Polynomials
- Rational Expressions
- Quadratic Equations
- Systems of Linear Equations

## Educational/Course Outcomes

Student learning will be assessed by a variety of methods, including, but not limited to, quizzes and tests, journals, essays, papers, projects, laboratory/clinical exercises and examinations, presentations, simulations, portfolios, homework assignments, and instructor observations.

- **Cognitive**
  - Each student will be expected to *Identify/Recognize* . . .
    - scientific notation;
    - rational exponents;
    - quadratic formula.

- **Performance**
  - Each student will be expected to *Demonstrate/Practice* . . .
    - basic operations with real numbers;
    - solve linear equations;
    - solve rational equations;
    - solve quadratic equations.

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