# Course Syllabus, Mth 070-Elementary Algebra

**Fall, 2006**  
Chemeketa Community College  
4000 Lancaster Drive NE, Salem, OR 97309

<table>
<thead>
<tr>
<th>CRN:</th>
<th>30468</th>
<th>Location: Building 3 Room 101</th>
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<tbody>
<tr>
<td>Instructor:</td>
<td>Chris Nord</td>
<td>Time: MTWF 9:30-10:20</td>
</tr>
<tr>
<td>Office Hrs:</td>
<td>MWF From 8:30 until 9:20, TR From 11:30 until 12:20</td>
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</tbody>
</table>
| Contact:  | Phone: (503) 399-6079 (on campus just dial 6079)  
e-mail: cnord1@chemeketa.edu  
website: [http://newterra.chemeketa.edu/faculty/norc/math70](http://newterra.chemeketa.edu/faculty/norc/math70) |
| Prerequisite: | Grade of C or higher in MTH 060 or equivalent |

## Required Materials:
- Only one text is required. You may choose either  
or *Introductory Algebra: Equations and Graphs, Yoshiwara & Yoshiwara, ISBN 0534358241*  
- Graphing calculator (TI 83 used in classroom demonstrations)

**Calculator:** A graphing calculator is required for this course. Texas Instrument calculator model TI 83 is used for class demonstrations. Calculators may be used for all course work! Only TI 82, 83, 84, 85, 85 and 89 calculators are supported.

**Course Features:** This course is for students with a background in solving linear equations and elementary graphing. It covers linear equations, linear systems, linear inequalities and quadratic equations in verbal, numerical, graphical and symbolic forms. It also covers negative exponents, scientific notation and dimensional analysis. These topics will be explored with a graphing calculator as well as traditional approaches.

**Upon successful completion of this course, students will be able to:**
1. Create mathematical models of abstract and real world situations using linear equations, linear systems, linear inequalities, quadratic equations and square root equations.  
2. Use inductive reasoning to develop mathematical conjectures involving linear equations, linear systems, linear inequalities, quadratic equations and square root equations. Use deductive reasoning to verify and apply mathematical arguments involving these algebraic concepts. Be able to distinguish between the concepts of inductive and deductive reasoning.  
3. Use mathematical problem solving techniques involving linear equations, linear systems, linear inequalities, quadratic equations and square root equations. Techniques include the use of tabular, graphical, symbolic and narrative representations.  
4. Make mathematical connections to, and solve problems from, other disciplines involving Linear equations, linear systems, linear inequalities, quadratic equations and square root equations.  
5. Use oral and written skills to communicate about linear equations, linear systems, linear inequalities, quadratic equations and square root equations.  
6. Use appropriate technology to enhance mathematical thinking and understanding, to solve mathematical problems involving linear equations, linear systems, linear inequalities, quadratic equations and square root equations, and judge the reasonableness of results.
**Tutors:** There are tutors available for drop-in help in the Tutoring Center, second floor in Building 2 and you are encouraged to take advantage of this resource.

**Collaborative Learning:** Students are encouraged to discuss and investigate mathematics collaboratively. All course work may be done collaboratively, except individual exams.

**Homework:** 25 homework assignments will be given throughout the course of the term. Homework assignments will not be collected, but there will be 10 homework quizzes (look for HWQ on the schedule) given throughout the term. These will be short (2 or 3 questions) quizzes which will test your understanding of recent homework assignments. Each homework quiz will be worth 10 points and I will count your highest 9 quizzes.

**Exams:** You may bring one 3” by 5” note card with hand written notes (both sides) to each test. For the final, which is required and will be comprehensive, you may bring one page of notes (8½” by 11” both sides). If you miss an exam, then your final exam percentage score will be used to count for the missed exam. The policy is that **exams cannot be made up nor retaken.** If you feel that an exception should be made to the policy, see me ahead of time. Tests are **not** graded on a curve.

**Academic Honesty:** It is my expectation and the expectation of Chemeketa Community College that all students will adhere to the highest standards of academic honesty. Cheating will result in failure of the assignment and may result in stiffer penalties, including expulsion from Chemeketa. Every incident of cheating will be reported to the Dean of Student Development and Learning Resources.

**Evaluation:** Your grade will be based on the following point scale, however, I reserve the right to use other factors in determining your grade.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
<th>Points</th>
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<tbody>
<tr>
<td>A</td>
<td>From 90 to 100</td>
<td>300 pts</td>
</tr>
<tr>
<td>B</td>
<td>From 80 to 89</td>
<td>300 pts</td>
</tr>
<tr>
<td>C</td>
<td>From 70 to 79</td>
<td>290 pts</td>
</tr>
<tr>
<td>D</td>
<td>From 60 to 69</td>
<td>280 pts</td>
</tr>
<tr>
<td>F</td>
<td>Below 60</td>
<td>270 pts</td>
</tr>
<tr>
<td>N</td>
<td>Insufficient information</td>
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Incomplete: For the possibility of an incomplete, you must have completed all work to date satisfactorily and have only to take the final exam and possibly the last unit test. You must also discuss your situation with me prior to the date of the final exam.

**Ways to Optimize Your Success in this Course:**

- Attend class every day and do homework on a daily basis (2-3 hours outside class for each hour in class).
- Keep detailed notes, keep them organized, and refer to them when you study.
- Write out the steps for your practice problems and keep them organized for reference.
- **Read the textbook** before and after class.
- Study outside class with a group. Use the tutoring center.
- **ASK** questions as soon as you have them. Don’t wait!!!!
- **YOU** are responsible for your learning. Your instructor facilitates your learning.

It is the mission of Chemeketa Community College to inspire individuals to achieve intellectual growth, personal fulfillment and career success in a respectful learning environment. Each individual is a contributor to this environment. Care and respect of others will be fostered in this classroom, in an effort to inspire each individual to reach their full potential as learners, thinkers and dynamic contributors to this class, this college, and the larger community.