

**Math 080 Course Syllabus
Sandhills Community College
Department of Mathematics**

Course:	MAT 080 Intermediate Algebra
Credit Hours:	4
Lecture Hours:	3 per week
Lab Hours:	2 per week
Prerequisite:	High School Algebra I or equivalent and satisfactory scores on the placement test, or MAT 070 (Introductory Algebra) with a grade of C or better.
Corequisite:	Red 080
Course Description:	This course continues the study of algebraic concepts with emphasis on applications. Topics include factoring; rational expressions; rational exponents; rational, radical, and quadratic equations; systems of equations; inequalities; graphing; functions; variations; complex numbers; and elements of geometry. Upon completion, students should be able to apply the above concepts in problem solving using appropriate technology.
Text: (Subject to change)	<u>Intermediate Algebra</u> , 10th Edition, Bittinger, Marvin L. Addison-Wesley Longman, Inc., 2007 ISBN: 0-321-31908-7
Goals and objectives:	<p>When the course is completed, the student should be able to model and solve application problems while learning to</p> <ol style="list-style-type: none"> 1. Factor polynomials. 2. Identify, evaluate and simplify rational expressions. 3. Define rational exponents and evaluate expressions involving rational exponents. 4. Solve rational, radical and polynomial equations (numerically, analytically, and graphically). 5. Identify and use functions (verbally, numerically, graphically, and symbolically). 6. Solve systems of equations 7. Define and solve direct, inverse, and joint variation 8. Perform basic operations with complex numbers 9. Apply topics of analytic geometry including: 10. Use appropriate technology <p>The above list of competencies should comprise 80% of the course content. The remaining 20% of the course content may be used for additional instruction/enrichment in the above competencies</p>
General Education:	Students who are successful in this course will improve in the following general education areas: reading, oral communication, mathematical skills, problem solving, critical thinking, and cooperating with others.

Course Requirements:	Sharp Scientific calculator
Grading Scale:	<p>Grading scale:</p> <p>92 - 100 = A</p> <p>84 - 91 = B</p> <p>76 - 83 = C</p> <p>70 - 75 = D</p> <p>Less than 70 = F</p> <p>You must earn a C (76%) or higher is a requirement for progress to the next math course having MAT 080 as a prerequisite.</p>