A quantitative reasoning course combining elements of algebra, geometry, and trigonometry grounded in real-world context. Topics include algebraic expressions, linear equations, quadratic equations, algebraic word problems, dimensional analysis, scientific notation, problem solving strategies, uncertainty, mathematical modeling, and communicating mathematical ideas.
D. LEARNING OUTCOMES (General)
1. Solve problems by applying a multi-step systematic process for algebraic word problems.
2. Solve for an indicated variable in literal equations.
3. Solve problems common to a variety of science and technological fields using unit- and dimensional-analysis.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
Goal 04 - Mathematical/Logical Reasoning
1. Illustrate historical and contemporary applications of mathematical/logical systems.
2. Clearly express mathematical/logical ideas in writing.
3. Explain what constitutes a valid mathematical/logical argument (proof).
4. Apply higher-order problem-solving and/or modeling strategies.

F. LEARNER OUTCOMES ASSESSMENT
As noted on course syllabus

G. SPECIAL INFORMATION
None noted