MAT 200 – Precalculus

Course Description

Reviews algebraic techniques. Includes selected advanced topics such as matrices and determinants as techniques for solving linear systems in three or more variables, elementary concepts of analytic geometry, and logarithms. Emphasizes business-related word problems.

Instructional Materials

Strayer University, Saltzer, B. (Ed.) (2006). *MAT 200: Precalculus: Custom edition*. Boston, MA: Pearson Custom Publishing.

Course Learning Outcomes

1. Solve problems involving linear equations, linear inequalities, and systems of linear equations.
2. Develop problem-solving skills by applying mathematical concepts to real-world problems and applications.
3. Graph and operate on conic sections.
4. Solve and graph linear, quadratic, exponential, and logarithmic functions.
5. Use matrices and determinants to solve systems of linear equations in two and three variables.
6. Evaluate trigonometric and inverse trigonometric functions.
7. Use technology and information resources to research issues in precalculus.
8. Write clearly and concisely about precalculus using proper writing mechanics.