

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: EGR 246

Credits: 3

Course Title: Mechanics of Materials

Course Description: Teaches concepts of stress, strain, deformation, internal equilibrium, and basic properties of engineering materials. Analyses axial loads, torsion, bending, shear, and combined loading. Studies stress transformation and principle stresses, column analysis, and energy principles. Prerequisite: EGR 140. Lecture 3 hours per week.