

## Quality Engineering Tech (QENT)

### **QENT 1200 Quality Concepts and Techniques**

**2 Credits**

*Prerequisite: MATH 1180 or MATH 1400 or MATH 1650.*

This course introduces the basic concepts, tools, and techniques of quality control. Students will be introduced to the qualitative and quantitative concepts of total quality management (TQM), including Six Sigma. They will learn the fundamentals of statistics and probability including measures of central tendency and dispersion, normality, continuous and discrete probability distributions. Statistical process control (SPC), gage error studies, control charting techniques, and acceptance sampling methods will be studied to help determine if a manufacturing process is in control.

(3 contact hours: 1 lecture, 2 lab)