

**MEEM 4650/5650****QUALITY ENGINEERING****Fall 2005**

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Topics

Introduction  
Historical View of Quality  
Total Quality Management (TQM)  
Deming's 14 Points  
Taguchi's View of Quality  
Statistical Fundamentals  
Conceptual Framework for Statistical Process Control  
Statistical Basis for Shewhart Control Charts  
Construction and Interpretation of Shewhart Control Charts  
Computer Workshops  
Rational Sampling  
Process Capability  
Control Charts for Individuals  
Control Charts for Attribute Data  
Case Studies  
Other topics for graduate credit

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Text: *Statistical Quality Design and Control, Contemporary Concepts and Methods*, Macmillan,  
Richard E. DeVor, T. H. "Phil" Chang, John W. Sutherland

UG Grade Determination (Grad. %):  
25% Homework (20%)  
15% Computer Workshops (10%)  
25% Midterm Exam (25%)  
35% Final (35%)  
Extra Assignments (10%)

Grade Breakdown:  
Class GPA - approx. 3.0  
about 2/3 A's and B's

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