Course Details: ME-7533 Numerical Methods in Applied Mechanics
spring 2015
http://me.lsu.edu/~ram

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Office Hours: Tuesday 10:30-11:30
Thursday 10:30-11:30

Content: Matrix analysis applicable to numerical methods in engineering
including matrix decompositions such as SVD, QR and LU. Classical
topics in numerical analysis including: least squares approximation,
numerical differentiation and integration, interpolation, parameter
identification and data fitting, fundamental of finite elements.

References: G.H. Golub and C.F. Van Loan, Matrix Computations
R. Hamming, Numerical Methods for Scientists and Engineers

Assessment: 20% Assignments
30% Mid-term test
50% Final Examination

Grading: A (85-100), B (75-84), C (65-74), D (55-64), F (0-54)
The bar for the various grades may be lower to compensate for
challenging test(s)