

# Joint Engineering Mathematics

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## Courses

### ***J E MATH 3170 Engineering Mathematics: 4 semester hours***

Prerequisites: MATH 2020 or equivalent, and Electrical Engineering or Mechanical Engineering major. The Laplace transform and applications; series solutions of differential equations, Bessel's equation, Legendre's equation, special functions; matrices, eigenvalues, and eigenfunctions; Vector analysis and applications; boundary value problems and spectral representation; Fourier series and Fourier integrals; solution of partial differential equations of mathematical physics.