

MECH 605. APPLIED MATHEMATICS 1.

Credits: 4

Offered by: Mechanical Engineering (Graduate Studies)

Terms offered: Fall 2025

[View offerings for Fall 2025 in Visual Schedule Builder.](#)

Description

Tensor Analysis, Gauss and Stokes Theorems, Complex Functions, Laplace and Fourier transforms, Linear Algebra, Initial and Boundary Value Problems for ODE's, Partial Differential Equations including elliptic, parabolic and hyperbolic, Sturm-Liouville theory, Eigenvalue problems, Galerkin Method, Green's Functions and transform methods.

Most students use Visual Schedule Builder (VSB) to organize their schedules. VSB helps you plan class schedules, travel time, and more.

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