PHYS-301 : Mathematical Methods in Physics I

Complex exponential functions, vector and partial derivatives. Applications of integration in physics, including expectation values and line integrals. Vector and matrix operations, including dot and cross products, determinants, eigenvalues and eigenvectors. Mathematical software (eg, Mathematica) is incorporated. Prerequisite: PHYS-221, MATH-132 or concurrent enrollment in MATH-132

Credits 2

Prerequisite Courses

PHYS-221

Corequisites

MATH 132

Term Offered

Spring Only

Session Cycle

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Grade Scheme

BC