

Course calendar
PHYS 6350: "Mathematical Physics I"
Fall 2025

Topics: (tentative list)

Review of vector calculus

Linear algebra, eigenvalue/eigenvector problem

Complex analysis

Fourier analysis, Fourier transforms

Boundary value problems: differential operators, Green's functions, orthonormal functions

Probability and statistical inference

Important dates:

Mon, Sep 2, 2025: 1st day of classes

Thu, Fri Nov 27, 28, 2025: Thanksgiving holiday (no classes)

Thu, Dec 11, 2025: study day, no classes

Fri, Dec 12 -Thu, Dec 18, 2025: Final exam week

Problem workbook / Exam dates:

PWB, Exam 1: Tues, Thu, Sep 23, 25, 2025

PWB, Exam 2: Tues, Thu, Oct 14, 16, 2025

PWB, Exam 3: Tue, Thu Nov 4, 6, 2025

PWB, Exam 4: Tue, Thu Dec 2, 4, 2025

Oral final: during final exam week