

VILLANOVA UNIVERSITY
Physics Department

PHYSICS 4202
MATHEMATICAL PHYSICS II

FALL 2011
M. BESSON

Reference Texts: *Mathematical Methods in the Physical Sciences*, 3rd ed., by Mary L. Boas.

Exams: There will be two exams of equal weight (100 points), and a final exam worth 200 points.

Assignments will be made periodically. The total number of points on all the assignments will be worth the equivalent of one exam (100 points).

Topics:

Calculus of variations, Lagrange multipliers

Complex analysis

Partial differential equations, Green's functions, boundary-value problems