

# Course Schedule - Spring 2008

## Mathematics

442 **Intro Partial Diff Equations** credit: 3 or 4 hours.

Introduces partial differential equations, emphasizing the wave, diffusion and potential (Laplace) equations. Focuses on understanding the physical meaning and mathematical properties of solutions of partial differential equations. Includes fundamental solutions and transform methods for problems on the line, as well as separation of variables using orthogonal series for problems in regions with boundary. Covers convergence of Fourier series in detail. 4 hours of credit requires approval of the instructor and completion of additional work of substance. Prerequisite: One of MATH 284, MATH 285, MATH 286, MATH 441.

CRN	Type	Section	Time	Days	Location	Instructor
38018	lecture-discussion	E13	01:00 PM - 01:50 PM	MWF	room 345 Altgeld Hall	Laugesen, R
38018: 3 hours Open to both undergraduate and graduate students.						
38019	lecture-discussion	E14	01:00 PM - 01:50 PM	MWF	room 345 Altgeld Hall	Laugesen, R
38019: 4 hours Instructor Approval Required Instructor approval forms available in 313 Altgeld Hall.						