MAGNETIC RESONANCE AND ITS APPLICATIONS TO CHEMISTRY

COURSE #: CHEM 751 (3 credits)

QUARTER: SPRING 2004

SCOPE: Basic Principles of Electron Spin Resonance and Nuclear Magnetic Resonance. The Analysis of ESR and NMR Spectra of Liquids. Interpretation of Nuclear Hyperfine Interactions: Chemical Shifts and Spin-Spin Couplings. Spin Relaxation and Time Dependent Phenomena. Double Resonance, Overhauser Effect.

INSTRUCTOR:
Professor Amar Nath
Department of Chemistry
Room #605, Disque Hall
Phone: (215) 895-2648
Email: amar.nath@drexel.edu

TEXT: (1) "*NMR and Chemistry*" by J.W. Akitt and Mann

Supplementary: **2)**"*Nuclear Magnetic Resonance*" by P.J. Hore