Syllabus **PHYSICS 002B** **Spring 2012**

Readings Texts and Notes : Gribbin(G), Lindley(L), Boccio(B)

Week	**Readings and Topics**
01(01/16)	B01, G01, G02, L(act I) - Classical Breakdown
02(01/23)	B02-B03, G03, G04, L(Intermission) - Quantum Thoughts and Ideas
03(01/30)	B03, B04, G05 - More Experiments and Start of Mathematics
04(02/06)	B05, G06 - Mathematics
05(02/13)	B06, G07 - Quantum States and Postulates
06(02/20)	B06 - Formalism and experiments
07(02/27)	B07, B08 - Polarization and Light, Collapse
Spring Break	
08(03/12)	B09 - More Formalism
09(03/19)	B12, G08 - Uncertainty
10(03/26)	B13, G09, L(Act II) - Entanglement, EPR and Bell - I
11(04/02)	B14, B15, G10, L(Act III) - Entanglement, EPR and Bell - II, Quantum Pots and Erasers
12(04/09)	B16 - Interpretations
13(04/16)	B17, B18, G11 - Many-Worlds and Final Thoughts
14(04/23)	Are Quanta Real? Perform a Play