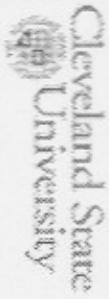


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List Of Program Goals

Department or Unit Name: Physics

Individual Completing Form: Profs. Paul D. Hambourger (B.S./B.A.), James Lock (M.S.)

Date: 12/12/2003, reviewed Nov 2004 - no changes

Program Name:	B.S./B.A. In Physics
Goal # 1:	Know the basic physical concepts and laws of Mechanics, Electromagnetism and Optics, Thermal and Statistical Physics, and Quantum Physics. Be able to apply those concepts and laws to the description of concrete problems. Be able to present, in a coherent manner in written format, an analysis of a scientific topic.
Goal # 2:	Have logical, analytical and computational skills to mathematically model physical problems. Logical skills refer for example to discerning cause from effect. Analytical skills are algebra, geometry, trigonometry, and calculus. Computational skills include programming in at least one language (e.g. FORTRAN, Pascal, C, C++) and use of at least one mathematical package (e.g. Mathematica, Maple).
Goal # 3:	Have laboratory skills to set up an experiment and to acquire and analyze data.
Program Name:	M.S. In Physics
Goal # 1:	Prepare M.S. student for employment as a medical physicist
Goal # 2:	Prepare M.S. students for employment as an optical physicist
Goal # 3:	Upgrade the knowledge of scientists and engineers in the greater Cleveland area in optical measurement techniques
Program Name:	
Goal # :	

