Course Outcome Guide (COG)

Course:	PHYS251: University Physics	Credits:	5	Instructor:	Lanc	e Olson	
Course Description:	Pre-requisite: Calculus I or placement examination. A calculus based physics course covering the basic principles of Waves, Magnetism, Optic. Co-requisite: PHYS 252 Lab						
Concepts and Issues	Process Skills	Assessment Tasks		Intended Outcomes			
				Course		General Education or Program	Institution
*Oscillatory motion *Wave Motion *Sound waves *Super position and Standing waves *Electric fields *Gauss's Law *Electric potential *Capacitance and Dielectrics *Current and Resistance *Direct-Current circuits *Magnetic fields *Faraday's law *Inductance *AC currents *DC currents *Ray optics *Image formation *Wave optics *Intro to modern Physics	*Express Physics problems in Laymen's terms using drawings, vectors and diagrams when applicable. *Use Polya's problem solving strategies to set up and solve Physics problems. * Use an understanding of mathematics, along with physics principles to effectively solve problems. *Apply knowledge of subject material to explain natural physical processes.	*Participate in class discussions and acceptable skill les concept and proce acquire data in ord explore physical peffectively communesults.	etivities owledge of mations eptable skill and process. ok readings, olems (both emonstrating wels of ss. other to crinciples and unicate et and test	*Students will apply physics principles to world situations and/of future academic purse. *Students will work effectively within a collaborative group to achieve a distinct rese. *Students will be able. Integrate learning the with laboratory performance.	or uits. o ult. e to	Students will use reasoning skills to analyze and solve problems.	Students will use reasoning skills to analyze and solve problems.