Physics - Student Learning Outcomes

PHYS 200	General Physics I	1. Solve one-dimensional and two-dimensional motion problems involving position, velocity, and acceleration. (ILO2, ILO4)
		2. Solve problems (using algebra, calculus, and trigonometry as tools) involving Newton?s Laws and their applications including friction. (ILO2, ILO4)
		3. Solve problems involving potential and kinetic energies and conservation of energy. (ILO2, ILO4)
		4. Solve problems involving impulse, momentum, and conservation of momentum. (ILO2, ILO4)
		5. Solve problems involving work, energy, and power. (ILO2, ILO4)
PHYS 202	General Physics II	1. Solve problems involving Gauss' Law. (ILO2, ILO4)
		2. Solve problems involving capacitors. (ILO2, ILO4)
		3. Solve problems involving magnetic fields in and near conductors, and the motion of charged particles in a magnetic field. (ILO2, ILO4)
		4. Solve problems involving EMF, resistor combinations, Kirchoff's Law. (ILO2, ILO4)
		5. Solve problems involving Faraday's and Lenz's Laws, and induced EMFs. (ILO2, ILO4)
PHYS 204	General Physics III	1. Solve problems involving interference, reflection, transmission of transverse waves, and Doppler Effect. (ILO2)
		2. Solve problems involving plane mirrors, thin lenses, and spherical mirrors. (ILO2)
		3. Solve polarization, reflection, refraction, and diffraction problems. (ILO2)
		4. Solve single and double slit interference problems. (ILO2)
		5. Solve problems involving First and Second Laws of Thermodynamics problems. (ILO2)