



## H-Form ECE 220

A Brief Course Description			
College	Engineering		
Department/ Program	Electrical Engineering – Communication + Electronics Engineering		
Course Name	Electromagnetics		
Course Code	ECE 220		
Year / Level	3/6		
Credit Hours	4		
Contact Hours	Lecture: 3	Lab/Tutorial: 2	Training: 0
Language	English		
Track	<input type="checkbox"/> University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Program		
	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Elective		
Pre-requisites Course	ECE 210 / ECE 202		
Co-Requests	-		
Course Description	Review of vector algebra and vector Calculus. Electrostatics: Coulomb's law, Gauss's law, electric potential, Poisson's and Laplace's equation, image method, resistance and capacitance. Magnetostatics: Biot-Savart law, Ampere's law, Magnetic forces, magnetic boundary conditions and inductance.		