Course Planning Spreadsheet: Course_____ Semester_____

Main topic	Subtopics	Math and other skills needed	General skills to be taught (not content but specific skills to use tackling content)	Other notes: Lab, demos, readings, active learning, HW

Example Course Planning Spreadsheet Example: Course_____ Semester_____

Main topic	Subtopics	Math and other skills needed	General skills to be taught (not content but specific skills to use tackling content)	Other notes: Lab, demos, readings, active learning, HW
Electrostatics 0.3 of course	Charges, conductors, insulators, background			Electroscope demo – action at a distance, charging by induction
	Coulombs law, electric forces	calculus	Superposition to solve problems	Superposition activity
	Gauss' Law	Vector calculus	Symmetry to simplify problems	Bring colored chalk to show structure of examples
	Electric Potential	divergence		Van der Graaf generator demo
	Capacitors			Capacitor energy storage bang
Circuit 0.1	Series, parallel, Kirchoff,	Algebra Linear algebra? Calculator matrix solution?	Error checking	Group hard algebraic problem: how to check work
	Capacitors, resistors, inductors,		Conceptual checks of answers Conceptual understanding	
Magnetism		curl		