PHYS118W : The Physics Raspberry Pi

The Physics of Raspberry Pi explains the physics of Raspberry Pi: that's Pi, not Pie. Raspberry Pie is a wonderful dessert; Raspberry Pi is a device used to connect or control just about anything. The course starts with an introduction to the physics of electricity and waves. It proceeds with an explanation of how we use these forces to communicate with machines and ultimately with each other. It concludes by covering the Internet of Things. Topics include basic electricity and circuits, waves and signals, micro-controllers and/or single-board computers, and the use of sensors and other components to communicate. Students may use actual Raspberry Pi's or its cousin, the Arduino. If lucky, they might even find an actual Raspberry Pie.
Lecture Hours 2

Lab Hours 2 **Credits** 3