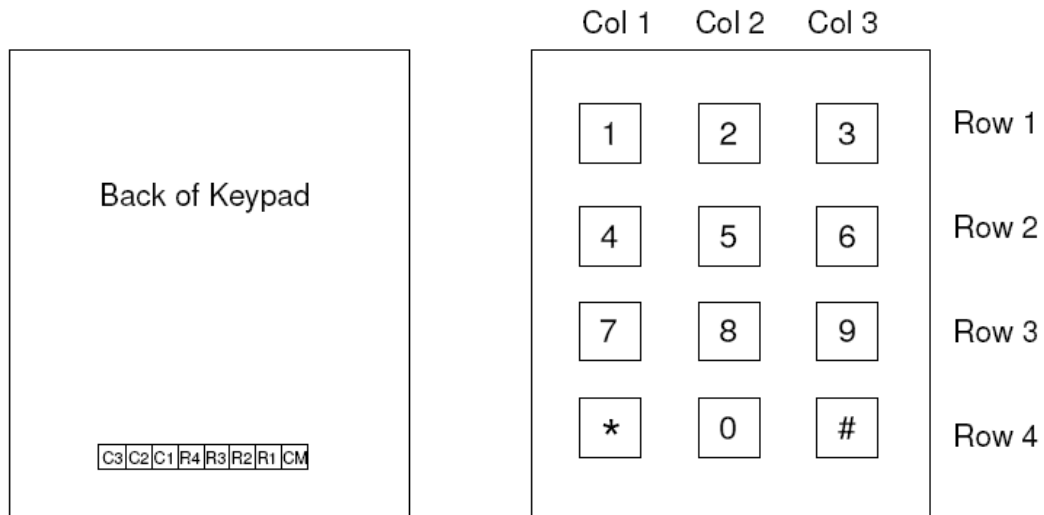A 12 key keypad will provide the input to the 68HC11 and allow the user to enter the time and date. The keypad is laid out in a matrix style and when a button is pressed a row is connected to a column. The keypad pin-out is shown in the diagram below. (NOTE: This should be verified, identical appearance parts may not necessarily mean identical pin-out)

The Keypad can be connected to the 68HC11 directly or via a keypad scanner/decoder. The keypad decoder device is the 74C922, which is included in the ECE447 kit. The datasheet for the device can be found by the link on the lab assignment page.