University of Arkansas Little Rock

- IFSC 4399 - The Internet of Things (IoT)

- Introduction to the Raspberry Pi
- Communication with the RPi using VNC and SSH
- Introduction to Linux for the Raspberry Pi-history
- Introduction to Linux for the Raspberry Pi-command line
- The Linux philosophy, Legos and the RPi
- Putting the OS on your Raspberry Pi SD card
- Setup Adafruit IO account for IoT
- Linux commands in the bash environment
- Cyber security
- The pwnagotchi filter? Or Invasion of the pwnagotchi!
- Backup your RPi data using rsync
- Secure shell keys
- Data wrangling
- Setting up a WiFi hotspot using the RPi
- Editors, IDEs, scripts, interpreters, and compiled code
- Setup pitunnel for VNC access
- The Linux crontab, scheduling events
- MCP3008 Raspberry Pi Interfacing
- BME680 sensor setup using I2C
- Setting up the 1-wire interface for the RPi
- Digital and analog signals
- Hats for the Raspberry Pi
- Grove connectors
- Grove LED
- Controllable Four Outlet Power Relay
- Grove Resistive Plant Moisture Sensor
- Grove Air Quality Sensor
- Grove IR Interrupter Detector
- LIS3DH Triple-Axis Accelerometer

- Introduction to Control Systems (Iqbal)
  No image available

- 1: Mathematical Models of Physical Systems