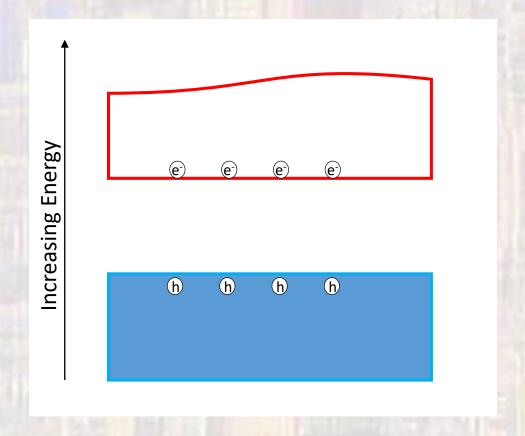
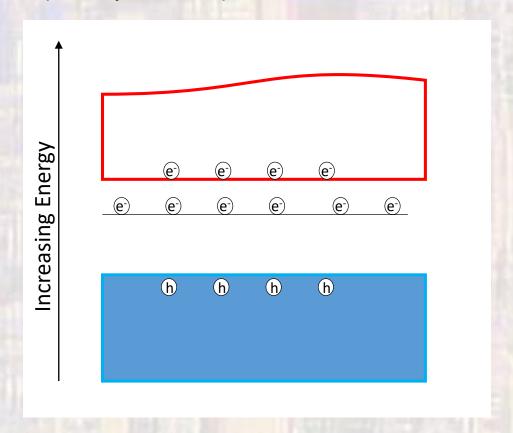
Last updated 2/9/19

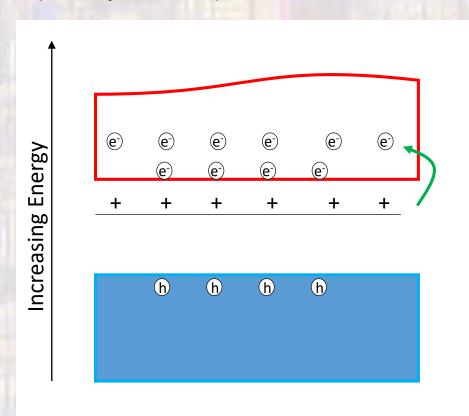
- Semiconductor pure
 - Limited number of free electrons and holes



- Semiconductor Doped
 - Donor (Phosphorous)

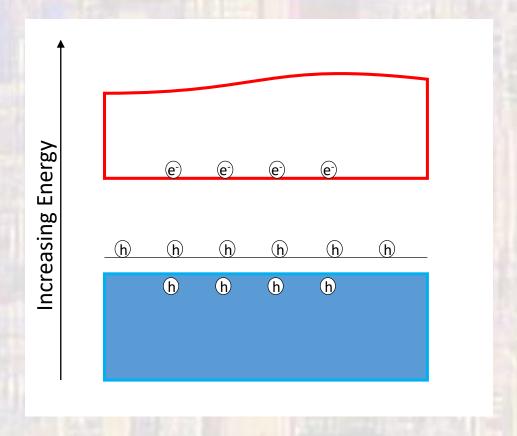


- Semiconductor Doped
 - Donor (Phosphorous)

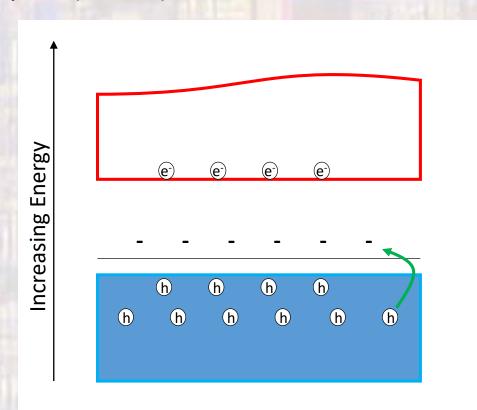


Binding Energy 0.044eV

- Semiconductor Doped
 - Acceptor (Boron)



- Semiconductor Doped
 - Acceptor (Boron)



Binding Energy 0.045eV