Course Number
ECE-101-01
Course Description
Introduction to the tools, skills, and principles of electrical and computer engineering. Emphasis is placed on developing an intuitive understanding while learning quantitative methods to design, test, and analyze electronics. Test and measurement tools include oscilloscopes, multimeters, and function generators. Circuit construction techniques include breadboarding and soldering as well as computer software to simulate circuits. Principles such as power, frequency, and modulation are taught through analog and digital electronics projects. Hands-on projects include an audio amplifier, crystal radio receiver, digital clock, and a microcontroller-operated robotic arm.
Academic Term
22/SP
Instructor
Hedrick, James
Location & Meeting Time
Integrated Science & Engineering Complex-176 T/TH 09:00AM-10:45AM LEC
Petition
Y
Credits
1.00
Capacity
11
Total Students
11
Common Curriculum
SET Science, Engineering Tech
Academic Department
Electrical & Computer Engineer
Field Of Study
Electrical & Computer Engineer (ECE)