ELEN 271 — Microsensors: Components and Systems
Department of Electrical Engineering
Santa Clara University

Overview: This course covers recent developments in micro and nano-sensors and their applications. Topics include: microfabrication technologies; sensor fundamentals; electronic, magnetic, chemical, biomedical, and mechanical sensors including gyrosopes and accelerometers; support circuitry; system level issues, technology integration and applications of sensors. (2 units)

Course Outline

Perspective & Overview
Microfabrication
Mechanical Sensors
Magnetic Sensors
Optical Sensors
Support Circuitry & Noise
Chemical Sensors
Biomedical Sensors

Lecture notes available online at:
http://eres.scu.edu/coursepage.asp?cid=1812

References