

AVT 121: Principles of Solid State

This course provides instruction in basic solid state theory beginning with atomic structure and includes diodes, bipolar transistors, field effect transistors, amplifiers, operational amplifiers, oscillator and power supply circuits. Emphasis is placed on the practical application of solid state devices, proper biasing and amplifier circuit analysis, and the use of test equipment to diagnose, troubleshoot, and repair typical solid state device circuits.

Credits: 5

Lab Hours: 9

Lecture Hours: 2

Clinical Hours: 0

Prerequisites: **AVT 111 AVT 112**