AE-231: L'entretien de studio est l'électronique de base

AE-231: Studio Maintenance ≅ Basic Electronics

# The Three Levels of Studio Maintenance

(HINT: ALL require basic troubleshooting skills)

- **System** (block diagram, device or board swap)
- **Daily** (Routine maintenance of computers and cables)
- Component (make repairs)

### The fundamentals of Basic Electronics

- Troubleshooting Skills
- Fine Motor Skills
  - Ability to use tools
- Ability to parse the language
  - Read schematics
  - Draw schematics
  - Create schematics

# **How to Achieve the Goal?**

- Electronics 101
- Lab emphasis
- Repair your own gear (RYOG) and / or
- DIY project
- Ask lots of questions

### **CLASS RESPONSIBILITIES**

- Reading Assignment
- Weekly Response to Assignment
  - On paper, by e-mail or blog, this is 25% of the grade.
  - What did you get? What did you not? How is the class going?
- The Weekly Assignment is 25% of the grade
- Class Participation (lab work, RYOG, DIY) is 25% of the grade.
- Tests and Exams constitute 25% of the grade.
- Ask lots of questions =
  - bonus points = very helpful to instructor and students

#### WEEK-1 / DAY-1

- Electrons, conductors, insulators, resistors, semiconductors
- Electricity: Current and Voltage
- Magnetism:
- Power, Volts and Amps
- AC and DC
- Measuring Devices
- Ohm's Law
- Schematic Symbols