Lesson Plans

**ELTR-170 Electronic System Integration**

Wiring subsystems

* Wire Preparation

Troubleshooting

* Interconnections of Modules

**ELTR-110 Manufacturing Processes**

* Project 1 Using MULTISIM Design a 12v Power Supply
* Project 2 Building The Clock Module

**ELTR-100 Electrical Network Analysis**

Analysis Project 1 using Project 2 from ELTR-110

* Circuit Analysis of 555 Timer
  + Circuit Schematic Designed with Discrete components

Analysis Project 2 using Project 1 from ELTR-110

* Power Supply Circuit
  + How to safely measure AC Power and the Power Supply Circuit

**ELTR-150 Solid State Semiconductor Devices**

Use Analysis Project from ELTR-100

* Build a 555 Timer from Discrete components

Revision of ELTR-110 Project 1

* Revise Power Supply to work with your Capstone Project for ELTR-190

**ELTR-130 Digital Logic Systems**

Use Analysis Project 1 from ELTR-100

* Build AND OR NOT Logic from Discrete components

Use LOGISIM to construct Logical Circuits for:

* Comparator, Adders, Latches, Registers, Counters, Encoders, Decoders, Selector/Multiplexers, ALU, 7 Segment Display, Control Logic, and CPU

**ELTR-180 Networking and Data Communications**

Project 1 build a 6502 to network with a partner:

<https://eater.net/6502>

Use the 6502 to do practical lessons with error correction:

<https://eater.net/crc>