

## **ECM Tool List Fall 2021**

### **Required**

Safety Glasses must have an ANSI Z87 rating

8" needle nose pliers

Wire cutter/ strippers with spring opener (e.g., Southwire Model 58747301)

Crimp Tool (22-10 AWG)

7" Diagonal-cutting pliers

9" tongue and groove pliers (trade name "channel locks")

11 in 1 ECX multi-tip screwdriver/nut driver

25-foot retractable tape measure

16 oz straight claw hammer

Electrician tool pouch with belt

Screw holding screwdriver (e.g., Southwire SDSH1-4)

Scratch-Awl

8" Magnetic Torpedo level

9" linesman pliers

Retractable utility knife

10" adjustable wrench

AC/DC clamp-on digital multi-meter (e.g., UEi model DL 469 or Southwire Model #21550T)

### **Supplies**

Five rolls of black electrical tape

Package of assorted vinyl electrical tape of various colors (red, blue, orange, yellow, brown, white)

Assorted 150 count pack of wire nuts (Red, Yellow, Orange, small blue) (e.g., Ideal 305152JR)

100 pack #410 crimp sleeves (e.g., Ideal 30-410)

12-2 Romex wire- minimum of 100 ft (Fall Semester use)

14-2 MC Cable wire -minimum of 100 ft. (Spring Semester use)

**Additional tools that will be useful but not necessary to start the program.**

Triple tap thread restorer 6/32, 8/32, 10/32

120 volt 3 prong receptacle tester (e.g., Southwire Model #40022S)

Romex sheathing slicer

High-leverage cable cutters (e.g., Southwire Model # CCP9DE)

Conduit Cutter/ scorer (e.g., Southwire Model #CONCUT)

**General Comments on tools**

Every electrician values their tools as a musician values their instrument. You will want to invest in the best you can afford, and over the years, you will learn which you like best. The list above provides you a good start. The brand name is not especially important, but a quality tool will last you a lifetime. There are brands that electricians favor over the ones sold in general hardware tools for homeowners. You may wish to look for an Apprentice Electrician tool kit which will include most of the tools listed above. The rest you can purchase separately to add to your gear.