

# How to Program The Chi-Square Goodness of Fit (CHIGOF)

Press [PGRM] > NEW and hit enter.  
Enter the name CHIGOF and hit enter

```
NORMAL FLOAT AUTO REAL RADIAN MP
PROGRAM
Name=CHIGOF
```

Now type in the following into your calculator

```
:( $(L_1 - L_2)^2 / L_2$ ) →  $L_3$ 
:sum( $L_3$ ) → C
:dim( $L_2$ ) - 1 → D
:Disp "CHI SQUARE="
:Disp C
:Disp "DF="
:Disp D
: $\chi^2cdf(C, 99999, D)$  → P
:Disp "P-VALUE="
:Disp P
:Stop
```

```
NORMAL FLOAT AUTO REAL RADIAN MP
PROGRAM: CHIGOF
: ( $(L_1 - L_2)^2 / L_2$ ) →  $L_3$ 
: sum( $L_3$ ) → C
: dim( $L_2$ ) - 1 → D
: Disp "CHI SQUARE="
: Disp C
: Disp "DF="
: Disp D
:  $\chi^2cdf(C, 99999, D)$  → P
: Disp "P-VALUE="
```

```
NORMAL FLOAT AUTO REAL RADIAN MP
PROGRAM: CHIGOF
: Disp "CHI SQUARE="
: Disp C
: Disp "DF="
: Disp D
:  $\chi^2cdf(C, 99999, D)$  → P
: Disp "P-VALUE="
: Disp P
: Stop
: ■
```

$L_1$  can be found by pressing [2<sup>ND</sup>] > [1]

→ can be found by pressing [STO→]

sum( can be found by pressing [2<sup>ND</sup>] > [STAT] > select MATH > select sum( and press [ENTER]

dim( can be found by pressing [2<sup>ND</sup>] > [ $x^{-1}$ ] > select MATH > select dim( and press [ENTER]

Disp can be found by pressing [PRGM] > select I/O > select Disp and press [ENTER]

= can be found by pressing [2<sup>ND</sup>] > [MATH] > select = and press [ENTER]

$\chi^2cdf$ ( can be found by pressing [2<sup>ND</sup>] > [VARS] > select  $\chi^2cdf$ (

<https://www.youtube.com/watch?v=UGEukx2EaEk>

