

# OFFICIAL STAT 201 EXAM 3 FORMULA SHEET SPRING 2024



## ONE SAMPLE TESTS

### Proportion

Confidence Intervals	$\hat{p} \pm z^* \times SE(\hat{p})$	$SE(\hat{p}) = \sqrt{\frac{\hat{p}\hat{q}}{n}}$
Hypothesis Testing	$z_{\hat{p}} = \frac{\hat{p} - p_0}{SD(\hat{p})}$	$SD(\hat{p}) = \sqrt{\frac{p_0q_0}{n}}$

### Mean

Confidence Intervals	$\bar{y} \pm t_{df}^* \times SE(\bar{y})$	$SE(\bar{y}) = \frac{s}{\sqrt{n}}$
Hypothesis Testing	$t_{df} = \frac{\bar{y} - \mu_0}{SE(\bar{y})}$	$SE(\bar{y}) = \frac{s}{\sqrt{n}}$

(df) degrees of freedom for the t-distribution =  $n - 1$

## TWO SAMPLE TESTS

### Difference Between Two Means

Confidence Intervals	$\bar{y}_1 - \bar{y}_2 \pm t_{df}^* \times SE(\bar{y}_1 - \bar{y}_2)$	$SE(\bar{y}_1 - \bar{y}_2) = \sqrt{\frac{(s_1)^2}{n_1} + \frac{(s_2)^2}{n_2}}$
Hypothesis Testing	$t_{df} = \frac{(\bar{y}_1 - \bar{y}_2) - 0}{SE(\bar{y}_1 - \bar{y}_2)}$	$SE(\bar{y}_1 - \bar{y}_2) = \sqrt{\frac{(s_1)^2}{n_1} + \frac{(s_2)^2}{n_2}}$

(df) degrees of freedom for the t-distribution available from JMP output

### Test of Independence

$$\chi^2_{df} = \text{Sum of } \frac{(\text{Obs} - \text{Exp})^2}{\text{Exp}} \quad \text{where} \quad \text{Exp} = \frac{\text{Row Total} \times \text{Column Total}}{N} \quad \text{for each cell.}$$

$$\text{Degrees of freedom} = (\# \text{Rows} - 1) \times (\# \text{Columns} - 1)$$

# Stat 201 Introduction To Statistics

**JE Gale**



## **Stat 201 Introduction To Statistics:**

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