Statistics Symbols

Population Parameters	**Sample Statistics (point estimates)**
Population Mean (mu): μ	Sample Mean (x bar): $\bar{x}$
Population Standard Deviation (sigma): σ	Sample Standard Deviation: s
Population Variance (sigma squared): σ^2	Sample Variance: s^2
Population Proportion: p or π	Sample Proportion (p-hat) or (p-prime): $\hat{p}$ or p'

Other symbols			
Sum: $\sum$		Sample Size: n	
Z-score (standardized value) or (z-test statistic): z		T-score (t-test statistic): t	
Z-critical value: z_α	2-tail Z-critical value: $z_{\alpha/2}$ or z^*	T-critical value: t_α	2-tail T-critical value $t_{\alpha/2}$ or t^*
Mean of the sample means: $\mu_{\bar{x}}$		Standard deviation of the sample means: $\sigma_{\bar{x}}$	
Null hypothesis: H_0		Alternative hypothesis: H_a or H_1	
Significance level (alpha): α		Chi-square test statistic: χ^2	
Correlation coefficient: r		Coefficient of determination: r^2	