



## Recommended Course Topics for an Acceptable Course to Meet the **Statistics** Prerequisite for Medical Schools

### Descriptive statistics

- Measures of central tendency
- Measures of variability or dispersion
- Kurtosis and skewness
- Univariate analysis of data
- Bivariate analysis of data
- Correlation and covariance

### Inferential statistics

- Statistics modeling theory and assumptions (parametric and non-parametric)
- Population and sampling methods
- Inference and Probability
- Confidence intervals
- Chi-square probability
- General linear models (t-test, analysis of variance [ANOVA], Analysis of Covariance [ANCOVA], regression analysis and other multivariate methods)

The acceptable statistics course should optimally be taught in the mathematics or statistics department of the institution. However, courses in social sciences, biology, or business may meet the requirement as long as the above noted topics are included.

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