BMEN 7341 - Biostatistics

**BMEN 7341** Biostatistics (3 semester credit hours) Biostatistics for Biomedical Engineers provides instruction on selected, important topics in biostatistical concepts and reasoning. Specific topics include tools for describing central tendency and variability in data; determining and justifying sample size; formulating hypotheses; selecting appropriate statistical analysis techniques; methods for performing inference on population means and proportions via sample data; statistical hypothesis testing and its application to group comparisons; general principles of study design; review of methods for comparison of discrete and continuous data; correlation and regression. This course emphasizes the practical application of skills for statistical interpretation of research data. Prerequisites: PhD standing and department consent required. (3-0) Y