Statistics 271 Course Schedule   Instructor: Halil Bayraktar

Week	Topics
1	**Introduction** **What is statistics and probability?** **Frequency distribution, mean, median, standart deviation**
2	**Data types, structures and relationship** **Numerical description of data, correlation**
3	**Introduction to basic probability** **Events and random variables**
4	**Probability (2)**
5	**Probability models** **Discrete and continuous random variables**
6	**Binomial and poisson distributions**
7	**Probability density function** **Central limit theorem** **Sampling distributions**
8	**Statistical Inference** **Hypothesis testing** **Confidence intervals, one sample t-test**
9	**Two-Sample inference**
10	**Two-Sample inference (2)** **Chi-squared test**
11	**Analysis of variance (ANOVA)** **Comparing groups of data** **Introduction to multi-sample problems**
12	**Linear regression** **Statistical models**
13	**Multiple regression**
14	**Multiple and logistic regression (2)**