STATISTICS (STAT)

STAT 837P – Computer Analysis of Statistical Data  3 credit hours
The analysis of data taken from the social sciences. The computer will be a tool for the course.

STAT 840 – Stochastic Modeling  3 credit hours
Methods quantifying the dynamic relationships of sequences of random events. Methods studied include Markov chains, Poisson processes, renewal, branching, and queueing, and their applications. Prerequisite: MATH 305 and MATH 440 and STAT 441

STAT 841P – Probability and Statistics  3 credit hours
Elementary probability theory and statistical applications. Prerequisite: MATH 260

STAT 842P – Mathematical Statistics  3 credit hours
A continuation of 441/841P. The further mathematical development of special probability densities, functions of random variables, sampling distributions, decision theory, point and interval estimators, hypotheses testing, and covariance. Department Consent Required. Prerequisite: STAT 241 and permission of instructor

STAT 881 – Statistical Inference I  3 credit hours
A continuation of STAT 441/841P. The further development of probability and distributions, multivariate distributions, some special distributions, and limiting distributions. Prerequisite: STAT 441 or 841P or equivalent

STAT 882 – Statistical Inference II  3 credit hours
A continuation of STAT 881. The further development of statistical inference, maximum likelihood method, sufficiency, optimal test of hypothesis, noncentral chi-square, multiple comparisons, regression problem, and test of independence. Prerequisite: STAT 881 or equivalent

STAT 895P – Independent Study  1-3 credit hours
Individual studies and research under the guidance of a faculty member. May be taken twice for two separate studies. Department Consent Required

Total Credits Allowed: 3.00