OPERATIONS RESEARCH (OPRE)

OPRE 505 FUNDAMENTALS OF STATISTICS (1.5)
Emphasizes applications of descriptive statistics in business. Topics include basic probability concepts, summary measures of location and dispersion, discrete and continuous probability distributions, sampling distribution of mean, and introductions to confidence interval estimation and hypothesis testing. Excel-based software is used for computer implementation. Prerequisite: Graduate standing.

OPRE 506 MANAGERIAL STATISTICS (1.5)
Emphasizes applications of inferential statistics in business. Topics include confidence interval estimation, hypothesis testing, analysis of variance, simple linear regression and an introduction to multiple regression. Excel-based software is used for computer implementation. Prerequisite: OPRE 505.

OPRE 605 BUSINESS ANALYTICS (1.5)
Explores business analytics and their applications to management decision-making for a range of business situations. Covers problem structuring; big data, data mining and optimization; computer simulation; decision analysis; and predictive modeling. Prerequisites: OPRE 505 and OPRE 506 or permission of the MBA program director.