STATISTICS (STAT)

STAT 200 Introduction to Statistical Computing 3 Credit Hour(s)
Online Prerequisite: CSIS 111 and MATH 131
This course focuses on using software to perform statistical analysis.
Offered: Online

STAT 211 Introduction to Statistical Analysis 3 Credit Hour(s)
Online Prerequisite: MATH 131
An introduction to statistical analysis for students with a background in calculus. Includes probability theory, probability distributions, expectation, statistical inference, regression and correlation.
Offered: Online

STAT 300 Introduction to Experimental Design 3 Credit Hour(s)
Online Prerequisite: MATH 211
Introduction to experimental designs and analysis of data from experiments.
Offered: Online

STAT 412 Advanced Statistical Methods 3 Credit Hour(s)
Online Prerequisite: MATH 211 or STAT 211
This course covers advanced inferential statistical topics.
Offered: Online

STAT 420 Regression and Forecasting I 3 Credit Hour(s)
Online Prerequisite: MATH 131 and MATH 211
A calculus-based mathematical inquiry on forecasting, using statistics and regression.
Offered: Online

STAT 421 Regression and Forecasting II 3 Credit Hour(s)
Online Prerequisite: STAT 420
An advanced course on forecasting, using statistics and regression.
Offered: Online

STAT 441 Probability 3 Credit Hour(s)
Online Prerequisite: MATH 132
Set notation and operations, properties of probability, expectation, and discrete and continuous probability distributions of a single random variable.
Offered: Online

STAT 445 Exploratory Data Analysis 3 Credit Hour(s)
Online Prerequisite: STAT 200 and STAT 211
This course focuses on exploring patterns in data sets using statistical and visualization methods.
Offered: Online

STAT 491 Capstone: Case Studies in Data Science 3 Credit Hour(s)
Online Prerequisite: STAT 445
This course is designed to apply skills in statistical analysis and interpretation, review learned statistical concepts, and solidify Christian worldview thinking.
Registration Restrictions: Senior status
Offered: Online