DATA 4330: Applied Binary Classification
3 Credit Hours

Prerequisite: STAT 4210

Common applications of binary classification include credit worthiness and the associated development of a credit risk score, fraud detection, and the presence of a disease. Students will learn to use logistic regression, odds, ROC curves, and maximization functions to apply binary classification concepts to real-world datasets. This course utilizes statistical coding software and students are expected to have an advanced knowledge of this software.

DATA 4400: Directed Study
3 Credit Hours

Prerequisite: Approval of the instructor, major area committee, and department chair.

Special advanced topics external to regular course offerings.

DATA 4490: Special Topics in Statistics
3 Credit Hours

Prerequisite: STAT 3130

Special topics of interest to faculty and students.

DATA 4990: Data Science Capstone
3 Credit Hours

Prerequisite: STAT 4210

Capstone projects challenge students to acquire and analyze data to solve real-world problems. Students will have to synthesize and strengthen the knowledge and skills learned through the program such as data visualization, inference and modeling, data wrangling, data organization, data mining and machine learning, as well as storytelling with the data.