

## **STATISTICS (STAT)**

### **0200 Basic Applied Statistics**

This course teaches descriptive and inferential statistics, making use of a user-friendly computer package. Students who complete this course will be able to conduct their own analysis of standard one-sample or two-sample data sets, follow statistical reasoning and read statistical reports with understanding. Introductory topics in linear regression, analysis of variance and contingency table analysis will also be covered.

4 credits

**OR**

### **1000 Applied Statistical Methods**

This course is an intensive introduction to statistical methods. It is designed for students who want to do data analysis and to study further ideas in applied statistics beyond this course. The topics covered include descriptive statistics, elementary probability, random sampling, controlled experiments, hypothesis testing, regression and the analysis of variance. Emphasis will be placed on the statistical reasoning underlying the methods. Students will also become proficient at the use of a statistical software package.

4 credits