

Statistics Formula Sheet & Rules For Hypothesis Testing

Guidelines

Who should use this resource?

- Students in courses **Statistics I (960:211)**, **Statistics II (960:212)** and **Basic Statistics for Research (960:401)** will find this resource most useful. However, the concepts on this sheet pertain to almost every statistics course and can be used by any statistics student.

When should this resource be used?

- Students should begin to use this sheet once they begin learning about **Inferential Statistics and Hypothesis Testing** in their course. Each step is outlined for general hypothesis testing along with every major formula that will be necessary.

How should this resource be used?

- Students should use this as a study tool and as a guide when completing various exercises and homework problems. When completing questions relating to inferential statistics and hypothesis testing, students should follow the guidelines on this sheet in order to learn the proper mathematical procedures, formulas and concept of test selection for each respective test.

What is the goal?

- By using this resource throughout the semester, students should aim to *fully understand the mathematical steps for each hypothesis test AND the concepts behind when and why to use each test*. Once the course is completed – ideally -- students should be able to complete any basic hypothesis testing question without having to use the resource sheet. Students should also be able to explain basic concepts about test selection and inferential reasoning.