

## UTAustinX: UT.7.20x Foundations of Data Analysis - Part 2



Important Pre-Course Survey

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- How To Navigate the Course
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- Week 0: Introduction to Data (Optional Review)
- Week 1: Sampling
- Week 2: Hypothesis Testing (One Group Means)
- Week 3: Hypothesis Testing (Two Group Means)

### Readings

Reading Check due May 03, 2016 at 17:00 UTC

## **Lecture Videos**

Comprehension Check due May 03, 2016 at 17:00 UTC Week 3: Hypothesis Testing (Two Group Means) > Problem Set > Question 1

**■** Bookmark

# Question 1

Is the increase in time spent studying from high school to college the same for nursing majors and biology majors?

- 1. Create a new variable that equals the difference in hours spent studying per week in college versus high school for each student.
- 2. Create two vectors of those differences, one for nursing majors and one for biology majors.
- 3. Use this data to answer the following questions.

Use the "PostSurvey.csv" dataset to answer the following questions. Instructions for installing "PostSurvey.csv" can be found under the **Examine the Data** unit in this week's **Pre-Lab** section.

(1/1 point)

1a. Which of the following methods should be used to answer the question above?

- Single-sample independent t-test
- Two-sample independent t-test
- Paired samples t-test
- Single sample z-test

## **R Tutorial Videos**

#### Pre-Lab

Pre-Lab due May 03, 2016 at 17:00 UTC

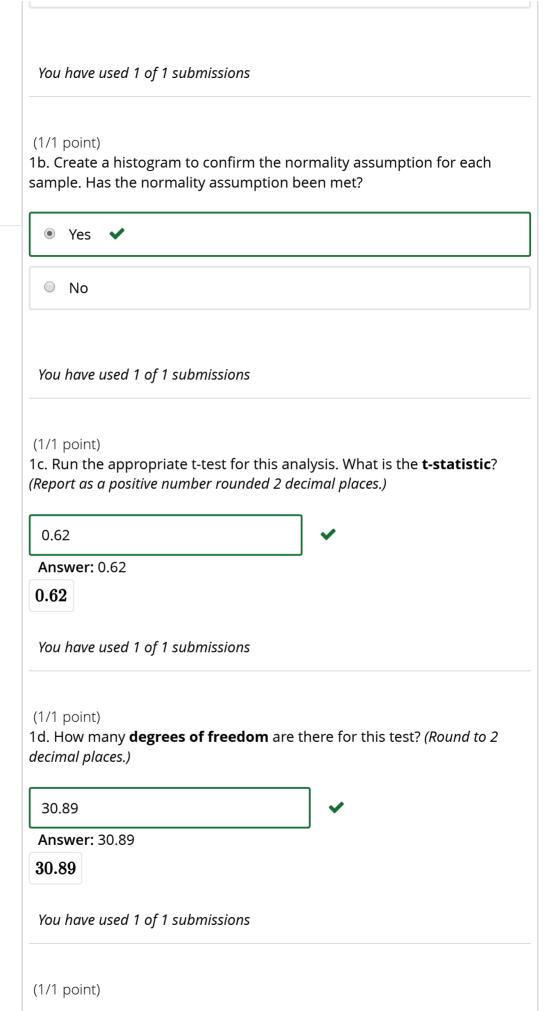
#### Lab

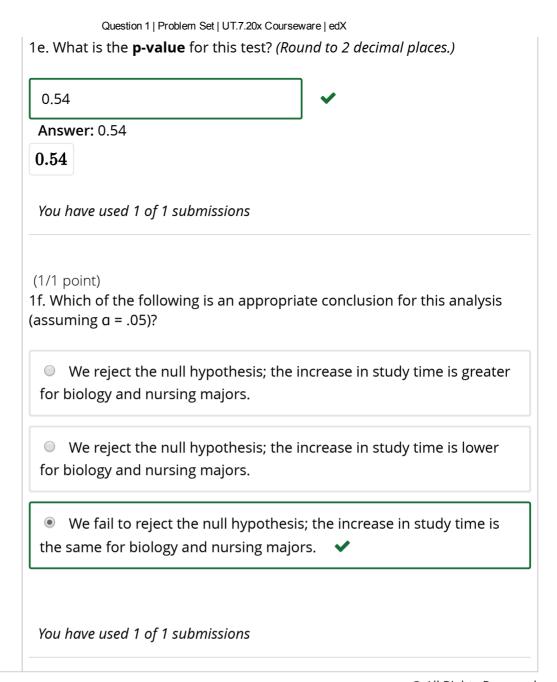
Lab due May 03, 2016 at 17:00 UTC

#### **Problem Set**

Problem Set due May 03, 2016 at 17:00 UT

Week 4: Hypothesis Testing (Categorical Data)





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