

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



▶ Important Pre-Course Survey

Week 2: Hypothesis Testing (One Group Means) > Lecture Videos > The T-Distribution

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#### Readings

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

#### **Lecture Videos**

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

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## Pre-Lab

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

Lab



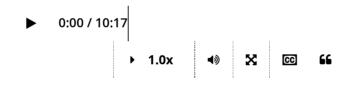
SPEAKER: MICHAEL J. MAHOMETA, Ph.D.

In this video I'd like to introduce you to a very important statistician:

William Gosset.

Why is he important?

Because he was an employee of Guinness Beer in the early 20th century



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# Comprehension Check

1. Here is the formula for calculating the tstatistic for a single sample:

> $sample\ mean\ -\ hypothesized\ mean$  $standard \overline{error}$

2016	The t-distribution   Lecture Videos   UT.7.20x Courseware   edX
Lab due May 03, 2016	(1/1 point)
at 17:00 UTC	1a. Which part of the formula tells you how far your sample mean is from
Problem Set	the center of the sampling distribution?
Problem Set due May	Niversator - American Niversator
03, 2016 at 17:00 UT 🗗	Numerator   Answer: Numerator
	(1/1 paint)
	(1/1 point)
	1b. Which part of the formula tells you how far a sample mean is expected
	to be from the center of the distribution?
	Denominator Denominator
	Denominator ▼
	2. Which of the following is true of the t-distribution?
	(1/1 point)
	(1/1 point)
	<ul> <li>Increasingly resembles the normal distribution as degrees of freedom increase.</li> </ul>
	Assumes the population is normally distributed
	It has a greater spread than the normal distribution.
	<ul><li>All of the above.</li></ul>

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