

CHAPTER OVERVIEW

11: The Chi-Square Distribution

A chi-squared test is any statistical hypothesis test in which the sampling distribution of the test statistic is a chi-square distribution when the **null hypothesis** is true.

- [11.1: Prelude to The Chi-Square Distribution](#)
- [11.2: Facts About the Chi-Square Distribution](#)
- [11.3: Goodness-of-Fit Test](#)
- [11.4: Test of Independence](#)
- [11.5: Test for Homogeneity](#)
- [11.6: Comparison of the Chi-Square Tests](#)
- [11.7: Test of a Single Variance \(Not Included in the Course\)](#)
- [11.8: Lab 1: Chi-Square Goodness-of-Fit \(Worksheet\)](#)
- [11.9: Lab 2: Chi-Square Test of Independence \(Worksheet\)](#)
- [11.E: The Chi-Square Distribution \(Exercises\)](#)

Barbara Illowsky and Susan Dean (De Anza College) with many other contributing authors. Content produced by OpenStax College is licensed under a Creative Commons Attribution License 4.0 license. Download for free at <http://cnx.org/contents/30189442-699...b91b9de@18.114>.

This page titled [11: The Chi-Square Distribution](#) is shared under a [CC BY 4.0](#) license and was authored, remixed, and/or curated by [OpenStax](#) via [source content](#) that was edited to the style and standards of the LibreTexts platform.