

STATS REFRESHER BOOT CAMP

FREE ZERO-CREDIT
3-DAY COURSE

COURSE GOALS

- Review introductory statistics concepts
- Increase statistics self-efficacy
- Develop SPSS skills
- Become familiar with some aspects of JMU

MATERIAL REVIEWED

- scales of measurement
- types of variables
- IV/DV/bivariate analyses
- population versus sample
- statistical notation
- frequency distributions
- the normal distribution
- sampling distributions
- p -values
- central tendency
- variability
- z -scores
- one-sample z -tests
- one-sample t -tests
- SPSS

WE WOULD LOVE TO
HAVE YOU JOIN US!

WHEN

Aug. 20th and 21st 2019
Lakeview Hall 1104
9a.m.-4p.m.

AND

Aug. 22nd 2019
Miller G025
9 a.m.-noon or 1-4 p.m.

Offered by the Department of Graduate Psychology

For more information, or to sign up, contact

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2019 Statistics Refresher Boot Camp

Statistics Refresher Boot Camp will be held on August 20, 21, and 22nd 2019 for incoming PSYC 605 *Intermediate Inferential Statistics* students. The first two days (August 20th and 21st) students will meet in Lakeview Hall 1104 to engage in lecture and hands-on activities. The third day (August 22nd) students will meet in Miller G025 for either a morning or afternoon session to engage in hands-on SPSS instruction. The sessions will be led by PSYC 605 faculty and a doctoral level assessment and measurement student.

This three-day zero-credit course is designed to offer students an introductory-level statistics *refresher* course. Although the course does not take the place of individual preparation, the purpose of the course is to help prepare students for enrollment in PSYC 605.

Textbooks

- **Boot Camp Textbook (free):** Cohen, B. (2013). *Explaining psychological statistics*. (4th ed.). Hoboken, NJ: Wiley.

The first six chapters are assigned reading for the boot camp, and PDF's of the assigned chapters will be freely available on Canvas. The text is also available for free through the JMU library by setting up an ebrary Academic Complete (Proquest) account (<http://www.lib.jmu.edu/resources/findbooks.aspx>). Instructions for setting up this account appear the first time you try to log onto the library. Once your account is set up, you can access the account from anywhere. For help, contact the JMU Library help desk at 540-568-6150.

Course Goals

- Review introductory statistics concepts
- Increase statistics self-efficacy
- Develop introductory-level familiarity with SPSS skills
- Become familiar with some aspects of JMU

Course Objectives

At the end of this Stats Boot Camp, students will be able to

- demonstrate increased statistics self-efficacy (assessed pre- and post-course)
- demonstrate increased fluency in introductory statistics skills (assessed pre- and post-course), including
 1. identifying scale of measurement
 2. defining and identifying types of variables
 3. defining and identifying a variable and a constant
 4. identifying continuous and discrete variables
 5. distinguishing between IV/DV/bivariate analyses
 6. defining population versus sample
 7. appropriately using statistical notation
 8. interpreting frequency distributions
 9. describing characteristics of the normal distribution
 10. describing sampling distributions & p-values
 11. computing central tendency and variability
 12. computing and interpreting z-scores
 13. computing and interpreting one-sample z- and t-tests

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