

# Research Design & Methodology 1

## Guide Information

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### Your Syllabi

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### Your Class Schedule

#### Dr. Katherine White

MWF Class 10-10:50  
Howard Hall 101

Friday LAB 11-12:50  
Woodall Hall 159

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#### Dr. Stephanie da Silva

MWF Class 1-1:50  
Howard Hall 106

Wed LAB 10-11:50  
How 210 / Woodall 158

## PSYC 3211- Welcome!

### Course Greetings

Hello! Welcome to the LibGuide for PSYC 3211: Research Design & Methodology 1

We hope you will find this LibGuide easy to use and full of useful information.  
Please let Dr. White or Dr. da Silva know if you are having trouble finding resources you need.

**We hope to have a great semester!**

## PSYC 3211- Course Resources

### Course Resources

Each unit in the course will be covered in various resources. All resources are freely available to you in this LibGuide.

The bulk of information we cover will be available in two online textbooks: "Introduction to Statistics" and "Social Science Research: Principles, Methods, and Practices." Both textbooks can be found **below this box** by clicking the hyperlinks provided. To use the books without internet access you have two options: 1.) Download the entire textbook, 2.) Download the individual chapters provided in the unit tabs.

Individual resources and book chapters are available to download on the Overview pages of the Units (tabs).

**You will not be able to download files or connect to web resources without Internet access.**

If you know you will be without internet access, you will want to download the files (.pdf or Word files) and save them.

## Your Instructors

### Dr. Katherine White

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706.568.5085

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### Dr. Stephanie da Silva

dasilva\_stephanie@columbusstate.edu  
706.568.2468

## Your Textbooks

- **Bhattacharjee - [Social Science Research:Principles, Methods, and Practices](#)**

An introduction to scientific research in the social sciences, business, education, public health, and related disciplines. Written by Anol Bhattacharjee. Listed as "ResMethods" in tabs.

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- **Lane et al. - [Introduction to Statistics](#)**

This book provides coverage of major topics in an easy to understand non-mathematical manner without compromising depth or accuracy. Statistical concepts are explained using examples from real research. Primary author David M. Lane. Listed as "Stats" in tabs.

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## UNIT 1

### UNIT 1 Materials

These documents are the materials you will read prior to class. The content of these pages will be used to complete your study guides.

- [Section 1 - Information Resources for Psychology](#)
- [Section 2: Ethical Considerations in Planning and Conducting Research](#)
- [Section 2: Ethical Considerations in Analyzing & Reporting Research, Part 1](#)
- [Section 2: Ethical Considerations in Analyzing & Reporting Research, Part 2](#)
- [Section 3 - Bhatt, Ch. 1: Science & Scientific Research](#)
- [Section 4 - Bhatt, Ch 2: Thinking Like a Researcher](#)
- [Section 5 - Bhatt, Ch. 3: The Research Process](#)
- [Section 6 - Bhatt, Ch. 4: Theories in Scientific Research](#)

### UNIT 1 - Summary

#### Summary

#### Unit 1: Sections 1-6

The first two sections will be based on instructor-compiled and created materials. The last four sections will be based on Bhattacharjee's (2012) "Social Science Research: Principles, Methods, and Practices".

All resource materials **are available to download in the left column of this page**. The files, once downloaded, can be used without Internet access. The instructor-created Study Guides (right column) will help direct your attention in appropriate ways while reading and reviewing the content of the materials.

#### UNIT 1 - Section 1.

Finding, Obtaining, & Evaluating Information Resources

#### UNIT 1 - Section 2.

Ethical Considerations in Research

#### UNIT 1 - Section 3.

Bhattacharjee, Ch.1: Science & Scientific Research

#### UNIT 1 - Section 4.

Bhattacharjee, Ch.2: Thinking Like a Researcher

#### UNIT 1 - Section 5.

Bhattacharjee, Ch.3: The Research Process

#### UNIT 1 - Section 6.

## UNIT 1 Study Guides

Use these study guides to help you when you read and review material. These guides tell you what information to take from the readings.

- [Section 1 - Study Guide: Finding & Evaluating Resources](#)
- [Section 2: Study Guide, Ethical Considerations](#)
- [Section 3 - Study Guide: Bhattacharjee, Ch 1](#)
- [Section 4 - Study Guide: Bhattacharjee, ch 2](#)
- [Section 5 - Study Guide: Bhattacharjee, ch 3](#)
- [Section 6 - Study Guide: Bhattacharjee, ch 4](#)

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## Unit 1. Section 1 - Finding & Evaluating Resources

### How do I use CSU Library resources?

- CSU Library Research Guides  
[http://library.columbusstate.edu/how\\_do\\_i/research/](http://library.columbusstate.edu/how_do_i/research/)
- PsycINFO tutorial from GSU  
<http://research.library.gsu.edu/port>
- Tutorial on Using PsycINFO  
<https://www.youtube.com/watch?v=T6X8QyqN0gU>
- Tutorial on ProQuest PsycINFO  
<https://www.youtube.com/watch?v=WhFetUlvAo4>

### What resources are available for psychology?

- [Information Resources for Psychology](#)

## Information Resources in Psychology

### Information Resources

The research process often begins with becoming familiar with research that others already have done.

This section of material aims to familiarize students with resources to find information and evaluate that information. It is important for researchers to understand tools to find previous work in their fields. Reviewing and analyzing past research/work educates the researcher so that she can develop a better research question and provide a rich context for that research question.

The goals of this Section will be achieved in three ways:

1. You will be assigned to review two sets of materials in the left column of this page.
2. You will practice finding & evaluating resources in the laboratory.
3. You will be asked to complete the study guide (right column of this page) and learn its content.

## UNIT 1. Section 1 - Study Guide

- [Section 1 - Study Guide: Finding & Evaluating Resources](#)

### How can I use my sources once I find them?

- [How to Read and Take Notes on an Article Source](#)

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## Unit 1. Section 2 - Ethical Considerations in Research

### Ethical Considerations in Planning and Executing Research

- [Ethical Considerations in Planning and Executing Research](#)
- [Lecture Outline - Ethical Consideration in Planning & Conducting Research](#)
- [PRACTICE WITH ETHICAL DECISIONS - Middlemist et al.](#)
- [PRACTICE - Response to Middlemist et al.](#)

### Ethical Considerations in Analyzing and Reporting Research

- [Ethical Considerations in Analyzing and Reporting Research: Part 1](#)
- [Ethical Considerations in Analyzing and Reporting Research, Part 2](#)
- [Lecture Outline - Ethical Consideration in Analyzing and Reporting Research](#)

### Integrity in Research

- p Hacking - Video on Research Integrity, Especially as Related to Data Analysis  
<https://www.youtube.com/watch?v=wb0rnZBlcRg>

### Ethical Considerations in Research

#### Ethical Considerations in Research

This section of material addresses ethical decision making by researchers.

We have divided Ethical Considerations into two areas:

**1. Considerations in Planning and Conducting Research**

**2. Considerations in Analyzing and Reporting Research**

Resource materials for each area are provided in the left column of this page.

A comprehensive study guide for this Ethical Considerations section is available in the right column of this page.

## **APA Ethics Code**

### **Code of Conduct from the American Psychological Association**

#### [APA Ethics Code](#)

The Ethical Principles of Psychologists and Code of Conduct from the American Psychological Association (APA) is a wide reaching document addressing all sorts of behavior by psychologists. As you can see in the Table of Contents below, only one Standard (of 10) addresses conduct of researchers. The other standards address other professional activities aside from research and publication.

#### **Introduction and Applicability**

#### **Preamble**

#### **General Principles**

#### **Standard 1: Resolving Ethical Issues**

#### **Standard 2: Competence**

#### **Standard 3: Human Relations**

#### **Standard 4: Privacy and Confidentiality**

#### **Standard 5: Advertising and Other Public Statements**

#### **Standard 6: Record Keeping and Fees**

#### **Standard 7: Education and Training**

#### **Standard 8: Research and Publication**

#### **Standard 9: Assessment**

#### **Standard 10: Therapy**

Standard 8 of the APA Ethics Code is provided on the APA website (<http://www.apa.org/ethics/code/>) and in the following .pdf file:

- [APA Ethics Code - Standard 8](#)

## **UNIT 1. Section 2 - Study Guide**

- [Section 2: Study Guide. Ethical Considerations](#)

## **CSU Institutional Review Board (IRB)**

### [CSU Institutional Review Board](#)

The Institutional Review Board (IRB) is a committee comprised of faculty, staff, and community members who approve all human research conducted by affiliates of CSU. The policies and practices of any IRB are ultimately

monitored by the US Government (per the Belmont Report, 1979). The purpose of an IRB is to protect the welfare and rights of human participants. The following page contains information about the membership, review process, and other procedures of the IRB at CSU: <http://research.columbusstate.edu/irb/>.

## **CSU Institutional Animal Care & Use Committee (IACUC)**

### **[CSU Animal Care and Use Committee](#)**

An Institutional Animal Care and Use Committee (IACUC) is comprised of faculty, staff, students, and community members. Its purpose is to review and approve any research involving mammals and birds. (Invertebrates, such as crayfish, and organism specimens may be used in research without approval of an IACUC.) Federal law requires an active IACUC exists at institutions where vertebrate research is conducted, and the standards required for animal husbandry vary based on factors such as the types of animals used. The following link will direct you to information about the current membership and recent activities of the IACUC at CSU: [https://aa.columbusstate.edu/institutional\\_committee.php#Animal%20Care%20and%20Use](https://aa.columbusstate.edu/institutional_committee.php#Animal%20Care%20and%20Use).

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## **Unit 1. Section 3 - Science & Scientific Research**

### **Bhattacharjee, Chapter 1**

Bhattacharjee's (2012) Chapter 1 can be accessed directly at [http://scholarcommons.usf.edu/cgi/viewcontent.cgi?article=1002&context=oa\\_textbooks#page=10](http://scholarcommons.usf.edu/cgi/viewcontent.cgi?article=1002&context=oa_textbooks#page=10), or by downloading the .pdf file below.

- [Bhatt, Ch 1 - Science and Scientific Research](#)
- [Bhatt, Ch 1 - Lecture Outline](#)

### **Science & Scientific Research - Overview**

#### **Bhattacharjee, Chapter 1**

#### **Science and Scientific Research**

This section aims to introduce students to science.

The goals of this Section will be achieved in three ways:

1. You will be assigned to review Bhattacharjee's (2012) Chapter 1.  
This is available in the left column of this page.
2. You will discuss and complete exercises regarding philosophy of science and research in class.
3. You will be asked to complete the study guide (right column of this page) and learn its content.

### **UNIT 1. Section 1 - Study Guide**

- [Section 3 - Study Guide: Bhattacharjee, Ch 1](#)

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## Unit 1. Section 4 - Thinking Like a Researcher

### Bhattacharjee, Chapter 2

Bhattacharjee's (2012) Chapter 2 can be accessed directly at [http://scholarcommons.usf.edu/cgi/viewcontent.cgi?article=1002&context=oa\\_textbooks#page=18](http://scholarcommons.usf.edu/cgi/viewcontent.cgi?article=1002&context=oa_textbooks#page=18), or by downloading the .pdf file below.

- [Bhatt. Ch 2 - Thinking Like a Researcher](#)
- [Bhatt. Ch 2 - Lecture Outline](#)

### Thinking Like a Researcher - Overview

#### Unit 1. Section 3 - Bhattacharjee, Chapter 2

##### Thinking Like a Researcher

This section aims to introduce students to scientific thinking.

The goals of this Section will be achieved in three ways:

1. You will be assigned to review Bhattacharjee's (2012) Chapter 2.  
This is available in the left column of this page.
2. You will discuss and complete exercises regarding scientific thinking in class.
3. You will be asked to complete the study guide (right column of this page) and learn its content.

### UNIT 1. Section 4 - Study Guide

- [Section 4 - Study Guide: Bhattacharjee. Ch 2](#)

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## Unit 1. Section 5 - The Research Process

### Bhattacharjee, Chapter 3

Bhattacharjee's (2012) Chapter 3 can be accessed directly at [http://scholarcommons.usf.edu/cgi/viewcontent.cgi?article=1002&context=oa\\_textbooks#page=26](http://scholarcommons.usf.edu/cgi/viewcontent.cgi?article=1002&context=oa_textbooks#page=26), or by downloading the .pdf file below.

- [Bhatt. Ch 3 - The Research Process](#)
- [Lecture Outline - Bhatt. Ch 3](#)



## The Research Process - Overview

### Unit 1. Section 5 - Bhattacharjee, Chapter 3

#### The Research Process

This section aims to introduce students to processes and steps of research.

The goals of this Section will be achieved in three ways:

1. You will be assigned to review Bhattacharjee's (2012) Chapter 3.  
This is available in the left column of this page.
2. You will discuss and complete exercises regarding research processes in class.
3. You will be asked to complete the study guide (right column of this page) and learn its content.

## UNIT 1. Section 5 - Study Guide

- [Section 5 - Study Guide: Bhattacharjee, Ch 3](#)

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## Unit 1. Section 6 - Theories of Scientific Research

### Bhattacharjee, Chapter 4

Bhattacharjee's (2012) Chapter 4 can be accessed directly at [http://scholarcommons.usf.edu/cgi/viewcontent.cgi?article=1002&context=oa\\_textbooks#page=34](http://scholarcommons.usf.edu/cgi/viewcontent.cgi?article=1002&context=oa_textbooks#page=34), or by downloading the .pdf file below.

- [Bhatt. Ch 4 - Theories in Scientific Research](#)
- [Lecture Outline - Bhatt. Ch 4](#)

## Theories in Scientific Research - Overview

### Unit 1. Section 5 - Bhattacharjee, Chapter 4

#### Theories in Scientific Research

This section aims to introduce students to theoretical approaches to research.

The goals of this Section will be achieved in three ways:

1. You will be assigned to review Bhattacharjee's (2012) Chapter 3.  
This is available in the left column of this page.
2. You will discuss and complete exercises regarding theories in class.

3. You will be asked to complete the study guide (right column of this page) and learn its content.

## UNIT 1. Section 6 - Study Guide

- [Section 6 - Study Guide: Bhattacharjee, Ch 4](#)

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## UNIT 2

### UNIT 2 Materials

- [Bhattacharjee, Ch 5: Research Design](#)
- [Bhattacharjee, Ch 6: Measurement of Constructs](#)
- [Lane et al., Ch 1: Intro to Stats](#)
- [Lane et al., Ch 2: Graphing Distributions](#)
- [Bhattacharjee, Ch 8: Sampling](#)
- [Lane et al., Ch 3: Summarizing Distributions](#)
- [Bhattacharjee, Ch. 9: Survey Research](#)
- [Bhattacharjee, Ch. 7: Scale Reliability and Validity](#)

### UNIT 2 - Summary

#### Summary

#### Unit 2: Sections 1-8

The first two sections will be based on instructor-compiled and created materials. The last four sections will be based on Bhattacharjee's "Social Science Research: Principles, Methods, and Practices".

All resource materials **are available to download in the left column of this page**. The files, once downloaded, can be used without Internet access. The instructor-created Study Guides (right column) will help direct your attention in appropriate ways while reading and reviewing the content of the materials.

#### UNIT 2 - Section 1.

Bhattacharjee, Ch 5: Research Design

#### UNIT 2 - Section 2.

Bhattacharjee, Ch 6: Measurement of Constructs

#### UNIT 2 - Section 3.

Lane et al., Ch 1: Introduction to Statistics

#### UNIT 2 - Section 4.

Lane et al., Ch 2: Graphing Distributions

**UNIT 2 - Section 5.**

Bhattacharjee, Ch 8: Sampling

**UNIT 2 - Section 6.**

Lane et al., Ch 3: Summarizing Distributions

**UNIT 2 - Section 7.**

Bhattacharjee, Ch 9: Survey Research

**UNIT 2 - Section 8.**

Bhattacharjee, Ch 7: Scale Reliability & Validity

**UNIT 2 Study Guides & Powerpoints**

Use these study guides and powerpoint lectures to help you when you read and review material. These resources tell you what information to take from the readings.

- [Study Guide - Bhatt, Ch 5: Research Design](#)
- [Study Guide - Bhatt, Ch 6: Measurement of Constructs](#)
- [Powerpoint - Lane et al., Ch 1 - Intro to Stats](#)
- [Powerpoint - Lane et al., Ch 2: Graphing Distributions](#)
- [Study Guide - Bhatt, Ch 8: Sampling](#)
- [Powerpoint - Lane et al., Ch 3A: Summarizing Distributions](#)  
Central tendency
- [Powerpoint - Lane et al., Ch. 3B: Summarizing Distributions](#)  
Variability
- [Study Guide - Bhatt, Ch 9: Survey Research](#)
- [Powerpoint - Lane et al., Ch. 6: Research Methods](#)
- [Study Guide - Bhatt, Ch 7. Reliability & Validity](#)

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**Unit 2. Section 1 - Research Design****Bhattacharjee, Chapter 5**

Bhattacharjee's (2012) Chapter 5 can be accessed directly at [http://scholarcommons.usf.edu/cgi/viewcontent.cgi?article=1002&context=oa\\_textbooks#page=44](http://scholarcommons.usf.edu/cgi/viewcontent.cgi?article=1002&context=oa_textbooks#page=44)., or by downloading the .pdf file below.

- [Bhatt, Ch 5 - Research Design](#)

**Research Design - Overview****Unit 2. Section 1 - Bhattacharjee, Ch 5****Research Design**

This section of material aims to familiarize students with various research designs used in social sciences.

The goals of this Section will be achieved in three ways:

1. You will be assigned to review Chapter 5 by Bhattacherjee (2012), which is available in the left column of this page.
2. You will discuss and complete exercises regarding research design in class.
3. You will be asked to complete the study guide (right column of this page) and learn its content.

## UNIT 2. Section 1 - Study Guide

- [Lecture Outline - Bhattcherjee, Ch 5](#)
- [Section 1. Study Guide - Bhattacherjee, Ch 5](#)

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## Unit 2. Section 2 - Measurement of Constructs

### Bhattacharjee, Chapter 6

Bhattacharjee's (2012) Chapter 6 can be accessed directly at [http://scholarcommons.usf.edu/cgi/viewcontent.cgi?article=1002&context=oa\\_textbooks#page=52](http://scholarcommons.usf.edu/cgi/viewcontent.cgi?article=1002&context=oa_textbooks#page=52), or by downloading the .pdf file below.

- [Bhatt, Ch 6 - Measurement of Constructs](#)

### Measurement of Constructs - Overview

#### Unit 2. Section 2 - Bhattacharjee, Ch 6

##### Measurement of Constructs

This section of material aims to familiarize students with the process of designing measurements and writing operational definitions.

The goals of this Section will be achieved in three ways:

1. You will be assigned to review Chapter 6 by Bhattacherjee (2012), which is available in the left column of this page.
2. You will discuss and complete exercises regarding measurement of constructs in class.
3. You will be asked to complete the study guide (right column of this page) and learn its content.

## UNIT 2. Section 2 - Study Guide

- [Lecture Outline - Bhattacharjee, Ch 6](#)
- [Section 2. Study Guide - Bhattacharjee, Ch 6](#)

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## Unit 2. Section 3 - Introduction to Statistics

### Lane et al., Chapter 1

Lane et al.'s Chapter 1 can be accessed directly at [http://onlinestatbook.com/Online\\_Statistics\\_Education.pdf#page=10](http://onlinestatbook.com/Online_Statistics_Education.pdf#page=10), or by downloading the .pdf file below.

- [Lane et al., Ch 1 - Intro to Stats](#)

### Introduction to Statistics - Overview

#### Unit 2. Section 3 - Lane et al., Chapter 1

##### Introduction to Statistics

This section of material aims to familiarize students with the definitions, purpose, and variations of statistics.

The goals of this Section will be achieved in three ways:

1. You will be assigned to review Chapter 1 by Lane et al., which is available in the left column of this page.
2. You will discuss and complete exercises regarding statistics in class.
3. You will be asked to review the powerpoint (right column of this page) and learn its content.

### UNIT 2. Section 3 - Powerpoint

- [Section 3. Powerpoint - Lane et al., Ch 1](#)

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## Unit 2. Section 4 - Graphing Distributions

### Lane et al., Chapter 2

Lane et al.'s Chapter 2 can be accessed directly at [http://onlinestatbook.com/Online\\_Statistics\\_Education.pdf#page=65](http://onlinestatbook.com/Online_Statistics_Education.pdf#page=65), or by downloading the .pdf file below.

- [Lane et al., Ch 2 - Graphing Distributions](#)

## Graphing Distributions - Overview

### Unit 2. Section 4 - Lane et al., Chapter 2

#### Graphing Distributions

This section of material aims to familiarize students with displaying scores in graphic formats.

The goals of this Section will be achieved in three ways:

1. You will be assigned to review Chapter 2 by Lane et al., which is available in the left column of this page.
2. You will discuss and complete exercises regarding the creation and interpretation of distributions in class.
3. You will be asked to review the powerpoint (right column of this page) and learn its content.

## UNIT 2. Section 4 - Powerpoint

- [Section 4. Powerpoint - Lane et al., Ch 2](#)

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## Unit 2. Section 5 - Sampling

### Bhattacharjee, Chapter 8

Bhattacharjee's (2012) Chapter 8 can be accessed directly at [http://scholarcommons.usf.edu/cgi/viewcontent.cgi?article=1002&context=oa\\_textbooks#page=74](http://scholarcommons.usf.edu/cgi/viewcontent.cgi?article=1002&context=oa_textbooks#page=74), or by downloading the .pdf file below.

- [Bhatt, Ch 8 - Sampling](#)

## Sampling - Overview

### Unit 2. Section 5 - Bhattacharjee, Ch 8

#### Sampling

This section of material aims to familiarize students with the process of selecting and gathering scores for research.

The goals of this Section will be achieved in three ways:

1. You will be assigned to review Chapter 8 by Bhattacharjee (2012), which is available in the left column of this page.

2. You will discuss and complete exercises regarding sampling techniques and issues in class.
3. You will be asked to complete the study guide (right column of this page) and learn its content.

## UNIT 2. Section 5 - Study Guide

- [Section 5. Lecture Outline - Bhattacharjee, Ch 8](#)
- [Section 5. Study Guide - Bhattacharjee, Ch 8](#)

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## Unit 2. Section 6 - Summarizing Distributions

### Lane et al., Chapter 3

Lane et al.'s Chapter 3 can be accessed directly at [http://onlinestatbook.com/Online\\_Statistics\\_Education.pdf#page=15](http://onlinestatbook.com/Online_Statistics_Education.pdf#page=15), or by downloading the .pdf file below.

- [Lane et al., Ch 3 - Summarizing Distributions](#)

### Summarizing Distributions - Overview

#### Unit 2. Section 6 - Lane et al., Chapter 3

##### Summarizing Distributions

This section of material aims to familiarize students with descriptive statistics used to summarize distributions of scores.

The goals of this Section will be achieved in three ways:

1. You will be assigned to review Chapter 3 by Lane et al., which is available in the left column of this page.
2. You will discuss and complete exercises related to descriptive statistics in class.
3. You will be asked to review the powerpoint (right column of this page) and learn its content.

## UNIT 2. Section 6 - Powerpoint

- [Section 6. Powerpoint - Lane et al., Ch 3A](#)
- [Section 6. Powerpoint - Lane et al., Ch 3B](#)

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## Unit 2. Section 7 - Survey Research

### Bhattacharjee, Chapter 9

Bhattacharjee's (2012) Chapter 9 can be accessed directly at [http://scholarcommons.usf.edu/cgi/viewcontent.cgi?article=1002&context=oa\\_textbooks#page=82](http://scholarcommons.usf.edu/cgi/viewcontent.cgi?article=1002&context=oa_textbooks#page=82), or by downloading the .pdf file below.

- [Bhatt. Ch 9 - Survey Research](#)

### Survey Research - Overview

#### Unit 2. Section 7 - Bhattacharjee, Ch 9

##### Survey Research

This section of material aims to familiarize students with the process of planning and conducting survey research.

The goals of this Section will be achieved in three ways:

1. You will be assigned to review Chapter 9 by Bhattacharjee (2012), which is available in the left column of this page.
2. You will discuss and complete exercises regarding survey research in class.
3. You will be asked to complete the study guide (right column of this page) and learn its content.

### UNIT 2. Section 7 - Study Guide

- [Lecture Outline - Bhattacharjee, Ch 9](#)
- [Section 7. Study Guide - Bhattacharjee, Ch 9](#)

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## Unit 2. Section 8 - Scale Reliability & Validity

### Bhattacharjee, Chapter 7

Bhattacharjee's (2012) Chapter 7 can be accessed directly at [http://scholarcommons.usf.edu/cgi/viewcontent.cgi?article=1002&context=oa\\_textbooks#page=64](http://scholarcommons.usf.edu/cgi/viewcontent.cgi?article=1002&context=oa_textbooks#page=64), or by downloading the .pdf file below.

- [Bhatt. Ch 7 - Scale Reliability & Validity](#)

### Scale Reliability & Validity - Overview



## Unit 2. Section 8 - Bhattacharjee, Ch 7

### Scale Reliability & Validity

This section of material aims to familiarize students with the process of determining the reliability & validity of research scales.

The goals of this Section will be achieved in three ways:

1. You will be assigned to review Chapter 7 by Bhattercherjee (2012), which is available in the left column of this page.
2. You will discuss and complete exercises regarding the selection, calculation, and interpretation of reliability & validity measures in class.
3. You will be asked to complete the study guide (right column of this page) and learn its content.

### UNIT 2. Section 8 - Study Guide

- [Lecture Outline - Bhatt. Ch 7](#)
- [Section 8. Study Guide - Bhattacharjee, Ch 7](#)

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## UNIT 3

### UNIT 3 Materials

The chapters from Morling and Passer are available in CougarVIEW.

- [Lane et al., Ch. 5: Probability](#)
- [Lane et al., Ch. 7: Normal Distributions](#)
- [Lane et al., Ch. 9: Sampling Distributions](#)
- [Lane et al., Ch. 10: Estimation](#)
- [Lane et al., Ch. 11: Logic of Hypothesis Testing](#)
- [Lane et al., Ch. 12: Testing Means](#)
- [Lane et al., Ch. 17: Chi Square](#)

### UNIT 3 - Summary

#### Summary

#### Unit 3: Sections 1-8

This unit includes experimental methods and begins our use of inferential statistics to analyze relations between variables. Most of the content is from the Lane et al. book about statistics and two other chapters (from research methods books by

Passer and Morling) will provide content about experiments.

All resource materials **are available to download in the left column of this page**. The files, once downloaded, can be used without Internet access. The instructor-created Study Guides (right column) and Powerpoint slides will help direct your attention in appropriate ways while reading and reviewing the content of the materials.

**UNIT 3 - Section 1.**

Morling, Ch 10 - Introduction to Simple Experiments

**UNIT 3 - Section 2.**

Lane et al., Ch 5-7 - Probability and Normal Distributions

**UNIT 3 - Section 3.**

Lane et al., Ch 9 - Sampling Distributions

**UNIT 3 - Section 4.**

Lane et al., Ch 10 - Estimation

**UNIT 3 - Section 5.**

Lane et al., Ch 11 - Logic of Hypothesis Testing

**UNIT 3 - Section 6.**

Passer, Ch 10 - Experimentation & Validity

**UNIT 3 - Section 7.**

Lane et al., Ch 12 - Testing Means

**UNIT 3 - Section 8.**

Lane et al., Ch 17 - Chi-Square

### **UNIT 3 Study Guides & Powerpoints**

Use these study guides and powerpoint lectures to help you when you read and review material. These resources tell you what information to take from the readings.

- [Study Guide - Morling, Ch 10: Simple Experiments](#)
- [Powerpoint - Lane et al., Ch 5-7: Probability & Normal Distributions](#)
- [Powerpoint - Lane et al., Ch 9: Sampling Distributions](#)
- [Powerpoint - Lane et al., Ch 10: Estimation](#)
- [Powerpoint - Lane et al., Ch 11: Logic of Hypothesis Testing](#)
- [Study Guide - Passer, Ch 10: Experimentation & Validity](#)
- [Powerpoint - Lane et al., Ch 12a: Testing Means, One Sample](#)
- [Powerpoint - Lane et al., Ch 12b: Testing Means, Two Independent Samples](#)
- [Powerpoint - Lane et al., Ch 12c: Two Paired Samples](#)
- [Powerpoint - Lane et al., Ch 17: Chi-Square](#)

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## **UNIT 4**

## UNIT 4 Materials

The chapters from Morling and Passer are available in CougarVIEW.

- [Lane et al., Ch 13: Power](#)
- [Lane et al., Ch 15: ANOVA](#)
- [SPSS Tutorial: One-way independent-groups ANOVA](#)
- [SPSS Tutorial: One-way repeated-measures ANOVA](#)

## UNIT 4 - Summary

### Summary

#### Unit 4: Sections 1-4

This unit extends our coverage of experiments and various statistical tests to situations in which factors of study become more complex (by increased levels) or situations in which multiple factors are studied. This unit also includes a section about statistical Power.

All resource materials **are available to download in the left column of this page**. The files, once downloaded, can be used without Internet access. The instructor-created Study Guides (right column) and Powerpoint slides will help direct your attention in appropriate ways while reading and reviewing the content of the materials.

#### UNIT 4 - Section 1.

Lane et al., Ch 3 - Power

#### UNIT 4 - Section 2.

Lane et al., Ch 15 - Analysis of Variance (ANOVA)

#### UNIT 4 - Section 3.

Factorial ANOVA

#### UNIT 4 - Section 4.

Post hoc comparisons / Follow-up analyses

## UNIT 4 Study Guides & Powerpoints

Use these study guides and powerpoint lectures to help you when you read and review material. These resources tell you what information to take from the readings.

- [Power - Summary](#)
- [Power - ppt slide for Spatz, Ch 10](#)
- [ANOVA Between-Subjects](#)
- [ANOVA Repeated Measures](#)
- [Factorial ANOVA - ppt slides](#)

# UNIT 5

## UNIT 5 Materials

The chapters from Morling and Passer are available in CougarVIEW.

- [Cozby & Bates, Ch 6: Nonexperimental Methods](#)
- [Lane et al., Ch 14 - Regression](#)
- [Lane et al., Ch 4 - Correlation](#)
- [SAGE Pub - Single-Subject Designs](#)

## UNIT 5 - Summary

### Summary

#### Unit 5: Sections 1-4

This unit begins our discussions of correlation and regression. It also reviews nonexperimental designs, such as surveys and observational methods.

All resource materials **are available to download in the left column of this page**. The files, once downloaded, can be used without Internet access. The instructor-created Study Guides (right column) and Powerpoint slides will help direct your attention in appropriate ways while reading and reviewing the content of the materials.

#### UNIT 4 - Section 1.

Cozby & Bates, Ch 6 - Nonexperimental Designs

#### UNIT 4 - Section 2.

Lane et al., Ch 4 - Correlation / Bivariate Analyses

#### UNIT 4 - Section 3.

Lane et al., Ch 14 - Regression

#### UNIT 4 - Section 4.

SAGE - Single-Subject Designs

## UNIT 5 Study Guides & Powerpoints

Use these study guides and powerpoint lectures to help you when you read and review material. These resources tell you what information to take from the readings.

- [Lane et al., Ch. 4 - Correlation](#)
- [Lane et al., Ch. 14 - Regression](#)
- [Ppt Slides - Cozby & Bates, Ch 6](#)
- [Study Guide - Cozby & Bates, Ch 6](#)
- [Study Guide - Single-Subject Designs](#)

# Class Project

## How do I write a research paper?

This box will contain links to tips & suggestions for how to write each section of the research paper.

- [How to create a Title Page](#)
- [How to create References](#)
- [Grading Rubric. Final Paper](#)
- [How to create an Introduction](#)
- [How to write a Discussion](#)
- [How to write a Method](#)
- [How to write an Abstract](#)
- [How to write your Results](#)

## Helpful Links to APA Guidelines

Rather than purchasing an APA Guide, we are referring students to online resources that provide quality information about APA Style.

- APA Style at Purdue Owl  
<https://owl.english.purdue.edu/owl/section/2/10/>

## Procedural Information for Class Project

This box contains information about the procedures involved in your study/project about Religious Affiliation and Discrimination.

- [Map of Areas for Letter Drop](#)

## PSYC 3211- Class Project. Fall2015

### **Class Research Project - Assessing Discrimination Using Lost-Letter Technique**

The Research Methods 1 project will be conducted as a class group that includes researchers from Dr. White and Dr. da Silva's classes. We will use a research procedure first reported in the 1960's called the "lost-letter technique".

We will review more information with you about the project in the lab meeting during the first week of classes. All the information you need to complete your research project will be provided on this page.

**Ask your instructor any questions you have about the project.**

## Class Project - Ethical Considerations

## Class Research Project - Ethics Training & IRB Approval

ALL students must complete online training and provide copies of their Ethics Certificates to their instructors. Please complete the required [Human Subjects Research Training](#) as directed by your instructor.

A copy of the approved IRB application (with protocol and materials) will be provided below when available.

### CLASS PROJECT - Finding Relevant Sources

Part of your introduction to the class project will require you to gather resources related to the topic of the class research project. This means you'll want to find articles and chapters that will help you understand your project and write about your project.

We will review in class the various ways you can obtain published journal articles and book chapters to use in your papers. Let your instructor know if you need more assistance.

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## Additional Resources

### Additional Resources

- [The New Statistics:](#)

#### [Estimation and Research Integrity](#)

This workshop by Geoff Cumming provides six thirty minute videos that cover a variety of subjects in statistics. A few subjects that are considered are confidence intervals, research integrity, statistical power, and meta-analysis.

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- [The New Statistics:](#)

#### [Why and How](#)

This article explains why the new statistics are important and offers guidance for their use. The new statistics refers to recommended practices, including estimation based on effect sizes, confidence intervals, and meta-analysis. It describes an eight-step new-statistics strategy for research with integrity.

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- [Statistics Guide](#)

These notes compiled by Jamie DeCoster provide information on meta-analysis and calculating mean difference and effect sizes.

- [The New Statistics: Why and How](#)
- [Statistics Guide](#)

## Unit 1 - Supplemental Resources

## Additional Readings & Information for UNIT 1

- [Kuhn's \(1972\) - Structure of Scientific Revolutions](#)

### Helpful Links

- GALILEO Guides  
[http://library.columbusstate.edu/how\\_do\\_i/galileo/index.php](http://library.columbusstate.edu/how_do_i/galileo/index.php)
- GIL-Find Instructional Guides  
[http://library.columbusstate.edu/how\\_do\\_i/gil/index.php](http://library.columbusstate.edu/how_do_i/gil/index.php)
- Khan Academy  
<https://www.khanacademy.org/math/probability>  
An easy way to get quick help with understanding statistics.

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## Statistical Analysis

### Resources for Dr. White's Statistics Exercises or Labs

This box will contain links to tips & suggestions for how to write each section of the research paper.

### Information for Statistical Analysis

#### Statistics Labs & Exercises

This tab is designed to provide you with more information regarding statistical analyses and provide resources related to those analyses.

**The statistical "flow charts" are provided below. These will be referred to throughout the course.**

- [Inferential Statistics - Choices & Flow Chart](#)
- [Descriptive Stats - Decision Tree](#)

### Resources for Dr. da Silva's LAB

All lab activities and related resources will be available in this box.

- [Activity 1](#)
- [Activity 2](#)
- [Activity 3](#)
- [Activity 4](#)
- [Activity 5](#)

- [Activity 6](#)
- [Activity 7](#)
- [Activity 7 Data](#)
- [Activity 8](#)
- [Activity 9](#)

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