Instructor/TA Info

Instructor Information

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Assignments

Assignment Descriptions

Conceptual Overview HW Assignment

Sep 12	Due: Wednesday, Sep 12 at 1:00 pm

Homework Questions

HW - Descriptive - Select, Run, Report

Sep 19	Due: Wednesday, Sep 19 at 1:00 pm

HW - Descriptive - RUN

Quiz - Descriptive - Select, Run, Report

Sep 19	Due: Wednesday, Sep 19 at 1:00 pm

You have 45 minutes to complete this test. You cannot save, exit, or submit later. Once you have answered the questions to your satisfaction - select submit. Because this is a quiz, do not use any materials (e.g., decision model, notes, other members of the class) except for SPSS. Feel free to contact Dr. Fischer if you have any questions before, during, or after the exam.

Introduction to Descriptive Stats (DBL) - Due before this class

Sep 19	Due: Wednesday, Sep 19 at 11:59 pm

Introduction to t-tests (DBL)

Sep 26	Due: Wednesday, Sep 26 at 12:59 pm

HW - t-test

Sep 26	Due: Wednesday, Sep 26 at 1:00 pm

Run and Interpret Single-Sample t-test Independence Samples t-test Paired Samples t-test

QUIZ - t-tests

Sep 26	Due: Wednesday, Sep 26 at 1:00 pm

You have 30 minutes to complete this test. You cannot save, exit, or submit later. Once you have answered the questions to your satisfaction - select submit. Because this is a quiz, do not use any materials (e.g., decision model, notes, other members of the class) except for SPSS. Feel free to contact Dr. Fischer or Dr. Plummer if you have any questions before, during, or after the exam.

HW - Up to ANOVA 1 Group

Oct 03	Due: Wednesday, Oct 03 at 1:00 pm

ANOVA Factorial ANOVA ANCOVA

QUIZ - Up to ANOVA 1 Group

Oct 03	Due: Wednesday, Oct 03 at 1:00 pm

You have 30 minutes to complete this test. You cannot save, exit, or submit later. Once you have answered the questions to your satisfaction - select submit. Because this is a quiz, do not use any materials (e.g., decision model, notes, other members of the class) except for SPSS. Feel free to contact Dr. Fischer or Dr. Plummer if you have any questions before, during, or after the exam.

Introduction to ANOVA 1 (DBL)

Oct 03	Due: Wednesday, Oct 03 at 11:59 pm

HW - Up to ANOVA 2 Group

Oct 10	Due: Wednesday, Oct 10 at 1:00 pm

RM & Split-Plot ANOVA

Quiz - Up to ANOVA 2 Group

Oct 10	Due: Wednesday, Oct 10 at 1:00 pm

You have 30 minutes to complete this test. You cannot save, exit, or submit later. Once you have answered the questions to your satisfaction - select submit. Because this is a quiz, do not use any materials (e.g., decision model, notes, other members of the class) except for SPSS. Feel free to contact Dr. Fischer or Dr. Plummer if you have any questions before, during, or after the exam.
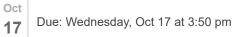
MIDTERM EXAM Gap Analysis

Midterm Exam Gap Analysis - t-tests / ANOVA - Select, Run, Interpret

Introduction to ANOVA 2 (DBL)

MIDTERM EXAM - t-tests / ANOVA - Select, Run, Interpret

Midterm Exam - t-tests / ANOVA - Select, Run, Interpret

Project 1 - Due

Project 1
Step 1 - Write a single-sample t-test research question.
Step 2 - using the following data set (link), run the Single Sample t-test in SPSS
Step 3 - report the results using the format from our class
Step 4 - repeat this process for the following methods

- independent samples t-test
- paired samples t-test
- one-way ANOVA
- ANCOVA
- factorial ANOVA
- repeated measures ANOVA
- split-plot ANOVA

Due date is October 24th

HW - Up to Relationship Methods

Homework Assignment #3 - Conditional Review t-tests One-way ANOVA RM ANOVA ANCOVA Factorial ANOVA   Split-Plot ANOVA   New Pearson Correlation Partial Correlation Phi-Coefficient Point Biserial Spearman' Rho Kendall's Tau

QUIZ - Up to Relationship Methods

You have 60 minutes to complete this test. You cannot save, exit, or submit later. Once you have answered the questions to your satisfaction - select submit. Because this is a quiz, do not use any materials (e.g., decision model, notes, other members of the class) except for SPSS. Feel free to contact Dr. Fischer or Dr. Plummer if you have any questions before, during, or after the exam.

Introduction to Regression (DBL)

HW - Up to Regression Methods

Nov 07	Due: Wednesday, Nov 07 at 1:00 pm

Run and Interpret Single-Sample t-test Independence Samples t-test Paired Samples t-test One-way ANOVA Split-Plot ANOVA Single-linear Regression Pearson Correlation

QUIZ - Up to Regression Methods

Nov 07	Due: Wednesday, Nov 07 at 1:00 pm

You have 30 minutes to complete this test. You cannot save, exit, or submit later. Once you have answered the questions to your satisfaction - select submit. Because this is a quiz, do not use any materials (e.g., decision model, notes, other members of the class) except for SPSS. Feel free to contact Dr. Fischer or Dr. Plummer if you have any questions before, during, or after the exam.

Introduction to Relationship Methods (DBL)

Nov 07	Due: Wednesday, Nov 07 at 11:59 pm

QUIZ - Up to Chi-Square Test of Independence

Nov 14	Due: Wednesday, Nov 14 at 1:00 pm

Run and Interpret One-way ANOVA Split-Plot ANOVA Single-linear Regression Chi-Square Test of Independence Chi-Square Goodness of Fit

HW - Up to Chi-Square Test of Independence

Nov 14	Due: Wednesday, Nov 14 at 1:00 pm

Run and Interpret One-way ANOVA Split-Plot ANOVA Single-linear Regression Chi-Square Test of Independence Chi-Square Goodness of Fit

Intro to Chi-square Test of Independence

Nov 14	Due: Wednesday, Nov 14 at 11:59 pm

QUIZ - Up to Goodness of Fit Test

Nov 28	Due: Wednesday, Nov 28 at 1:00 pm

Run and Interpret One-way ANOVA Split-Plot ANOVA Single-linear Regression Chi-Square Test of Independence Chi-Square Goodness of Fit

HW - Up to Goodness of Fit Test

Nov 28	Due: Wednesday, Nov 28 at 2:00 pm

Run and Interpret One-way ANOVA Split-Plot ANOVA Single-linear Regression Chi-Square Test of Independence Chi-Square Goodness of Fit

Intro to Goodness of Fit (DBL)

Nov 28 Due: Wednesday, Nov 28 at 11:59 pm

Practice Selecting All Methods

Nov 28 Due: Wednesday, Nov 28 at 11:59 pm

HW - Probability Theory (t-test)

Dec 05 Due: Wednesday, Dec 05 at 2:00 pm

Project 2 - Due

Dec 05 Due: Wednesday, Dec 05 at 11:59 pm

Project 2
Step 1 - Write a Pearson Correlation research question.
Step 2 - using the following data set (link), run the Pearson Correlation in SPSS
Step 3 - report the results using the format from our class
Step 4 - repeat this process for the following methods

- partial correlation
- point-biserial
- phi-coefficient
- spearman's rho
- kendall's tau
- single-linear regression
- multiple-linear regression
- chi-square test of independence
- chi-square goodness of fit test

Due date is Nov 28

Quiz - Probability Theory (t-test)

Dec 05 Due: Wednesday, Dec 05 at 11:59 pm

Quiz - Probability Theory (ANOVA)

Dec 12 Due: Wednesday, Dec 12 at 12:59 pm

Final Exam Gap Analysis

Dec 12 Due: Wednesday, Dec 12 at 3:50 pm

HW - Probability Theory (ANOVA)

Dec 12 Due: Wednesday, Dec 12 at 11:59 pm

Point Breakdown

Categories	Percent of Grade
Homework	10%
Midterms	20%
Final Exam	25%
Quizzes	25%
DBL Assignment	10%
Project	10%

University Policies

Honor Code

In keeping with the principles of the BYU Honor Code, students are expected to be honest in all of their academic work. Academic honesty means, most fundamentally, that any work you present as your own must in fact be your own work and not that of another. Violations of this principle may result in a failing grade in the course and additional disciplinary action by the university. Students are also expected to adhere to the Dress and Grooming Standards. Adherence demonstrates respect for yourself and others and ensures an effective learning and working environment. It is the university's expectation, and every instructor's expectation in class, that each student will abide by all Honor Code standards. Please call the Honor Code Office at 422-2847 if you have questions about those standards.

Preventing Sexual Misconduct

In accordance with Title IX of the Education Amendments of 1972, Brigham Young University prohibits unlawful sex discrimination against any participant in its education programs or activities. The university also prohibits sexual harassment-including sexual violence-committed by or against students, university employees, and visitors to campus. As outlined in university policy, sexual harassment, dating violence, domestic violence, sexual assault, and stalking are considered forms of "Sexual Misconduct" prohibited by the university.

University policy requires all university employees in a teaching, managerial, or supervisory role to report all incidents of Sexual Misconduct that come to their attention in any way, including but not limited to face-to-face conversations, a written class assignment or paper, class discussion, email, text, or social media post. Incidents of Sexual Misconduct should be reported to the Title IX Coordinator at t9coordinator@byu.edu or (801) 422-8692. Reports may also be submitted through EthicsPoint at https://titleix.byu.edu/report (https://titleix.byu.edu/report) or 1-888-238-1062 (24-hours a day).

BYU offers confidential resources for those affected by Sexual Misconduct, including the university's Victim Advocate, as well as a number of non-confidential resources and services that may be helpful. Additional information about Title IX, the university's Sexual Misconduct Policy, reporting requirements, and resources can be found at http://titleix.byu.edu (http://titleix.byu.edu) or by contacting the university's Title IX Coordinator.

Student Disability

Brigham Young University is committed to providing a working and learning atmosphere that reasonably accommodates qualified persons with disabilities. If you have any disability which may impair your ability to complete this course successfully, please contact the University Accessibility Center (UAC), 2170 WSC or 422-2767. Reasonable academic accommodations are reviewed for all students who have qualified, documented disabilities. The UAC can also assess students for learning, attention, and emotional concerns. Services are coordinated with the student and instructor by the UAC. If you need assistance or if you feel you have been unlawfully discriminated against on the basis of disability, you may seek resolution through established grievance policy and procedures by contacting the Equal Employment Office at 422-5895, D-285 ASB.

Schedule

Date	Topics	Targeted Learning	Inclass Introduction	HW Reinforcing Activities
Week 1				

| W Sep 05 Wednesday | Conceptual Overview | **Course Purpose**

By the end of this course, you will have a greater capacity to benefit the lives of others by being a better **discerner** and **presenter** of **truth claims** using **quantitative inquiry**

This ability will compliment other inquiry-related skills developed in qualitative, evaluation, and research design courses. | **Welcome to CPSE 651!!!**

**Introduction to the Course - **Syllabus

Introduction to Course Content Stat I Conceptual Overview.pptx Download

Index of all learning modules in this course

Access SPSS | **Homework Assignment Due at Beginning of Class Next Time**
Conceptual Overview HW Assignment Opens

REQUIRED Conceptual Reading Activity -

- Stat I Conceptual Overview.pptx Download |
| Week 2 | | | | |

W Sep 12 Wednesday	Descriptive Statistics	**Expected Learning Outcome #1** - How do I **SELECT** the correct analyses for my research questions? **Expected Learning Outcome #2** -How do I **RUN** my own analyses?	**Homework Assignment Due at Beginning of Class Next Time** **How to select Descriptive Statistics** - click on DBL assignment a week from this day **How to Run** Descriptive Statistics by clicking <u>here</u>	**Homework Due by Start of this Class** (see previous day) **Conceptual Overview HW Assignment Closes** **Homework Assignment Due at Beginning of Class Next Time** **HW - Descriptive - Select, Run, Report Opens** ***Prep for Quiz*** - <u>Flashcards</u> - **Select** descriptive statistical methods - **<u>Flashcards</u>** - **RUN** descriptive statistical methods **QUIZ** Due before the Beginning of Class Next Time This and all other quizzes must be completed within 45 min after starting. **Quiz - Descriptive - Select, Run, Report Opens** **REQUIRED Conceptual Reading Activity** - These highly visual online Power Points describe the concepts that underlie the descriptive methods covered in class today: Click <u>here</u>
Week 3				
W Sep 19 Wednesday	t-tests methods	**Expected Learning Outcome #1**	**Homework Due by Start of this Class** (see previous day)	**Homework Due by Start of this Class** (see previous day)

		- How do I **SELECT** the correct analyses for my research questions?	**Introduction to Descriptive Stats (DBL)** - Due before this class	**HW - Descriptive - Select, Run, Report Closes**
		Expected Learning Outcome #2 -How do I **RUN** my own analyses? **Expected Learning Outcome #3** -How do I **INTERPRET** the results?	**HOMEWK PREPARATION BEGINS** **Homework Assignment Due at Beginning of Class Next Time** **How to select t-tests** - click on DBL assignment a week from this day. • Instructor will go over questions **4, 5, 1, 3, 2, 6** in class. Complete the rest by your self. **How to Run** t-tests clicking the links below: 1. Single-Sample t-test 2. Independent Samples t-test 3. Paired Samples t-test • Checking for skew for Single & Paired Samples t-test. • Checking for skew for Independent Samples t-test **How to Interpret** t-tests by clicking the links below: 1. Single-Sample t-test 2. Independent Samples t-test 3. Paired Samples t-test **HOMEWORK PREPARATION ENDS**	**QUIZ Due by Start of this Class** (see previous day) **Quiz - Descriptive - Select, Run, Report Closes** **Homework Assignment Due at Beginning of Class Next Time** **HW - t-test Opens** *Prep for Quiz* • **Flashcards** - **Select** t-tests • **Flashcards** - **RUN** t-tests • **Flashcards** - Interpret t-tests **QUIZ** Due before the Beginning of Class Next Time **QUIZ - t-tests Opens** **REQUIRED Conceptual Reading Activity** - These highly visual online Power Points describe the concepts that underlie the inferential methods covered today: • Single Sample t-test • Independent Samples t-test • Paired Samples t-test

Week 4				
W Sep 26 Wednesday	ANOVA 1 methods	**Expected Learning Outcome #1** - How do I **SELECT** the correct analyses for my research questions? **Expected Learning Outcome #2** -How do I **RUN** my own analyses? **Expected Learning Outcome #3** -How do I **INTERPRET** the results?	**Homework Due by Start of this Class** (see previous day) **Introduction to t-tests (DBL)** **HOMEWORK PREPARATION BEGINS** **Homework Assignment Due at Beginning of Class Next Time** **How to select ANOVA First Group -** click on DBL assignment a week from this day - Instructor will go over questions **3, 5, 6, 7, 1, 2** in class. Complete the rest by your self. **How to Run** ANOVA, Factorial ANOVA, ANCOVA by clicking below: 1. One-way Analysis of Variance 2. Factorial Analysis of Variance 3. Analysis of Covariance - Checking for skew for Repeated Measures ANOVA. - Checking for skew for One-way ANOVA **How to Interpret** t-tests by clicking the links below: 1. One-way Analysis of Variance 2. Factorial Analysis of Variance 3. Analysis of Covariance **HOMEWORK PREPARATION ENDS**	**Homework Due by Start of this Class** (see previous day) **HW - t-test Closes** **QUIZ Due by Start of this Class** (see previous day) **QUIZ - t-tests Closes** **Homework Assignment Due at Beginning of Class Next Time** **HW - Up to ANOVA 1 Group Opens** ***Prep for Quiz for ANOVA 1 & t-tests*** - Flashcards - **Select** - Flashcards - **Select** and **Run** - Flashcards - **Select** and **Interpret** **QUIZ** Due before the Beginning of Class Next Time **QUIZ - Up to ANOVA 1 Group Opens** **REQUIRED Conceptual Reading Activity -** These highly visual online Power Points describe the concepts that underlie the inferential methods covered today: - One-way ANOVA - Factorial ANOVA - ANCOVA

Week 5				
W Oct 03 Wednesday	ANOVA 2 methods	**Expected Learning Outcome #1** - How do I **SELECT** the correct analyses for my research questions? **Expected Learning Outcome #2** -How do I **RUN** my own analyses? **Expected Learning Outcome #3** -How do I **INTERPRET** the results?	**Homework Due by Start of this Class** (see previous day) **Introduction to ANOVA 1 (DBL)** **HOMEWORK PREPARATION BEGINS** **How to select ANOVA Second Group** Instructor will go over questions **6, 7, 8, 9** in class. Complete the rest by your self. **How to Run** RM ANOVA, Split-plot ANOVA, by clicking below: 1. Repeated Measures ANOVA 2. Split-plot ANOVA - Checking for skew for Repeated Measures ANOVA. **How to Interpret** by clicking below: 1. Repeated Measures ANOVA 2. Split-plot ANOVA **HOMEWORK PREPARATION ENDS**	**Homework Due by Start of this Class** (see previous day) **HW - Up to ANOVA 1 Group Closes** **QUIZ Due by Start of this Class** (see previous day) **QUIZ - Up to ANOVA 1 Group Closes** **Homework Assignment Due at Beginning of Class Next Time** **HW - Up to ANOVA 2 Group Opens** *Prep for Quiz at Beginning of Next Class* - Flashcards - **Select** and **Run** t-tests, ANOVA, Factorial, ANCOVA, RM ANOVA, Split-Plot ANOVA - Flashcards - **Select** and **Interpret** t-tests, ANOVA, Factorial, ANCOVA, RM ANOVA, Split-Plot ANOVA **QUIZ** Due before the Beginning of Class Next Time **Quiz - Up to ANOVA 2 Group Opens** **REQUIRED Conceptual Reading Activity** - These highly visual online Power Points describe the concepts that underlie the inferential methods covered today: - Repeated Measures ANOVA - Split-Plot ANOVA

Week 6				
W Oct 10 Wednesday	Mid term 2 Prep	**Expected Learning Outcome #1** - How do I **SELECT** the correct analyses for my research questions? **Expected Learning Outcome #2** -How do I **RUN** my own analyses? **Expected Learning Outcome #3** -How do I **INTERPRET** the results?	**Homework Due by Start of this Class** (see previous day) **Introduction to ANOVA 2 (DBL)** **MIDTERM EXAM Gap Analysis**	**Homework Due by Start of this Class** (see previous day) **HW - Up to ANOVA 2 Group Closes** **QUIZ Due by Start of this Class** (see previous day) **MIDTERM PREP** **Quiz - Up to ANOVA 2 Group Closes**
Week 7				

| W Oct 17 Wednesday | Midterm 1 | **Expected Learning Outcome #1**

- How do I **SELECT** the correct analyses for my research questions?

Expected Learning Outcome #2

-How do I **RUN** my own analyses?

Expected Learning Outcome #3

-How do I **INTERPRET** the results? | **MIDTERM**

MIDTERM EXAM - t-tests / ANOVA - Select, Run, Interpret

PROJECT

Begin Project 1 (Due Oct 24)

Write 10 research questions, using this data set (link) run each one and provide the appropriate interpretation for each.

- t-tests (3)
- ANOVAs (5) | |
| Week 8 | | | | |

| W Oct 24 Wednesday | Relationship methods | **Expected Learning Outcome #1**

 - How do I **SELECT** the correct analyses for my research questions?

 Expected Learning Outcome #2

 -How do I **RUN** my own analyses?

 Expected Learning Outcome #3

 -How do I **INTERPRET** the results? | **HOMEWORK PREPARATION BEGINS**

 How to select Relationship Methods

 Instructor will go over questions **2, 3, 5, 6, 7, 9** in class. Complete the rest by your self.

 How to Run relationship methods, by clicking below:

 1. Pearson Correlation
 2. Partial Correlation
 3. Point Biserial
 4. Phi-coefficient
 5. Spearman's Rho
 6. Kendall's Tau

 • Checking for skew for Relationships

 How to Interpret relationship methods, by clicking below:

 1. Pearson Correlation
 2. Partial Correlation
 3. Point Biserial
 4. Phi-coefficient
 5. Spearman's Rho
 6. Kendall's Tau

 HOMEWORK PREPARATION ENDS

 PROJECT

 Project 1 - Due | **Homework Assignment Due at Beginning of Class Next Time**

 Prep for Quiz methods up to Relationship Methods

 • Flashcards - **Select**
 • Flashcards - **Select** and Run
 • Flashcards - **Select** and **Interpret**

 HW - Up to Relationship Methods Opens

 QUIZ Due before the Beginning of Class Next Time

 QUIZ - Up to Relationship Methods Opens

 REQUIRED Conceptual Reading Activity - These highly visual online Power Points describe the concepts that underlie the inferential methods covered today:

 • Pearson Correlation
 • Partial Correlation
 • Point-Biserial
 • Phi-Coefficient
 • Spearman's Rho
 • Kendall's Tau |
| Week 9 | | | | |

| W Oct 31 Wednesday | Regression methods | **Expected Learning Outcome #1**

- How do I **SELECT** the correct analyses for my research questions?

Expected Learning Outcome #2

-How do I **RUN** my own analyses?

Expected Learning Outcome #3

-How do I **INTERPRET** the results? | **Homework Due by Start of this Class** (see previous day)

Introduction to Regression (DBL)

HOMEWORK PREPARATION BEGINS

How to select Regression Methods

Instructor will go over questions **1, 2, 3, 4** in class. Complete the rest by your self.

How to Run regression methods, by clicking below:

1. Single-Linear Regression
2. Multiple-Linear Regression

How to Interpret regression methods, by clicking below:

1. Single-Linear Regression
2. Multiple-Linear Regression

HOMEWORK PREPARATION ENDS | **Homework Due by Start of this Class** (see previous day)
HW - Up to Relationship Methods Closes

QUIZ Due by Start of this Class (see previous day)
QUIZ - Up to Relationship Methods Closes

Homework Assignment Due by the Beginning of Class Next Time
HW - Up to Regression Methods Opens

Prep for Quiz - all methods up to regression methods

- Flashcards - **Select**
- Flashcards - **Select** and Run
- Flashcards - **Select** and **Interpret**

QUIZ Due before the Beginning of Class Next Time
QUIZ - Up to Regression Methods Opens

REQUIRED Conceptual Reading Activity - These highly visual online Power Points describe the concepts that underlie the inferential methods covered today:

- Single-linear Regression
- Multiple-linear Regression |
| Week 10 | | | | |

| W Nov 07 Wednesday | Chi-square 1 method | **Expected Learning Outcome #1**

- How do I **SELECT** the correct analyses for my research questions?

Expected Learning Outcome #2

-How do I **RUN** my own analyses?

Expected Learning Outcome #3

-How do I **INTERPRET** the results? | **Homework Due by Start of this Class** (see previous day)

Introduction to Relationship Methods (DBL)

HOMEWORK PREPARATION BEGINS

How to select Chi-square Test of Independence

Instructor will go over questions **1, 2** in class. Complete the rest by your self.

How to Run Chi-square test of independence, by clicking below:

1. Chi-square test of independence

How to Interpret Chi-square test of independence, by clicking below:

1. Chi-square test of independence

HOMEWORK PREPARATION ENDS | **Homework Due by Start of this Class** (see previous day)
HW - Up to Regression Methods Closes

QUIZ Due by Start of this Class (see previous day)
QUIZ - Up to Regression Methods Closes

Homework Assignment Due by the Beginning of Class Next Time
HW - Up to Chi-Square Test of Independence Opens

Prep for Quiz - up to Chi-square Test of Independence

• Flashcards - **Select**
• Flashcards - **Select** and Run
• Flashcards - **Select** and **Interpret**

QUIZ Due before the Beginning of Class Next Time
QUIZ - Up to Chi-Square Test of Independence Opens

REQUIRED Conceptual Reading Activity - These highly visual online Power Points describe the concepts that underlie the inferential methods covered today:

• Chi-square Test of Independence |

Week 11					
W Nov 14 Wednesday	Chi-square 2 method	**Expected Learning Outcome #1** - How do I **SELECT** the correct analyses for my research questions? **Expected Learning Outcome #2** -How do I **RUN** my own analyses? **Expected Learning Outcome #3** -How do I **INTERPRET** the results?	**Homework Due by Start of this Class** (see previous day) **Intro to Chi-square Test of Independence** **HOMEWORK PREPARATION BEGINS** **How to select Chi-square Goodness of Test** Instructor will go over questions **1, 2** in class. Complete the rest by your self. **How to Run** Chi-square Goodness of Fit Tests, by clicking below: 1. Chi-square Goodness of Fit Test **How to Interpret** Chi-square Goodness of Fit Tests, by clicking below: 1. Chi-square Goodness of Fit Test **HOMEWORK PREPARATION ENDS** **PROJECT** **Begin Project 2 (Due Dec 05)** Write 10 research questions, using this data set (link) run each one and provide the appropriate interpretation for each.	**Homework Due by Start of this Class** (see previous day) **HW - Up to Chi-Square Test of Independence Closes** **QUIZ Due by Start of this Class** (see previous day) **QUIZ - Up to Chi-Square Test of Independence Closes** **Homework Assignment Due by the Beginning of Class Next Time** **HW - Up to Goodness of Fit Test Opens** *Prep for Quiz - up to Chi-square Goodness of Test* - Flashcards - **Select** - Flashcards - **Select and Run** - Flashcards - **Select and Interpret** **QUIZ** Due before the Beginning of Class Next Time **QUIZ - Up to Goodness of Fit Test Opens** **REQUIRED Conceptual Reading Activity** - These highly visual online Power Points describe the concepts that underlie the inferential methods covered today: - Chi-square Goodness of Fit Test	

				- Relationship Methods (6)
				- Regression Methods (2)
				- Chi Square Methods (2)

Week 12

T Nov 20 Tuesday	**Friday Instruction**			
W Nov 21 Wednesday	**No Classes**			
F Nov 23 Friday	**Instructor Ratings Open Thanksgiving Holiday**			

Week 13

| W Nov 28 Wednesday | Probability Theory (t-test) | **Expected Learning Outcome #4** - How do I **Explain** deeper concepts associated with interpretation? | **Homework Due by Start of this Class** (see previous day)
 Intro to Goodness of Fit (DBL)
 Practice Selecting All Methods

 HOMEWORK PREPARATION BEGINS
 Probability Theory t-tests
 • Demo
 • Explanation
 • Practice

 HOMEWORK PREPARATION ENDS | **Homework Due by Start of this Class** (see previous day)
 HW - Up to Goodness of Fit Test Closes

 QUIZ Due by Start of this Class (see previous day)
 QUIZ - Up to Goodness of Fit Test Closes

 Homework Assignment Due by the Beginning of Class Next Time
 HW - Probability Theory (t-test) Opens
 QUIZ Due before the Beginning of Class Next Time
 Quiz - Probability Theory (t-test) Opens |

Week 14

| W Dec 05 Wednesday | Probability Theory (ANOVA) | **Expected Learning Outcome #4** - How do I **Explain** deeper concepts associated with interpretation? | **HOMEWORK PREPARATION BEGINS** Probability Theory t-tests
• Demo
• Explanation
• Practice

HOMEWORK PREPARATION ENDS

PROJECT
Project 2 - Due | **Homework Due by Start of this Class** (see previous day)
HW - Probability Theory (t-test) Closes

QUIZ Due by Start of this Class (see previous day)
Quiz - Probability Theory (t-test) Closes

Homework Assignment Due by the Beginning of Class Next Time
HW - Probability Theory (ANOVA) Opens
QUIZ Due before the Beginning of Class Next Time
Quiz - Probability Theory (ANOVA) Opens |
| Week 15 | | | | |

| W Dec 05 Wednesday | Probability Theory (ANOVA) | **Expected Learning Outcome #4** - How do I **Explain** deeper concepts associated with interpretation? | **HOMEWORK PREPARATION BEGINS** | |

W Dec 12 Wednesday	Final Exam Prep	**All FOUR Learning Outcomes!!!!** **Expected Learning Outcome #1** - How do I **SELECT** the correct analyses for my research questions? **Expected Learning Outcome #2** -How do I **RUN** my own analyses? **Expected Learning Outcome #3** -How do I **INTERPRET** the results? **Expected Learning Outcome #4** - How do I **Explain** deeper concepts associated with interpretation?	**FINAL EXAM PREP** **Final Exam Gap Analysis**	**Homework Due by Start of this Class** (see previous day) **HW - Probability Theory (ANOVA) Closes** **QUIZ Due by Start of this Class** (see previous day) **Quiz - Probability Theory (ANOVA) Closes**
F Dec 14 Friday	**Fall Exam Preparation (12/14/2018 - 12/14/2018)**			
Week 16				
M Dec 17 Monday			2144 LSB 2:30-5:30PM	