Instructor/TA Info

Instructor Information

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Assignments

Assignment Descriptions

Quiz - Descriptive - Select, Run, Report

May 07 Due: Monday, May 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 if you have any questions before, during, or after the exam.

HW - Descriptive - Select, Run, Report

May 07 Due: Monday, May 07 at 1:00 pm

HW - Descriptive - RUN

QUIZ - t-test- Select, Run, & Report

May 09 Due: Wednesday, May 09 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 - t-test - Select, Run, & Report

May 09 Due: Wednesday, May 09 at 1:00 pm

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

QUIZ - ANOVA, Factorial, ANCOVA - Select, Run, Report

May 14 Due: Monday, May 14 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 - ANOVA, Factorial, ANCOVA - Select, Run, Report

May 14 Due: Monday, May 14 at 1:00 pm

ANOVA Factorial ANOVA ANCOVA

HW - RM & Split-Plot ANOVA - Select, Run, Intepret

May 16 Due: Wednesday, May 16 at 1:00 pm

RM & Split-Plot ANOVA

Quiz - RM & Split-Plot ANOVA - Select, Run, Interpret

May 16 Due: Wednesday, May 16 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 - t-tests / ANOVA - Select, Run, Interpret

May 23 Due: Wednesday, May 23 at 3:50 pm

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

HW - t-test / ANOVAs / Relationship - S - R - I

Jun 04 Due: Monday, Jun 04 at 1:00 pm

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 - t-test / ANOVAs / Relationship - S - R - I

Jun 04 Due: Monday, Jun 04 at 1:00 pm

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.

HW - t-tests, ANOVAs, relationship, regression - S R I

Jun

06 Due: Wednesday, Jun 06 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 - t-test / ANOVAs / Relationship / Regression - S - R - I

Jun 06 Due: Wednesday, Jun 06 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.

QUIZ - t-test/ANOVA/Rel/Reg/Indep - S R I

Jun 11 Due: Monday, Jun 11 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 - t-test/ANOVA/Rel/Reg/Indep - S R I

Jun 11 Due: Monday, Jun 11 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

QUIZ - t-test/ANOVA/Rel/Reg/Indep/FIT - S R I

Jun 13 Due: Wednesday, Jun 13 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 - t-test/ANOVA/Rel/Reg/Indep/FIT - S R I

Jun 13 Due: Wednesday, Jun 13 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

Complete Student Ratings

Jun 18 Due: Monday, Jun 18 at 11:59 pm

Complete student ratings by Dec 15th for extra credit

The Final Exam

Jun 20 Due: Wednesday, Jun 20 at 5:30 pm

This is the Final Kimball Tower 112 1pm-5pm

Point Breakdown

Categories	Percent of Grade
Homework	24.75%
Quizzes	24.75%
Midterms	14.85%
Final Exam	24.75%
Final Project	9.9%
Extra Credit	0.99%

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	Column 1	Column 2	HW Reinforcing Activities
Week 1			
W May 02 Wednesday			

Course Purpose

By the end of this course, you will have greater capacity to **conduct** basic quantitative research and **draw on** quantitative literature to support, refute, and synthesize ideas used to **extend your own research.**

This ability will compliment other inquiry-related skills developed in qualitative, evaluation, and research design courses.

Expected Learning Outcome #1

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

Expected Learning Outcome #2

Introduction to the Course

- **Developing** Conditional, Procedural & Conceptual knowledge
  - Syllabus
  - CPSE 651 Expert Decision Model.pdf Download
  - Decision-Based Learning - **Software**

- Stat I Conceptual Overview.pptx Download

Learning Activity to Prepare for Homework Assignment

- **TOPIC - Descriptive Statistics**
  - **How to Select Descriptive Statistics** Download
    - Compute Mean, Median, Mode.xlsx Download
    - Standard Deviation - Practice Sheet.xlsx Download
  - **How to Run** Descriptive Statistics by clicking here

Homework Assignment Due at Beginning of Class Next Time

HW - Descriptive - Select, Run, Report Opens

Prep for Quiz

- Flashcards - **Select** descriptive statistical methods
- **Flashcards** - **RUN** descriptive statistical methods

QUIZ Due before the Beginning of Class Next Time

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:

- Inferential vs Descriptive Statistics
- The Nature of the Data (Measurement Scales)
- Distributions
- Mean
- Median
- Mode
- Range
- Standard Deviation
- Inter-quartile Range

REQUIRED Conceptual Reading Activity -

- Stat I Conceptual Overview.pptx Download

	-How do I **RUN** my own analyses and INTERPRET the results?		
Week 2			
M May 07 Monday	**Expected Learning Outcome #1**	**Learning Activity to Prepare for Homework Assignment** • **TOPIC - Inferential Statistics: Single Sample t-**	**Homework Due by Start of this Class** (see previous day) **HW - Descriptive - Select, Run, Report Closes**

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

Expected Learning Outcome #2

-How do I **RUN** my own analyses and **INTERPRET** the results?

test, **Independent Samples t-test**, **Paired Samples t-test**

- **LEARN HOW TO:**
  - **How to Select** t-tests Download
  - **How to Run** t-tests by clicking here
  - **How to Interpret** t-tests by clicking here

Devotional -- "learn to discern and understand [the Holy

QUIZ Due by Start of this Class (see previous day)

Quiz - Descriptive - Select, Run, Report Closes

Homework Assignment Due by the Beginning of Class Next Time

HW - t-test - Select, Run, & Report 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-test- Select, Run, & Report 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

		Ghost's] promptings -- Chanel Devotional -- "learn to discern and understand [the Holy Ghost's] promptings (AnnMarie)	

W May 09 Wednesday	**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 and **INTERPRET** the results?
		Learning Activity to Prepare for Homework Assignment
		• **TOPIC - Analysis of Variance (ANOVA), Factorial ANOVA, Analysis of Covariance (ANCOVA)**
		• **LEARN HOW TO:**
		  • **How to Select** ANOVA, Factorial, ANCOVA - Download
		  • **How to Run** ANOVA, Factorial, ANCOVA by clicking here
		  • **How to Interpret** ANOVA, Factorial, ANCOVA by clicking here
			Homework Due by Start of this Class (see previous day)
			HW - t-test - Select, Run, & Report Closes
			
			QUIZ Due by Start of this Class (see previous day)
			QUIZ - t-test- Select, Run, & Report Closes
			
			Prep for Quiz
			• Flashcards - **Select** and **Run** t-tests, ANOVA, Factorial, ANCOVA
			• Flashcards - **Select** and **Interpret** t-tests, ANOVA, Factorial, ANCOVA
			
			Homework Assignment Due at Beginning of Class Next Time
			HW - ANOVA, Factorial, ANCOVA - Select, Run, Report Opens
			QUIZ Due before the Beginning of Class Next Time
			QUIZ - ANOVA, Factorial, ANCOVA - Select, Run, Report 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 3			
M May 14 Monday	**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 and **INTERPRET** the results?	**Learning Activity to Prepare for Homework Assignment** • **TOPIC - Repeated Measures Analysis of Variance (RM ANOVA), and Split-Plot ANOVA** • **LEARN HOW TO:** • **How to Select** - Review from last class - Repeated Measures ANOVA & Split-Plot ANOVA Download • **How to Run** Repeated Measures ANOVA & Split-Plot ANOVA by clicking here • **How to Interpret** Repeated Measures ANOVA & Split-Plot ANOVA by clicking here	**Homework Due by Start of this Class** (see previous day) **HW - ANOVA, Factorial, ANCOVA - Select, Run, Report Closes** **QUIZ Due by Start of this Class** (see previous day) **QUIZ - ANOVA, Factorial, ANCOVA - Select, Run, Report Closes** **Homework Assignment Due at Beginning of Class Next Time** **HW - RM & Split-Plot ANOVA - Select, Run, Intepret 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 - RM & Split-Plot ANOVA - Select, Run, Interpret 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
W May 16 Wednesday	**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 and **INTERPRET** the results?	**Preparation for the Midterm Exam** • Midterm Preparation Exam Download • Data Set - Download • Answer Key - Download • Assessing Skew and Post Hoc tests - Download Devotional -- "learn to discern and understand [the Holy Ghost's] promptings -- Hannah	**Homework Due by Start of this Class** (see previous day) **HW - RM & Split-Plot ANOVA - Select, Run, Intepret Closes** **QUIZ Due by Start of this Class** (see previous day) **Quiz - RM & Split-Plot ANOVA - Select, Run, Interpret Closes**
Week 4			

M May 21 Monday	**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 and **INTERPRET** the results?	Practice until prepared for midterm based on gap analysis in previous class	
W May 23 Wednesday	**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 and **INTERPRET** the results?	**MIDTERM EXAM - t-tests / ANOVA - Select, Run, Interpret**	
Week 5			
M May 28 Monday	**Memorial Day**		

W May 30 Wednesday	**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 and **INTERPRET** the results?
		Learning Activity to Prepare for Homework Assignment
		TOPIC -
		• **Pearson Correlation, Partial Correlation, Phi-Coefficient, Point-Biserial, Spearman's Rho, Kendall's Tau**
		• **LEARN HOW TO:**
		  • **How to Select** - Pearson Correlation, Partial Correlation, Phi-Coefficient, Point-Biserial, Spearman's Rho, Kendall's Tau by clicking here Download
		  • **How to Run** - Pearson Correlation, Partial Correlation, Phi-Coefficient, Point-Biserial, Spearman's Rho, Kendall's Tau by clicking here
		  • **How to Interpret** - Pearson Correlation, Partial Correlation, Phi-Coefficient, Point-Biserial, Spearman's Rho, Kendall's Tau by clicking here
		
		Spencer -- How to get revelation.
			Homework Assignment Due at Beginning of Class Next Time
			HW - t-test / ANOVAs / Relationship - S - R - I Opens
			QUIZ Due before the Beginning of Class Next Time
			QUIZ - t-test / ANOVAs / Relationship - S - R - I 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
			
			Prep for Quiz
			• Flashcards - **Select** and Run **t-tests, ANOVAs, relationship methods**
			• Flashcards - **Select** and **Interpret t-tests, ANOVAs, relationship methods**

Week 6			
M Jun 04 Monday	**Expected Learning Outcome #1** - How do I **SELECT** the correct analyses for my research questions?	**Learning Activity to Prepare for Homework Assignment** **TOPIC -** • **Single-Linear Regression and Multiple-Linear Regression** • **LEARN HOW TO:**	**Homework Due by Start of this Class** (see previous day) **HW - t-test / ANOVAs / Relationship - S - R - I Closes**

	Expected Learning Outcome #2 -How do I **RUN** my own analyses and **INTERPRET** the results?	• **How to Select** - Linear Regressions by clicking here Download • **How to Run** - Single-Linear Regression and Multiple-Linear Regression by clicking **here** • **How to Interpret** - Single-Linear Regression and Multiple-Linear Regression by clicking **here** Holy Ghost -- Chanel	**QUIZ Due by Start of this Class** (see previous day) **QUIZ - t-test / ANOVAs / Relationship - S - R - I Closes** **Homework Assignment Due at Beginning of Class Next Time** **HW - t-tests, ANOVAs, relationship, regression - S R I Opens** ***Prep for Quiz*** • Flashcards - **Select** and Run **t-tests, ANOVAs, relationship, regression methods** • Flashcards - **Select** and **Interpret t-tests, ANOVAs, relationship, regression methods** **QUIZ** Due before the Beginning of Class Next Time **QUIZ - t-test / ANOVAs / Relationship / Regression - S - R - I 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
W Jun 06 Wednesday	**Expected Learning Outcome #1** - How do I **SELECT** the correct analyses	**Learning Activity to Prepare for Homework Assignment** **TOPIC -** • **Chi-square Test of Independence**	**Homework Due by Start of this Class** (see previous day) **HW - t-tests, ANOVAs, relationship, regression - S R I Closes**

	for my research questions? **Expected Learning Outcome #2** -How do I **RUN** my own analyses and **INTERPRET** the results?	• **LEARN HOW TO:** • **How to Select** - Download • **How to Run** - Chi-square Test of Independence by clicking **here** • **How to Interpret** - Chi-square Test of Independence by clicking **here** **Inclass Practice** • Practice Sheet - Download • Access Practice Sheet Key by clicking here Holy Ghost -- Jiahui	**QUIZ Due by Start of this Class** (see previous day) **QUIZ - t-test / ANOVAs / Relationship / Regression - S - R - I Closes** **Homework Assignment Due by the Beginning of Class Next Time** **HW - t-test/ANOVA/Rel/Reg/Indep - S R I Opens** ***Prep for Quiz*** • Flashcards - **Select** and Run **t-tests, ANOVAs, relationship - independence** • Flashcards - **Select** and **Interpret t-tests, ANOVAs, relationship - independence** **QUIZ** Due before the Beginning of Class Next Time **QUIZ - t-test/ANOVA/Rel/Reg/Indep - S R I 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 7			
M Jun 11 Monday		**Learning Activity to Prepare for Homework Assignment**	**Homework Due by Start of this Class** (see previous day)

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 and **INTERPRET** the results?

TOPIC -

- **Chi-square Goodness of Fit Test**
- **LEARN HOW TO:**
- **How to Select** - Draw Goodness of Fit from its corresponding decision point to the bottom of the sheet.
- **How to Run** - Chi-square Goodness of Fit Test by clicking **here**
- **How to Interpret** - Chi-square Goodness of Fit Test by clicking **here**
- **Problem Creation Activity** Download - email completed questions to ken_plummer@byu.edu

Heidi -- Holy Ghost

HW - t-test/ANOVA/Rel/Reg/Indep - S R I Closes

QUIZ Due by Start of this Class (see previous day)

QUIZ - t-test/ANOVA/Rel/Reg/Indep - S R I Closes

Homework Assignment Due by the Beginning of Class Next Time

HW - t-test/ANOVA/Rel/Reg/Indep/FIT - S R I Opens

Prep for Quiz

- Flashcards - **Select** and Run **t-tests, ANOVAs, relationship - independence - fit**
- Flashcards - **Select** and **Interpret t-tests, ANOVAs, relationship - independence - fit**

QUIZ Due before the Beginning of Class Next Time

QUIZ - t-test/ANOVA/Rel/Reg/Indep/FIT - S R I 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

W Jun 13 Wednesday	**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 and **INTERPRET** the results?	Practice AnnMarie -- Holy Ghost	**Homework Due by Start of this Class** (see previous day) **HW - t-test/ANOVA/Rel/Reg/Indep/FIT - S R I Closes** **QUIZ Due by Start of this Class** (see previous day) **QUIZ - t-test/ANOVA/Rel/Reg/Indep/FIT - S R I Closes**
Week 8			
M Jun 18 Monday	**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 and **INTERPRET** the results? Final Exam: 2146 LSB 2:30pm - 5:30pm	Final Exam Practice Hannah -- Holy Ghost	

T Jun 19 Tuesday	**Spring Exam Preparation (06/19/2018 - 06/19/2018)**		
W Jun 20 Wednesday	**First Day of Spring Final Exams (06/20/2018 - 06/21/2018)**	**The Final Exam** Spencer -- Holy Ghost	
Week 9			
Sa Jun 30 Saturday		Devotional -- "learn to discern and understand [the Holy Ghost's] promptings - Jiahui Devotional -- "learn to discern and understand [the Holy Ghost's] promptings -- Heidi **Practice - creating your own data sets** Devotional -- "learn to discern and understand [the Holy Ghost's] promptings-- Spencer	