

Instructor/TA Info

Instructor Information

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TA Information

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Course Information

Description

This course will help you establish the skills needed to develop, fund, design, analyze, and report research studies. You will participate in classroom discussions and activities that will gradually build up to the finished product of the course (an empirical research paper). The goal is for you to develop products that you could use later in your career. This course will also provide a solid foundation on which you can build a successful research career in psychology.

Prerequisites

PSYCH 210, PSYCH 307, PSYCH 308

Materials

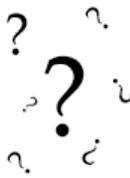
Item	Price (new)	Price (used)
 <u>RESEARCH METHODS IN PSYCHOLOGY 2E - Required</u> by MORLING, B	135.00	101.25

Choose 1 of the following options:

Option 1: 1 Item

 <u>REEF POLLING ACCESS CODE (1 YEAR ACCESS) - Required</u> by ICLICKER	25.30
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OR Option 2: 1 Item

	<u>IClicker+</u> - Required by ICLICKER	47.00	35.25
	<u>PUBLICATION MANUAL OF APA 6E</u> - Required by AM PSYCH ASSOC	29.95	22.50

Learning Outcomes

1. Critically review literature

Students will be able to critically review the literature to generate a testable hypothesis based on a summation of current research findings and scientific thought.

Measurement: Writing assignment.

2. Methodological designs

Students will be able to distinguish between methodological designs and implement and execute an appropriate design to test the hypothesis, demonstrating an understanding of and sensitivity to relevant ethical considerations, including how to identify and measure dependent variables and measure or control for independent and other variables critical to the design of the study.

Measurement: Multiple choice tests, short essays.

3. Written report of research

Students will be able to prepare a written report of the research project adhering to APA style in all aspects of presentation (e.g., format, figures/tables, referencing) in a format that would be suitable to submit to an APA journal.

Measurement: Writing assignment.

4. Present research orally

Students will be able to present the research orally to an audience of peers in either a paper or poster format.

Measurement: Presentation assignment.

5. Critically evaluate published research

Students will be able to critically evaluate the quality of published research.

Measurement: Writing assignment.

6. Technology and Effective Research

Use computers and other research-related technology to collect, access, manage, and interpret research information.

Achieving Learning Outcomes

(1) Be able to demonstrate that they understand and can apply basic research methods in psychology, including research design, data analysis, and interpretation of results in light of previous findings.

(2) Be able to use computers and other research-related technology to competently collect, access, and manage information, communication, and other purposes.

(3) Be able to express realistic ideas about how to implement their psychological understanding, skills, and values in occupational and family-related pursuits in a variety of settings.

(4) Be able to critically reflect on the content of psychology as well as on disciplinary values in light of their knowledge of and commitment to the restored gospel of Jesus Christ and to sustain personal values that are true to the gospel while maintaining their serious study of psychology.

LO

Understand why replication and meta-analysis are essential to understanding psychological research

Grading Scale

Grades	Percent
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A	93%
A-	90%
B+	87%
B	83%
B-	80%
C+	77%
C	73%
C-	70%
D+	67%
D	63%
D-	60%
E	0%

Grading Policy

Course Components

Your grade for this class will be based on points earned in the following categories:

1. Pop quizzes (50 points): There will be 10 pop quizzes throughout the course. You will be able to earn up to 5 points each. These quizzes will take place anytime during the class, but will usually take place within the first 5 minutes to encourage punctuality. These quizzes will cover major points from the assigned readings. Unexcused absences will not qualify for these points.

2. Attendance (50 points): Attendance will be taken at random 10 times during the semester. Those who attend those days will receive 5 points. Unexcused absences will not qualify for these points.

3. Writing assignments: The majority of the points in this class will be earned through 3 writing assignments. These assignments are meant to build on one another and to simulate the process of developing a project, obtaining IRB approval, conducting research, and reporting study results.

A. Write an ORCA grant (100 points). You will need to identify an area of interest, conduct a literature review of that topic, and write an ORCA grant to obtain funding for your research. Instructions for completing an ORCA grant can be found at <https://orca.byu.edu/orca/> (<https://orca.byu.edu/orca/>). This grant is for educational purposes only and your grade will NOT be contingent on actually submitting the grant to BYU's Office of Research & Creative Activities. This grant will be reviewed by the instructor and TA in accordance with the NIH grant scoring system

(https://grants.nih.gov/grants/peer/guidelines_general/scoring_system_and_procedure.pdf).

Real grant applications are funded "on a curve." Which means only the top grants (relative to those being reviewed) are funded. In this class, your grant score will be translated into a grade relative to your peers. That is to say, it will be graded "on a curve." When designing your proposal, ask yourself two key questions: (1) is the project important and (2) can you do it? If your answer is yes to both of those questions, then your next task is to convince the reviewers of those two points in a clear, concise, and compelling grant application. If your grant is funded you will be the Primary Investigator (PI) on that grant as you move it through the IRB, data collection, and reporting of the results. If your grant is not funded, you will become the co-PI on one of the funded grants in the class and collaborate as an equal partner to ensure the success of the funded project.

B. Complete an IRB Application (100 points). There are 9 sections in the IRB application. You and your research team will need to submit these sections to your TA in a single application (DO NOT send the application to the IRB). Instructions for completing the IRB application can be found at (<https://orca.byu.edu/irb/Forms.php> (<https://orca.byu.edu/irb/Forms.php>)). The research project will be conducted on your fellow students in this class. Your proposed project should adhere to the highest standards of ethics.

Your TA and I will serve as the IRB committee that will review your application for protection of human subjects and scientific integrity. If we have concerns, we will send the application back for you to correct.

C. Final paper (100 points). For the final paper, you will write up the results of your experiment. The paper should adhere to APA format including title page, abstract, introduction, methods, results, discussion, and references. The paper should be a minimum of 5 pages not including the title page and references. You should have at least 1 table, 1 figure, and 10 original research journal articles included in your references. For more guidance on this project, see the instructions (Research_Project.doc) in the Contents Tab.

4. Data collection and documentation (50 points). You will need to conduct your proposed research project in class as outlined in your IRB application. You will be given 10-15 minutes during a single class period to conduct your experiment including obtaining informed consent, collecting the data, and debriefing the participants. To obtain points for this assignment you will need to submit your CITI training certificate (10 points), lab notebook (20 points), and data files (20 points).

- Before you can conduct your project you will need to create a CITI account (<https://www.citiprogram.org/>) and complete the human subjects research module for conducting human subjects research at BYU.
- Laboratory documentation should be kept in a bound composition notebook with printed numbered pages. For the purposes of this class, you can use a blue book as your lab notebook. The study notebook should have a title page so that important sections can be easily identified. There should be no blacked out or erased information. If a correction is needed you simply draw a single line through the error so that the information can still be read. Your notes should be kept with a black pen with non-bleeding ink.
- Data files should be submitted in excel, SPSS, or SAS format. If you chose to submit the file in excel format you should provide a key describing what each column variable represents. If you submit SPSS or SAS files, all variables should be fully labeled and clearly defined.

5. Oral presentation (50 points). Once you have collected and analyzed your data you will present the results of your study in a 5-min data blitz during class (3 minutes for presentation and 2 minutes for question/answer). Your presentation can include up to 2 power point slides. You will obtain maximum points by staying within the 5-min time limit, so you will want to practice reciting your presentation before you present in class. Each member of the research team will need to create their own presentation.

6. Extra Credit: You will receive 10 extra credit points by completing the end of semester course evaluation.

Participation Policy

Lectures are designed to encourage participation. You will need to purchase an i-clicker from the BYU bookstore so that you can complete the in-class pop quizzes and other in-class activities.

During class discussions, please be mindful and respectful of your fellow students by:

1. Asking questions that are thoughtful, critical to understanding course material, and promote discussion. Before asking a question, reflect on whether it might help other students in the class, could be answered by reading the material, or might be best saved for discussion during office hours.
2. Be aware of how often you make comments. If you find you are making a lot of comments, make sure you are allowing others to participate by giving them time to respond. For those of you who are more reserved, maybe set a goal to make at least one comment every other week.

Attendance Policy

Students are expected to be on time and present for all classes. Attendance will be formally measured. As a matter of mutual courtesy, please let the instructor or TA know when you're going to be late, when you're going to miss class, or if you need to leave early. Students who have extraordinary circumstances preventing attendance, or who must leave early, should explain these circumstances to the instructor or TA prior to the scheduled class, or as soon as possible thereafter so that you can obtain the attendance points for those

days. The instructor will then make an effort to accommodate reasonable requests. You are responsible for the content of all classes, including issues raised in the spontaneous class discussions. If you must miss a class, please request notes from your classmates.

Classroom Procedures

When you are ready to conduct your experiment in class, please let the instructor know at least 1 week in advance so that time can be allotted during lecture for your study. On the day of your study, you will have 15 minutes to obtain informed consent and conduct the study. You can send the informed consent document to the other students prior to class via e-mail to leave yourself more time to collect the data in class.

Study Habits

Completing the assigned reading before class, attending all classes, and taking advantage of office hours will increase your chances of learning the material and doing well in this course. Study rooms in the library are a great place to study class material and can be reserved in the library at <https://groupstudy.lib.byu.edu/>.

Assignments

Assignment Descriptions

ORCA Grant

Feb
01

Due: Wednesday, Feb 01 at 11:59 pm

Quiz 3

Feb
09

Due: Thursday, Feb 09 at 11:59 pm

Here is the quiz that we were supposed to have today (2/8). Closed note/book. Thanks!

CITI Training

Feb
27

Due: Monday, Feb 27 at 11:59 pm

IRB Application

Mar
01

Due: Wednesday, Mar 01 at 11:59 pm

Quiz 7

Mar
08

Due: Wednesday, Mar 08 at 11:59 am

Ch 11 Quiz

Data Files

Apr
03

Due: Monday, Apr 03 at 11:59 am

Data Blitz

Apr
03

Due: Monday, Apr 03 at 11:59 am

All of you data is due this day. Make sure you collect all of your data before.

End of Semester Evaluation

Apr
10

Due: Monday, Apr 10 at 11:59 am

Quiz 10

Apr
14

Due: Friday, Apr 14 at 11:59 pm

Ch 12 Quiz

Attendance 1

Apr
19

Due: Wednesday, Apr 19 at 11:59 pm

Attendance 4

Apr
19

Due: Wednesday, Apr 19 at 11:59 pm

Quiz 4

Apr
19

Due: Wednesday, Apr 19 at 11:59 pm

Attendance 9

Apr
19

Due: Wednesday, Apr 19 at 11:59 pm

Quiz 5

Apr
19

Due: Wednesday, Apr 19 at 11:59 pm

Attendance 7

Apr
19

Due: Wednesday, Apr 19 at 11:59 pm

Attendance 6

Apr

Due: Wednesday, Apr 19 at 11:59 pm

19

Quiz 8

Apr
19

Due: Wednesday, Apr 19 at 11:59 pm

Quiz 6

Apr
19

Due: Wednesday, Apr 19 at 11:59 pm

Attendance 3

Apr
19

Due: Wednesday, Apr 19 at 11:59 pm

Quiz 1

Apr
19

Due: Wednesday, Apr 19 at 11:59 pm

Attendance 8

Apr
19

Due: Wednesday, Apr 19 at 11:59 pm

Attendance 2

Apr
19

Due: Wednesday, Apr 19 at 11:59 pm

Quiz 2

Apr
19

Due: Wednesday, Apr 19 at 11:59 pm

Quiz 9

Apr
19

Due: Wednesday, Apr 19 at 11:59 pm

Attendance 5

Apr
19

Due: Wednesday, Apr 19 at 11:59 pm

Attendance 10

Apr

Lab Book**Final Paper****Point Breakdown**

Categories	Percent of Grade
Pop quizzes	9.64%
Attendance	10.04%
Documentation	10.04%
Writing Assignments	60.24%
Oral Presentation	10.04%
Extra Credit	0%

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

As required by Title IX of the Education Amendments of 1972, the university prohibits sex discrimination against any participant in its education programs or activities. Title IX 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 any university employee in a teaching, managerial, or supervisory role to report incidents of sexual misconduct that come to their attention through various forms including face-to-face conversation, a written class assignment or paper, class discussion, email, text, or social media post. If you encounter Sexual Misconduct, please contact the Title IX Coordinator at t9coordinator@byu.edu or 801-422-2130 or Ethics Point at <https://titleix.byu.edu/report> (<https://titleix.byu.edu/report>) or 1-888-238-1062 (24-hours). Additional information about Title IX and resources available to you can be found at <http://titleix.byu.edu> (<http://titleix.byu.edu>).

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.

Academic Honesty

The first injunction of the Honor Code is the call to "be honest." Students come to the university not only to improve their minds, gain knowledge, and develop skills that will assist them in their life's work, but also to build character. "President David O. McKay taught that character is the highest aim of education" (The Aims of a BYU Education, p.6). It is the purpose of the BYU Academic Honesty Policy to assist in fulfilling that aim. BYU students should seek to be totally honest in their dealings with others. They should complete their own work and be evaluated based upon that work. They should avoid academic dishonesty and misconduct in all its forms, including but not limited to plagiarism, fabrication or falsification, cheating, and other academic misconduct.

Deliberation Guidelines

To facilitate productive and open discussions about sensitive topics about which there are differing opinions, members of the BYU community should: (1) Remember that we are each responsible for enabling a productive, respectful dialogue. (2) To enable time for everyone to speak, strive to be concise with your thoughts. (3) Respect all speakers by listening actively. (4) Treat others with the respect that you would like them to treat you with, regardless of your differences. (5) Do not interrupt others. (6) Always try to understand what is being said before you respond. (7) Ask for clarification instead of making assumptions. (8) When countering an idea, or making one initially, demonstrate that you are listening to what is being said by others. Try to validate other positions as you assert your own, which aids in dialogue, versus attack. (9) Under no circumstances should an argument continue out of the classroom when someone does not want it to. Extending these conversations beyond class can be productive, but we must agree to do so respectfully, ethically, and with attention to individuals' requests for confidentiality and discretion. (10) Remember that exposing yourself to different perspectives helps you to evaluate your own beliefs more clearly and learn new information. (11) Remember that just because you do not agree with a person's statements, it does not mean that you cannot get along with that person. (12) Speak with your professor privately if you feel that the classroom environment has become hostile, biased, or intimidating. Adapted from the Deliberation Guidelines published by The Center for Democratic Deliberation.

(<http://cdd.la.psu.edu/education/The%20CDD%20Deliberation%20Guidelines.pdf/view?searchterm=deliberation%20guidelines>)

Devotional Attendance

Brigham Young University's devotional and forum assemblies are an important part of your BYU experience. President Cecil O. Samuelson said, "We have special and enlightening series of devotional and forum assemblies...that will complement, supplement, and enrich what will also be a very productive period in your classrooms, laboratories, and libraries. We look forward to being with you each Tuesday...and hope that you will regularly attend and bring your friends and associates with you...A large part of what constitutes the unique 'BYU experience' is found in these gatherings where the Spirit has been invited and where we have the opportunity to discuss and consider things of ultimate worth and importance that are not afforded to the academic community on almost any other campus" (from the address "The Legacy of Learning", 30 August, 2005). Your attendance at each forum and devotional is strongly encouraged.

Inappropriate Use Of Course Materials

All course materials (e.g., outlines, handouts, syllabi, exams, quizzes, PowerPoint presentations, lectures, audio and video recordings, etc.) are proprietary. Students are prohibited from posting or selling any such course materials without the express written permission of the professor teaching this course. To do so is a violation of the Brigham Young University Honor Code.

Mental Health Concerns

Mental health concerns and stressful life events can affect students' academic performance and quality of life. BYU Counseling and Psychological Services (CAPS, 1500 WSC, 801-422-3035, caps.byu.edu) provides individual, couples, and group counseling, as well as stress management services. These services are confidential and are provided by the university at no cost for full-time students. For general information please visit <https://caps.byu.edu> (<https://caps.byu.edu>); for more immediate concerns please visit <http://help.byu.edu> (<http://help.byu.edu>).

Plagiarism

Intentional plagiarism is a form of intellectual theft that violates widely recognized principles of academic integrity as well as the Honor Code. Such plagiarism may subject the student to appropriate disciplinary action administered through the university Honor Code Office, in addition to academic sanctions that may be applied by an instructor. Inadvertent plagiarism, which may not be a violation of the Honor Code, is nevertheless a form of intellectual carelessness that is unacceptable in the academic community. Plagiarism of any kind is completely contrary to the established practices of higher education where all members of the university are expected to acknowledge the original intellectual work of others that is included in their own work. In some cases, plagiarism may also involve violations of copyright law. Intentional Plagiarism-Intentional plagiarism is the deliberate act of representing the words, ideas, or data of another as one's own without providing proper attribution to the author through quotation, reference, or footnote. Inadvertent Plagiarism-Inadvertent plagiarism involves the inappropriate, but non-deliberate, use of another's words, ideas, or data without proper attribution. Inadvertent plagiarism usually results from an ignorant failure to follow established rules for documenting sources or from simply not being sufficiently careful in research and writing. Although not a violation of the Honor Code, inadvertent plagiarism is a form of academic misconduct for which an instructor can impose appropriate academic sanctions. Students who are in doubt as to whether they are providing proper attribution have the responsibility to consult with their instructor and obtain guidance. Examples of plagiarism include: Direct Plagiarism-The verbatim copying of an original source without acknowledging the source. Paraphrased Plagiarism-The paraphrasing, without acknowledgement, of ideas from another that the reader might mistake for the author's own. Plagiarism Mosaic-The borrowing of words, ideas, or data from an original source and blending this original material with one's own without acknowledging the source. Insufficient Acknowledgement-The partial or incomplete attribution of words, ideas, or data from an original source. Plagiarism may occur with respect to unpublished as well as published material. Copying another student's work and submitting it as one's own individual work without proper attribution is a serious form of plagiarism.

Respectful Environment

"Sadly, from time to time, we do hear reports of those who are at best insensitive and at worst insulting in their comments to and about others... We hear derogatory and sometimes even defamatory comments about those with different political, athletic, or ethnic views or experiences. Such behavior is completely out of place at BYU, and I enlist the aid of all to monitor carefully and, if necessary, correct any such that might occur here, however inadvertent or unintentional. "I worry particularly about demeaning comments made about the career or major choices of women or men either directly or about members of the BYU community generally. We must remember that personal agency is a fundamental principle and that none of us has the right or option to criticize the lawful choices of another." President Cecil O. Samuelson, Annual University Conference, August 24, 2010 "Occasionally, we ... hear reports that our female faculty feel disrespected, especially by students, for choosing to work at BYU, even though each one has been approved by the BYU Board of Trustees. Brothers and sisters, these things ought not to be. Not here. Not at a university that shares a constitution with the School of the Prophets." Vice President John S. Tanner, Annual University Conference, August 24, 2010

Schedule

Date	Assignments Due	Reading and Lecture Topics
Week 1		
Sa Nov 26 Saturday		
Week -44		

M Jan 09 Monday		Syllabus ORCA, the IRB, & CITI certification
W Jan 11 Wednesday		Discuss research ideas
F Jan 13 Friday		
Week -43		
M Jan 16 Monday	Martin Luther King Jr Day	
W Jan 18 Wednesday		Before Class, Read Chapter 1
F Jan 20 Friday		
Week -42		
M Jan 23 Monday		Before Class, Read Chapter 2
W Jan 25 Wednesday		
F Jan 27 Friday		
Week -41		
M Jan 30 Monday		Before Class, Read Chapter 3
W Feb 01 Wednesday	ORCA Grant	
F Feb 03 Friday		
Week -40		
M Feb 06 Monday		Before Class, Read Chapter 4
W Feb 08 Wednesday		
Th Feb 09 Thursday		
F Feb 10 Friday		
Week -39		
M Feb 13 Monday		Before Class, Read Chapter 5
W Feb 15 Wednesday		
F Feb 17 Friday		
Week -38		
M Feb 20 Monday	Presidents Day	
T Feb 21 Tuesday	Monday Instruction	Before Class, Read Chapter 6
W Feb 22 Wednesday		
F Feb 24 Friday		
Week -37		

M Feb 27 Monday	CITI Training	Before Class, Read Chapter 10
W Mar 01 Wednesday	IRB Application	
F Mar 03 Friday		
Week -36		
M Mar 06 Monday		Before Class, Read Chapter 11
T Mar 07 Tuesday		
W Mar 08 Wednesday		
F Mar 10 Friday		
Week -35		
M Mar 13 Monday		Before Class, Read Chapter 7
W Mar 15 Wednesday		
F Mar 17 Friday	No Classes	
Week -34		
M Mar 20 Monday		Before Class, Read Chapter 9
W Mar 22 Wednesday		
F Mar 24 Friday		
Week -33		
M Mar 27 Monday		
W Mar 29 Wednesday		
F Mar 31 Friday		
Week -32		
M Apr 03 Monday	Data Blitz Data Files	Before Class, Read Chapter 12
W Apr 05 Wednesday		
F Apr 07 Friday		
Week -31		
M Apr 10 Monday	End of Semester Evaluation	
W Apr 12 Wednesday		Before Class, Read Chapter 13 This is not a mandatory reading. Mostly it is review of quasi- experimental studies which we have already covered in class.
Th Apr 13 Thursday		
F Apr 14 Friday		

Week -30		
M Apr 17 Monday		Before Class Read Chapter 8
W Apr 19 Wednesday		
Th Apr 20 Thursday	Winter Exam Preparation (04/20/2017 - 04/20/2017)	
F Apr 21 Friday	First Day of Winter Final Exams (04/21/2017 - 04/26/2017)	
Sa Apr 22 Saturday	Final Paper Lab Book	
Week -29		
M Apr 24 Monday		
W Apr 26 Wednesday		
Week -28		
Sa May 06 Saturday		