

Grand Valley State University

Psychology 300 Hybrid: Research Methods in Psychology

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Office Hours (Virtual) Email for an appointment. Include your availability. Appointments can be made via email. Please indicate your course and section as well as the reason for your visit in your initial email.

Rooms and Class Times

PSY300 (15): TR 2:30 – 3:45pm; Kindschi Hall of Science (KHS) 1121

PSY300 (13): TR 4:00 – 5:15pm; Kindschi Hall of Science (KHS) 1116

Course Description: A general introduction to research methods in psychology. Topics covered include theory development and hypothesis testing; measurement; reliability and validity of methods; experimental, quasi-experimental, and survey research designs; biases in experimentation; inferential and descriptive statistics; and research ethics.

Objectives: The aim of this course is to acquaint students with basic research methods in psychology while exploring practical, theoretical, and ethical issues regarding research design and its implementation in psychology. Upon successful completion of this course students will be able to: (1) analyze the writing of a [lab report/case study/peer reviewed article]: identifying the author's target audience, purpose, tone, context, and the ways the textual form and style achieves its function. (2) demonstrate an effective scientific writing process. (3) identify the strengths and weaknesses of their own writing processes. (4) design an empirical study consistent with the standards of psychological science.

SWS: This course is designated SWS. Completion of WRT 150 with a grade of C or better (not C-) is a prerequisite. SWS credit will not be given to a student who completes this course before completing the prerequisite. SWS courses adhere to certain guidelines. Students turn in a total of at least 3000 words of writing. Part of that total may be essay exams, but a substantial amount of it is made up of essays, reports, or research papers. The instructor works with the students on revising drafts of papers, rather than simply grading the finished piece of writing. At least four hours of class time will be devoted to writing instruction. At least one third of the final grade in the course is based on the writing assignments. Students must complete the course with a grade of "C" or better in order to receive SWS credit.

The Fred Meijer Center for Writing, with locations at the Allendale and Pew/Downtown Grand Rapids campuses, is a peer service available to assist you

with writing for any of your classes. Writing consultants, who are fellow GVSU students, are trained to help you with all stages of your writing process, from brainstorming to organizing to editing your papers. Simply bring an idea, prompt, or draft of your paper along with the assignment sheet to any of the Center's locations. Also, through your Gmail account, you have access to online consultations through Google Docs. The Center's services are free and you can drop in and work with a consultant or make an appointment, either through our website or by calling the Center (331-2922). Peer support is available for research and speech/presentation through the Knowledge Market, where the Writing Center partners with the Speech Lab and the Peer Research Center. Additional information about the [Knowledge Market](#) and Writing Center services and locations can be found on our website.

Course Prerequisites:

PSY 101, STA 215, and WRT 150. You may not take any of these prerequisite courses concurrently with PSY 300.

Required Text: Jhangiani, R., Chiang, I., Cuttler, C., & Leighton, D. (2019). *Research Methods in Psychology* (4th ed.).

****Note that this is an Open Access textbook, and copies are freely available online by downloading from this link: <https://kpu.pressbooks.pub/psychmethods4e/>**

If you'd like a physical copy of the book, it is available through Amazon.

Research articles, supplemental readings, and lecture notes will be posted on BlackBoard.

Supplementary texts: see course documents section of BlackBoard for more information

Mitchell, M. & Jolley, J. (2007). *Research Design Explained* (7th ed). Belmont: Wadsworth

American Psychological Association (2010). *Publication Manual of the American Psychological Association*. (6th ed). Washington, DC: Author.

Copies are available in Pew Library: BF76.7 .P83 2010

*Please DO NOT use pocket or non-APA published versions of this manual. Most have a number of mistakes (this includes some guides that are assigned in writing classes)

Grade Evaluation:

	Description	Weight
Homework	Homework assignments will be assigned throughout the semester. Unless the assignment is very small, you will be given at least 1 week to complete the assignment.	10%
Exams	There will be 3 exams evenly dispersed throughout the course. They may be multiple choice, short or long answer depending on the material being tested. While exams will be focused on the material covered since the last exam, material covered earlier in the course generally serves as a basis for those covered later.	16.66% per exam 50% of total grade.
Research Proposal Draft	This will be a rough draft of your research proposal. It will include a brief literature review and the proposed methods, results, and implications of a two-variable experiment or quasi-experiment. Additional information concerning this assignment will be posted on BlackBoard.	15%
Research Proposal	The final draft of your APA style research proposal.	15%
Peer Evaluations	Peer evaluation of your research project partners.	10%

Grades will be determined by adjusting the class average to 76% (B) and assigning letter grades based on the below distribution. Thus, your grade in this class is based on your performance relative to the rest of the class. Notice that the grading distribution below is much more lenient than what most of you are used to. (this is to avoid ceiling effects in the grading distribution)

This is a *tentative* grade distribution

Rating	Letter Grade	Grade Point Value	Percentage Grades
Excellent	A	4.0	90-100%
Excellent	A-	3.7	85-89%
Good	B+	3.3	80-84%
Good	B	3.0	75-79%
Good	B-	2.7	70-74%
Satisfactory	C+	2.3	65-69%
Satisfactory	C	2.0	60-65%
Satisfactory	C-	1.7	55-59%
Poor	D+	1.3	50-54%
Minimal Pass	D	1.0	45-49%
Failure	F	0	0-44%

Missed Exam/Assignment:

As many of you do not have adequate health coverage I do not require health certificates for absences for missed classes. However, if you miss more than 1 scheduled exam or homework I may require that you to provide a certificate from a certified health professional. *If you miss an exam, you must report your illness to me within 48 hours of the exam/assignment due date.* In the case of a missed exam or assignment, I will either give an extension or have the weight of the missed examination/assignment added to the remaining assignments/exams.

Missed Class: I do not take attendance. This is a university level course and you are adults. While I both appreciate and encourage attendance, I consider this to be a choice that you should feel free to make relative to your life circumstances. Sometimes emergencies happen...I don't feel as though you should be punished for this. That said, you will likely find that in order to do well on my exams, attendance and a fair amount of studying will be necessary. I do ask that if you miss class for a non-legitimate reason that you do not add to my workload by asking me to re-iterate what you missed. For those who do miss class for a legitimate reason I recommend that you ask a peer for their notes, do the readings and come and see me during office hours if you have any questions. Due dates for homework assignments will not be extended for absences (except under extenuating circumstances), so please make sure to consult with a friend in the class to make sure you complete everything on time.

Email/Important Communication:

Please type your name, course number, and section number into the titles of your emails. Emails that have no identifying information make me want to stab myself with a rusty spoon.

In the case that you are notifying me about a medical condition, absence, or other important aspect of the course, please do so via email. I will always provide a confirmation note that I have received these types of email within 24 hours. If I have not done so, assume that I have not received your email and send another.

Student Responsibilities:

ACADEMIC INTEGRITY: Grand Valley State University is committed to the highest standards of academic integrity and honesty. Students are expected to be familiar with these standards regarding academic honesty and to uphold the policies of GVSU in this respect. Students are particularly urged to familiarize themselves with the provisions of the *Code of Student Behaviour* (online at <http://www.gvsu.edu/studentcode/index.cfm>) and avoid any behaviour which could potentially result in suspicions of cheating, plagiarism, misrepresentation of facts and/or participation in an offence. Academic dishonesty is a serious offence and can result in suspension or expulsion from GVSU. No student shall represent another's substantial editorial or compositional assistance on an assignment as their own. Furthermore, no student

shall submit in any course or program of study, without the written approval of the course instructor, all or a substantial portion of any academic writing, essay, thesis, research report, project assignment, presentation or poster for which credit has been obtained by the student or which has previously been or is being submitted by the student in another course or program of study at GVSU or elsewhere. All forms of dishonesty are unacceptable at GVSU. Cheating, plagiarism and misrepresentation of facts are serious offenses. Anyone who engages in these practices will receive a grade of zero for the exam or paper in question and no opportunity will be given to replace the grade or redistribute the weights. Any offense will be reported to the Dean of the CLAS who will determine the disciplinary action to be taken.

STUDENTS WITH DISABILITIES: If there is any student in this class who has special needs because of a learning, physical, or other disability, please contact me and Disability Support Services (Room 200 STU; 616 331 2490). Furthermore, if you have a physical disability and think you will need assistance evacuating this classroom and/or building in an emergency, please make me aware so that I can develop a plan to assist you.

ACADEMIC SUPPORT CENTRE: Students who require additional help in developing strategies for better time management, writing, study or examination skills should contact the Advising Resource Centre (C-1-140 MAK).

General Course Policies:

This course is subject to the GVSU policies listed at <http://www.gvsu.edu/coursepolicies/>

Disclaimer: This syllabus is subject to change. Any changes will be announced in class.

Tentative Lecture Schedule & Assigned Readings:		
<i>Week 1</i>		
Topic	<i>Introduction</i> What is science?	Syllabus
Readings	<i>Evidence Based Learning Strategies</i>	Bjork et al., 2013 Jhangiani et al. (Chapter 1)

** You are responsible for understanding the content of the assigned reading, regardless of whether this content is discussed in class.*

RESEARCH PROPOSAL

Research Proposal Objectives

The research proposal in this class is designed to stimulate critical scientific thinking and to introduce you to a new area of psychology while simultaneously developing your understanding of research methods and introducing you to APA format and proper standards in scientific writing. In this assignment you will propose a study that will test a novel hypothesis. Completing this project will involve a series of sequential steps that will lead you to your final product; A 6-12 page APA style paper that will outline the theoretical rationale, methods, results and conclusions pertinent to your research question.

Description of Research Proposal

You propose a novel study in any area of psychology and, in doing so, will conduct a literature review and utilize psychological theory and your knowledge of research methods to test a hypothesis that follows from a research question that you are interested in.

Both the development of your idea and the process of writing an APA style research report will occur through in-class and group discussions, homework assignments (below), lecture instruction and iterative feedback on your proposal drafts.

Homework 1 – Drawing from personal interest, popular media, reputable news outlets, or class lecture, submit two paragraphs outlining two topics in psychology that you are interested in and may serve as the topic of your research proposal (e.g. Persuasion, Body Image, Lying). In your description of these two topics provide operational definitions and explain the importance of understanding this topic for the betterment of society.

Homework 2 – Use Psyc Info in finding four peer-reviewed, empirically based research articles/reviews of your research topics (two articles per topic). Provide a half-page summary of each topic that your articles discuss. Explain any ideas that you have that might extend the ideas discussed in the research articles that could serve as the basis for Homework 3

Homework 3 - Due October (15-points)

Based off of any peer-reviewed psychology article that interests you, propose a two-condition experiment that extends the findings of the study in some interesting way.

Please include the following in your submission:

- A paragraph summarizing the research in the article you chose and what your proposed study would show.
- Your proposed design (Within vs. Between)
- The operational definitions of your IV and DV
- Your hypotheses (include short form of null and alternative hypotheses)
- Details on what variables will be controlled or randomized in order to ensure the internal validity
- Your predictions (using APA statistical format, provide condition means, standard deviations, and number of participants)

Homework 4 – With your partner choose a topic and propose an experiment or quasi-experiment with two independent variables and a single dependent variable that tests an interactive prediction. The first paragraph will introduce your topic and the background research related to it. A second paragraph will provide your research question, and operational definitions of your variables. You will also provide a 2x2 table showing your experimental conditions and the predicted results of your study (similar to the in-class factorial exercises). You will receive feedback on your ideas and will be asked to revise this assignment until your proposed design is free of confounds and provides a systematic test of your research question. One proposal will be submitted per research team.

Assignment 1: Research Proposal Draft

You and your partner must propose an *experimental* or **quasi-experimental** design to test your hypothesis. The proposed study should predict an *interaction* and contain two independent variables. One or both of these variables *should be manipulated*. (That is, there should be a treatment and a control condition.) Your *independent* variables can be categorical (nominal) or continuous (ratio, interval or ordinal), but your dependent variable must be continuous. You are permitted to use one non-manipulated variable if it suits your design (ie: age, self-esteem, gender, personality characteristics).

Your proposed study in APA manuscript format. Include a cover page (title, header, running head, page numbers, authors, institution affiliation etc.) abstract, introduction, methods, proposed results (with or without illustrative table), and a reference section. You do not need a discussion section at this point, but feel free to include one if you're feeling keen.

What I am expecting is a draft of an APA paper. In each section, simply provide an effective description of what you're planning. I am not expecting that this draft be perfect, but the more comprehensive it is, the better feedback (and grade) you will get.

Abstract – 150-250 word summary of the project

Introduction – An introduction describing previous literature in the area and the relevance of what you want to do. End this section with a summary of the literature reviewed, your research question and predictions.

Method – Tell me what type of design you are using (within/between subjects?)

Hint: While you are not going to actually run this study, I do expect that you make an effort to propose something that would be reasonable to do in real life.

Results – What are you expecting to find? Be sure to predict an interaction between your two independent variables. Please provide a fake graph or table of your predicted results. You do not need to describe your data analysis techniques in this draft.

Discussion – While it should be clear from your introduction, you could include a paragraph on why finding the predicted results would be important. This is an **optional** section for this assignment.

References – Use in-text citations throughout the paper and include an APA format references section.

Tentative Grading Scheme for Assignment 1:

APA formatting (Includes references section)	Note that APA manuscript formatting is different from the published formatting!	5 Marks
Literature Review	Does it cover a reasonable amount of research in the area (ie: 10 articles that are pertinent)	10 Marks
Research Idea	Does it make sense relative to the previous literature?	10 Marks
	Is it a novel idea?	
	Is the idea conveyed clearly?	
	Is the idea psychological?	
Methods	Are variables described properly?	10 Marks
	Are the proposed methods suitable for testing the idea?	
Results	Do the predicted results match with the theoretical background?	10 Marks
	Is an interaction predicted?	
	Are the expected results communicated clearly?	

Assignment total /45

Final Research Proposal (Assignment 2)

This paper should be APA format research report that addresses a novel research question. Paper length is not set, however most projects that receive good grades are approximately 8-12 pages in length. The originality and relative contribution of the research will be graded in addition to the cohesiveness and clarity of the paper, the accuracy of the statistical techniques employed and the strength of the literature review and discussion sections.

APA formatting (Includes references section)	Note that APA manuscript formatting is different from the published formatting!	5 Marks
Overall Readability	Grammar, spelling, overall clarity in explaining psychological concepts	5 Marks
Research Idea	Does it make sense relative to the previous literature?	10 Marks
	Is it a novel idea?	
	Is the idea conveyed clearly?	
	Is the idea psychological?	
Research Design and Methods	Are variables described properly?	10 Marks
	Are the proposed methods suitable for testing the idea?	
Proposed analysis and Results	Do the predicted results match with the theoretical background?	10 Marks
	Is an interaction predicted?	
	Are the expected results communicated clearly?	
	Has the right statistical test been chosen and described?	
Discussion, implications and directions for future research	Are the findings described relative to previous literature? Do the implications make sense relative to the pattern of observed results? Do the directions for future research directly address or extend the current findings?	10 Marks

Assignment total /50