

## PSY 300 – 09 – Research Methods in Psychology (SWS)

Fall 2024, MWF 11:00 am - 11:50 am in ASH 2119

THIS SYLLABUS IS SUBJECT TO CHANGE. Changes will be announced via email and/or Blackboard Ultra.

**Instructor:** Ying Wang, Ph. D.  
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(Email is the best way to reach me. If you put **your class number (300) and section number (09)** in the subject line of your email, you typically receive a response within 1-2 business days. If you don't put your class number and section number in the subject line of your email, it will take longer time to receive a response.)

### Office Hours:

- M&W&F **1:00-2:00pm** in person/over Zoom at **ASH 2110** (Please click the following link to schedule your appointment for a time slot at least one-day in advance: <https://wangying.youcanbook.me>)
- By appointment (please email me and we can discuss other possibilities)

### Required Textbook:

*Research Methods in Psychology, (4th ed; Beth Morling, 2021)- ISBN: 978-0-393-89370-0*

### Recommended:

- *Publication Manual of the American Psychological Association, 7<sup>th</sup> Edition* (available at the library)

**Course description:** The world is awash in research and claims, but how can you tell which research and claims to believe? This course will teach you to look at the world like a research psychologist. You will learn basic research methods in psychology, including the ethics of conducting research, the logic of psychological research, the formulation and testing of hypotheses, different types of research designs, sampling procedures, data collection and analysis. In addition to learning to be a critical consumer of research, this course will strengthen your ability to communicate about the research with training in writing and presentation like a psychologist.

**Learning Objectives:** Upon successful completion of this course, students will be able to:

- 1) Describe the details of, and summarize the essence of, research articles.
- 2) Design an empirical study consistent with the standards of psychological science.
- 3) Write and present clearly and cogently in a scientific way.

### Course Evaluation:

Attendance and Participation (50 points): Learning is a social process and happens best when you are present and engaged (paying attention). I will be tracking attendance by passing around a sign-in sheet at the beginning of each class and noting your participation. It is your responsibility to be sure that you have signed in. Please email me if you know ahead of time that you will miss class for extenuating circumstances. The attendance will be worth 50 points.

**ATTENTION: Exams will be in the 4<sup>th</sup>, 7<sup>th</sup> and 12<sup>th</sup> week, please take it punctually.**

Assignments (170 points):

- **Pre-Test Survey** (10 points for completing): You will complete the survey in the 1st week.
- **Syllabus Quiz** (10 points): You will complete a short syllabus quiz in the 1st week of class.
- **Lab Reports** (150 points): There will be 3 lab reports due over the course of the semester. Each of the 3 lab reports will be worth 50 points. A late submission will be marked down by 50%.

Exams (3 x 100 points = 300 points): There will be **THREE** within semester exams. Each exam will consist multiple-choice and short-answer questions over the course of the semester. On exam days, students will be responsible for attending class and bringing a laptop, tablet, or other mobile device compatible with Blackboard Ultra to class. The exams are closed book and closed notes and are designed to enhance YOUR learning. They will evaluate what you have learned in the readings and through lectures, in-class activities, and videos. Please note that due dates are firm and attempts at exams will not be allowed after the deadline. Each exam will be worth 100 points.

**Policy for missed exams.** Make-up exams will not be honored except under validated circumstances. Students with documentations that can substantiate legitimate reasons for missing a scheduled exam could be given make-up exams consisting of **ONLY** essay questions. Please notify me by email **as soon as you can**. Students without legitimate reasons for missing any scheduled exams in this syllabus will receive “0”.

Research Projects (480 points):

- **Mini Literature Review: Each student will individually** complete a mini literature review on a topic chosen from the research topic list (which will be provided in the 2<sup>nd</sup> week). Once your research topic is chosen, I will provide you with a small collection of papers to do literature review (**due by 11:59pm on Sunday, 10/6**). You are welcome to search as many relevant papers of the topic as you find interesting. The review will include *at minimum* 5 research articles and will be approximately 1000 – 1200 words in length (~ 3–4 pages double-spaced, 1” margins, 12 pt. font without title page and references). The literature review is an essential part of final proposal paper and students will incorporate it into research proposal. The mini literature review will be worth 100 points.
- **Research Proposal and Presentation (Choose either one):**
  1. Individual Project (proposal + presentation): **Each student** will individually complete an APA-style research proposal. The individual research proposal will be approximately 2000 – 3000 words in length (~ 7–9 pages double-spaced, 1” margins, 12 pt. font without title page, abstract page and references). Students will receive instructor feedback about the proposal draft (**due by 11:59pm on Sunday, 11/3**) and after making revisions, each student will turn in their revised version as their complete proposal (**due by 11:59pm on Sunday, 12/1**). Students will also have the opportunity to write an “Analysis Plan” section outlining proposed statistical analyses for extra credit (maximum of 20 points possible). The research **proposal draft** and **proposal complete** will be worth 120 and 140 points, respectively. At last, each student will be responsible for delivering a 15-minute research **presentation of the research proposal** in class. The research presentation will be worth 120 points.
  2. Group Project (3-4 students; proposal + presentation): **Each group** will complete an APA-style research proposal. The team research proposal will be approximately 4000 – 5000 words in length (~ 14–16 pages double-spaced, 1” margins, 12 pt. font without title page, abstract page and references). Students will receive instructor feedback about the proposal draft (**due by 11:59pm on Sunday, 11/3**) and after making revisions, each group will turn in their revised version as their complete proposal (**due by 11:59pm on Sunday, 12/1**). Research groups will also have the opportunity to write an “Analysis Plan” section outlining proposed statistical analyses for extra credit (maximum of 20 points possible **for each student**). The research **proposal draft** and **proposal complete** will be worth 120 and 140 points, respectively. At last, each research group will be responsible for delivering a formal **presentation of their research proposal** by group members in class. The research presentation will be worth 120 points. Group members will grade each other’s contribution to the group’s proposal and presentation. The averaged group members’ evaluation of your contribution will count towards 60/380 of your group project grade.

## Grading:

As indicated above, credit for this course will be based on student performance in these areas. You can track your grades here:

| <b>Student Assignments:</b>           | <b>Points Possible:</b> |
|---------------------------------------|-------------------------|
| Attendance and Participation          | 50                      |
| Pre-test Survey (for completion)      | 10                      |
| Syllabus Quiz                         | 10                      |
|                                       |                         |
| <b>Lab Reports</b>                    |                         |
| #1                                    | 50                      |
| #2                                    | 50                      |
| #3                                    | 50                      |
|                                       |                         |
| <b>Exams</b>                          |                         |
| #1                                    | 100                     |
| #2                                    | 100                     |
| #3                                    | 100                     |
|                                       |                         |
| <b>Research Projects</b>              |                         |
| • <i>Mini Lit Review</i>              | 100                     |
| • <i>Research Proposal (draft)</i>    | 120                     |
| • <i>Research Proposal (complete)</i> | 140                     |
| • <i>Research Presentation</i>        | 120                     |
|                                       |                         |
| <b>Extra Credit (Analysis Plan)</b>   | [up to 20]              |
|                                       |                         |
| <b>Total Points Earned</b>            | <b>1,000</b>            |

Grading scale to determine your final grade for the course:

| <b>Grade:</b> | <b>Percentage :</b> | <b>Points Needed:</b> |
|---------------|---------------------|-----------------------|
| A             | 93% and above       | at least 925          |
| A-            | 90% - 92%           | at least 895          |
| B+            | 87% - 89%           | at least 865          |
| B             | 83% - 86%           | at least 825          |
| B-            | 80% - 82%           | at least 795          |
| C+            | 77% - 79%           | at least 765          |
| C             | 73% - 76%           | at least 725          |
| C-            | 70% - 72%           | at least 695          |
| D+            | 67% - 69%           | at least 665          |
| D             | 63% - 66%           | at least 625          |
| F             | 62% or lower        | 624 or fewer          |

## Course Schedule:

|                   | Dates                                    | Topic   | Readings & Assignments   |
|-------------------|--|---|--|
| Week 1            | Aug 26, 28, 30                           | <ul style="list-style-type: none"> <li>Class Overview</li> <li>Scientific Research</li> </ul>   | <b>Syllabus Quiz (due by 8/30)</b><br><b>Pre-test survey (due by 8/30)</b>   |
| Week 2            | Sep 4, 6                                 | <ul style="list-style-type: none"> <li>How Scientists Work?</li> <li>How To: Read an Empirical Article</li> </ul>                                     | Select a Research Topic & Form the group<br>Read: Ch. 1 & Ch. 2  |
| Week 3            | Sep 9, 11, 13                            | <ul style="list-style-type: none"> <li>Hypothesis Development</li> <li>Writing workshop I: Mini Literature Review</li> </ul>                          | <b>Turn in the Research Topic &amp; Group List (due by 9/13)</b><br><b>Lab #1 (Critique Scientific Articles) (due by 9/15)</b> |
| Week 4            | Sep 16, 18, 20                           | <ul style="list-style-type: none"> <li>Three Claims, Four Validities</li> <li>Review Study Guide for Exam 1</li> </ul>                                | Read: Ch. 3<br><b>Exam #1 (Ch. 1-3) (due on 9/20)</b>  |
| Week 5            | Sep 23, 25, 27                           | <ul style="list-style-type: none"> <li>Ethical Guidelines</li> <li>Plagiarism</li> <li>APA style</li> </ul>   | Read: Ch. 4<br><b>Lab #2 (Plagiarism &amp; APA style) (due by 9/29)</b>  |
| Week 6            | Sep 30, Oct 2, 4                         | Reliability & Validity  | Read: Ch. 5 & Ch. 6<br><b>Mini Literature Review (due by 10/6)</b>   |
| Week 7            | Oct 7, 9, 11                             | <ul style="list-style-type: none"> <li>Sampling &amp; Generalization</li> <li>Review Study Guide for Exam 2</li> </ul>                                | Read: Ch. 7<br><b>Exam #2 (Ch. 4-7) (due on 10/11)</b>   |
| Week 8            | Oct 14, 16, 18                           | <ul style="list-style-type: none"> <li>Correlational Research</li> <li>Writing workshop II: Research Proposal &amp; Examples</li> </ul>               | Read: Ch 8 & Ch 9  |
| Week 9            | Oct 23, 25                               | <ul style="list-style-type: none"> <li>Simple Experiments I</li> </ul>  | Read: Ch 10  |
| Week 10           | Oct 28, 30, Nov 1                        | <ul style="list-style-type: none"> <li>Simple Experiments II</li> </ul>   | <b>Research Proposal Draft (due by 11/3)</b>   |
| Week 11           | Nov 4, 6, 8                              | <ul style="list-style-type: none"> <li>Confounding and Obscuring Variables</li> <li>Writing workshop III: Research Proposal &amp; Examples</li> </ul> | Read: Ch. 11   |
| Week 12           | Nov 11, 13, 15                           | <ul style="list-style-type: none"> <li>Factorial Designs</li> <li>Review Study Guide for Exam 3</li> </ul>  | Read: Ch 12<br><b>Exam #3 (Ch. 8-12) (due on 11/15)</b>  |
| Week 13           | Nov 18, 20, 22                           | <ul style="list-style-type: none"> <li>Quasi-Experiments</li> <li>Writing workshop IV: Analysis Plan &amp; Finalize research proposal</li> </ul>      | Read: Ch 13<br><b>Lab #3 (Experiment design) (due by 11/24)</b>  |
| Week 14           | Nov 25                                   | <ul style="list-style-type: none"> <li>Statistics</li> <li>Tips for presentation</li> </ul>   | Read: Statistics Review<br><b>Research Proposal Complete (due by 12/1)</b>   |
| Week 15           | Dec 2, 4, 6                              | Final presentations   |  |
| <b>Final Week</b> | <b>Dec 11</b><br><b>10:00 - 11:50 am</b> | Final presentations   |  |

**Drop deadline – grade of “W” – Nov 8 by 5:00 pm**

**This course is subject to the GVSU policies listed at:**

<http://www.gvsu.edu/coursepolicies/>

**Academic Integrity:** Academic integrity often feels ambiguous, as the specific behaviors that are considered misconduct vary somewhat across disciplines and courses. My guiding principle is that **I want to know what YOU have learned in this course.** Behaviors that facilitate your learning the material are acceptable; behaviors that make it *appear* as if you have learned the material when you have not are unacceptable. Behaviors that create the appearance of an unfair advantage or allow others to question whether you have really learned the material, such as having access to unapproved materials during a quiz/exam, are also unacceptable.

Students are expected to work within GVSU's Code of Student Conduct. Please see <http://www.gvsu.edu/studentcode/> for more information and familiarize yourself with these policies regarding dishonorable conduct. **No matter how mild or severe the cheating, it is entirely unacceptable, and I will enforce the current policies fully.**

***Plagiarism:*** As described by the GVSU Student Code, "Offering the work of someone else as one's own is plagiarism...." "Any ideas or material taken from another source for either written or oral presentation must be fully acknowledged." **"Depending on the instructor's judgment of the particular case, he/she may...give a failing grade for the ... entire course."** Simply rearranging the words or substituting synonyms in the original source is still plagiarism. Details about the APA method for citing research will be provided during the course.

### **GVSU Save Program and Textbook Information**

Our course is participating in the GVSU SAVE program. This means your course textbook will be delivered to you via a link on the course's Blackboard page. You should have received a "Welcome Email" from Verba/VitalSource that explains the GVSU SAVE program. You have been charged for your course material on your GV student account. The deadline to opt-out of the SAVE program is Friday, Sept 8th for normal 15-week courses. Please be aware, if you opt-out you will be responsible for purchasing the required course material on your own.

For the instructions to opt-out, and more information about the program visit the GVSU SAVE website at: <https://lakerstore.gvsu.edu/gvsusave>

If you have any questions or are experiencing any issues, please contact [lakersave@gvsu.edu](mailto:lakersave@gvsu.edu)

#### **How to Access the Textbook:**

##### **GO TO BLACKBOARD**

- Click on "GVSU Save" on our PSY 300 BlackBoard course (tab on left side).
- Click on link "GVSU Save Course Materials". This will take you to your GVSU Save Bookshelf.
- Select "Read Now" for our textbook. From here you will be able to navigate to specific chapters/pages.
- You DO NOT need a code and you DO NOT need to enter any payment information (this is all taken care of through the GVSU SAVE program. Contact the Laker Store at [lakersave@gvsu.edu](mailto:lakersave@gvsu.edu) for more info, if needed).

## **Important GVSU Resources**

**Student Resources:** GVSU offers a variety of support for students. These include assistance with basic needs (such as food, housing, and laptops), academic support (such as tutoring and career advice), and wellness resources (such as health/mental health and opportunities to become more engaged with other students).

Here is a link to some of the resources currently available to students:

<https://www.gvsu.edu/care/campus-resources-15.htm> Please do not hesitate to reach out to me if you have any questions or if you are looking for a certain type of support. If I do not know the answer, I will try to find someone who does ☐.

**Disability Support Resources:** If you need academic accommodations because of a learning, physical, or other disability, please contact Disability Support Resources at 331-2490 to develop a plan of assistance that you can provide to me.

**University Counseling Center:** The University Counseling Center (UCC) provides personal, career, and group counseling to GVSU students free of charge. Furthermore, the UCC offers many self-help resources to students, including personal development assistance in dealing with issues of depression, loneliness, and how to manage stress, as well as study skill assistance such as test taking strategies, tips on how to successfully speak in front of a classroom, as well as guidance in writing research papers. For more information please visit: <http://www.gvsu.edu/counsel/> The UCC is located at 204 Student Services, Phone: 331-3266, Email: [gvcounsel@gvsu.edu](mailto:gvcounsel@gvsu.edu)

**Psych Friends:** If you feel you could use some extra help/guidance/support in any academic domain or for your well-being, please consider scheduling an appointment with a mentor through Psych Friends. Psych Friends mentors are upper-level undergraduate peer mentors who are trained to provide support in many areas including: effective study and time management techniques, exam preparation and reflection skills, comprehension of the psychology and behavioral neuroscience major requirements, tips for engaging in the field, strategies for education continuation, methods for maintaining physical and mental health.

**Schedule an appointment here:** <https://www.gvsu.edu/navigate> Questions?

**Email:** [psychfriends@gvsu.edu](mailto:psychfriends@gvsu.edu)



## **Fred Meijer Center for Writing:**

**Program information:** <https://www.gvsu.edu/wc>

**Appointment scheduling:** <https://www.gvsu.edu/bookit/>

**Contact:** virtualwc@mail.gvsu.edu - (616) 331-2922

**Main Location:** Lake Ontario Hall, Room 120 (Allendale)

**Satellite Locations:** Mary Idema Pew Knowledge Market (1st floor) and Steelcase Knowledge Market (Devos Building A)

**Online:** Virtual writing support is available during all hours of operation for both drop-ins and scheduled appointments. Email support is also available (provided within 72 hours of submission).

The Fred Meijer Center for Writing provides writing assistance to all GVSU students, on any type of project and at any stage of the process. The Writing Center employs both undergraduate and graduate writing consultants from across majors and disciplines. Consultants are trained to help writers brainstorm, organize, or develop their ideas; and they can help writers edit their own work and document sources correctly. The Center's services are free, and students can work with an idea, assignment prompt, or draft of their paper.

Writing Center services are available in-person and online for both drop-ins and scheduled appointments. In-person support is available at our physical locations, however hours vary by location so please check [Book It](#) and our program website for up-to-date information - [gvsu.edu/wc](https://www.gvsu.edu/wc). Online support and appointment scheduling can be accessed via Book It (<https://www.gvsu.edu/bookit/>) where students can virtually drop-in and/or schedule an online or in-person appointment. Both appointments and drop-ins are available during all service hours: (Mon-Thurs 9 a.m.-11 p.m., Friday 9 a.m.-3 p.m., Sunday 2 p.m.- 11 p.m.).

**Supplemental Writing Skills:** 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. Students may receive SWS credit for taking the course as Credit/No Credit provided the student passes the course with a "Credit" grade.