



HDE120 Research Methods Summer Session I 2023



1. COURSE DESCRIPTION AND LOGISTICS:

Class title: HDE 120 Research Methods (5 units)

◆ **Prerequisite:** STA13, PSC41, or the equivalent

Class Time: Mondays and Wednesdays, 5:10PM-7:40PM PDT

Classroom: Teaching and Learning Complex (TLC) 2218

Instructor: Helen Fann*

Office Hours: Mondays and Wednesdays, 4:00PM-5:00PM in Hart 1320

E-mail: hfann@ucdavis.edu

**For questions related to the Monday and Wednesday lectures, please contact your instructor.*

Teaching Assistants (TA):

Joe Venticinque** (A01)

A01 Lab Meeting Time: Tuesdays and Thursdays
9:10AM-11:40AM PDT

Lab Classroom: SciLab Building 2060

Joe's Office Hours: [By appointment \(Calendly\)](#)

E-mail: jventicinque@ucdavis.edu

***For questions related to the Tuesday and Thursday labs, please contact your assigned TA.*

Tseng Vang** (A02)

A02 Lab Meeting Time: Tuesdays and Thursdays
3:10PM-5:40PM PDT

Lab Classroom: SciLab Building 2060

Tseng's Office Hours: [By appointment \(email\)](#)

E-mail: tmvang@ucdavis.edu

Optional Textbook: [Research Methods](#) (9th Edition) by McBurney and White (2013). This textbook is *optional* and is recommended for supplementing your understanding of the topics discussed in the lectures only (some of the lectures will draw from chapters from the text). Exam questions, however, will not be based solely on contents from the textbook; exam questions may be drawn from the optional text *and* the lectures, since some of the lectures will draw from this text.

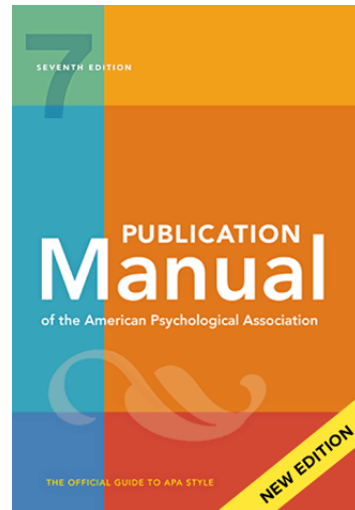
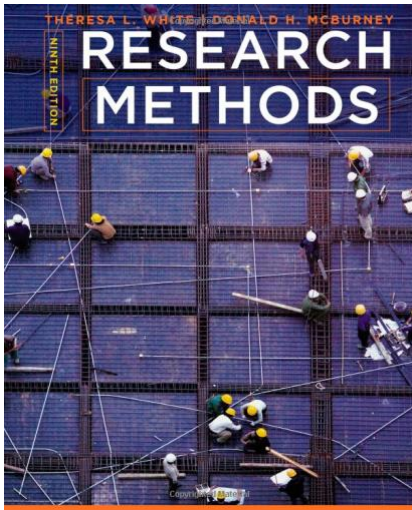
Required APA Manual: [Publication Manual of the American Psychological Association](#) (7th Edition) is the official source of information for writing in APA style and is *required*. You will learn how to write papers in APA style in this class, as well as complete worksheets on APA style; you will need the Manual to complete these assignments.

Buying and Renting Options (Optional Textbook):

- ◆ [Rent a virtual copy of the textbook for the quarter on Amazon](#)
- ◆ [Rent or buy an electronic version of the textbook via the publisher](#)

Buying and Renting Options (APA Manual):

- ◆ [Buy a paperback copy of the manual on Amazon](#)
- ◆ [Buy a paperback or spiral bound version of the manual via the publisher](#)



(Image description: the above is the cover of the optional textbook and depicts a construction site; the adjacent image is the cover of the required APA manual, which is multicolor).

Course Description: According to the UC Davis Human Development (HDE) major course description, this class will cover:

“Scientific process, research designs, and experimental controls; APA manuscript style and scientific writing; statistical analysis and interpretation of results. Laboratory exercises to collect data, analyze and interpret results, and write scientific papers.”

Please note that in addition to fulfilling the aims of the course put forth by the HDE major and university, a goal of the course is to equip you with the tools to be able to understand, navigate, and implement research designs and practices, so you can critically use research methods to design your own empirical studies, as well as critique designs proposed in empirical studies within the field of the social sciences.

Additional Course Information: The format of the class is **two weekly synchronous in-person lectures** and **two weekly synchronous in-person labs**. You are expected to come to lectures and labs ready to engage in discourse as well as participate in in-class activities posed by the instructor and TA. For the sake of your own learning, you are strongly encouraged to ask questions and participate in group or class discussions. You should also expect to engage with your peers in lectures as well as in labs.

2. COURSE CONTENTS:

As described above, the course is split into two major sections: **lectures and labs**. Your final grade will be determined on your performance in both of these sections, with your lecture grade determining **40% of your overall grade**, and the lab portion determining **60% of your overall grade**.

Lecture Portion (40%): Exams & In-class activities (ICA):

1. Exams: There will be 2 (two) **online exams** administered via Canvas. The exams will consist of **multiple-choice** and **“true or false”** questions. Each exam will be **non-cumulative** (60 points for each exam).

2. In-class activities (ICA): There will be 8 (eight) in-class activities assigned throughout the quarter. Students will be given the prompt *during the synchronous class meeting* and will submit their responses *onto Canvas before the end of class on the day the ICA was assigned*. For each activity, you will write a short

response to the question that is presented in class that day. The goal of the activities is to help reinforce concepts we have learned in class, in a practical and applicable way (10 points for each ICA).

Lab Portion (60%): Lab Writing Assignments, APA Worksheets, & IRB Certification:

1. Lab Writing Assignments: There will be a total of 4 (four) lab writing assignments related to the experiments conducted during lab that will be assigned throughout the quarter: 1) t-test write-up, 2) one-way ANOVA write-up, 3) two-way ANOVA write-up, and 4) final group project. Instructions and rubrics for this type of assignment will be provided by your TA during lab time (points for lab writing assignments vary- see below for point values of each).

2. APA Worksheets: There will be 3 (three) APA worksheets assigned throughout the quarter. Students will be given all 3 worksheets at the beginning of the quarter and are encouraged to start working on them prior to the deadline (15 points for each APA worksheet).

3. IRB Certification: A goal of the course is to ensure students leave the course equipped with the skills to conduct their own empirical studies. Before the end of this course, you will be collecting human subject data; to prepare you for this task, you will need to complete CITI certification from the Institutional Review Board (IRB). This certification makes you eligible to collect data with human subject participants (25 points for IRB certification).

4. Lab Participation: You are expected to attend and participate in your lab section. Please attend the lab you signed up for on Schedule Builder (i.e., A01 *or* A02). Given the expedited nature of the Summer Session, your attendance and participation in the lab meetings is mandatory as well as critical to your understanding of the lab material (30 points for lab participation).

To summarize the above, the graded course requirements include:

- ◆ 2 exams (non-cumulative)
- ◆ 8 in-class activities (ICA)
- ◆ 4 lab writing assignments
- ◆ 3 APA worksheets
- ◆ 1 IRB certification
- ◆ Lab participation

Late or Missing Work Policy (Please read carefully prior to contacting the instructor): To get an approved extension or exception on a course assignment, please contact the instructor and your assigned TA via email *with the accompanying relevant documents describing your situation at least 24 hours prior to the assignment submission deadline*. Requests for extensions or exceptions made less than 24 hours prior to the assignment submission deadline will be handled on a case-by-case basis and at the discretion of the instructor. Please also note the specific late or missing work policies for the course assignments:

◆ **Exams:** To maintain fairness, make-up exams will *not* be offered. If you foresee not being able to take an exam on the date it is scheduled, you have the option to take the exam *prior to* the exam's scheduled date. In the case you absolutely cannot contact the instructor to take an earlier exam, students who seek an extension will need to provide written official documentation from a provider for illness or family emergencies and must take the exam *no later than 24 hours* after it is administered to the rest of the class.

◆ **In-class activities (ICA):** There will be no make-ups offered for in-class activities (ICA). Please also refrain from sharing the ICA prompts with peers who did not attend the synchronous class meetings. Let us work together to maintain fairness, integrity, and equity for all students enrolled in the course.

◆ Lab writing assignments: The summer term is expedited, which means we have less time to teach, learn, and provide feedback on materials. If you foresee needing an extension on a lab writing assignment, please contact your assigned TA via email *with the accompanying relevant documents describing your situation at least 24 hours prior to the assignment submission deadline*. Unexcused late writing assignments will be deducted 10% of the assignment's points for every 24 hours it is late. Additionally, no paper will be accepted **three days post-deadline**.

3. GRADE BREAKDOWN:

Determining your course grade: Your course grade will be based on the following distribution of points:

◆ Exam I : 60 points	}	Lecture grade (40%)
◆ Exam II : 60 points		
◆ In-class activities (ICA) : 8 x 10 points each		
◆ t-test Write-Up : 25 points	}	Lab grade (60%)
◆ One-way ANOVA Write-Up : 50 points		
◆ Two-Way ANOVA Write-Up : 50 points		
◆ Final Group Project Write-Up : 75 points		
◆ APA worksheets : 3 x 15 points each		
◆ IRB certification : 25 points		
◆ Lab participation : 30 points		

Total possible points: 500 points

<u>Grade</u>	<u>Percentage</u>
A+	98-100%
A	94-97%
A-	90-93%
B+	87-89%
B	83-86%
B-	80-82%
C+	77-79%
C	73-76%
C-	70-72%
D+	67-69%
D	63-66%
D-	60-62%
F	< 60%

4. ADDITIONAL CAMPUS RESOURCES:

UC Davis Code of Academic Conduct: Honesty, Fairness & Integrity: Students enrolled in the course are expected to follow the UC Davis Code of Academic Conduct. This means students are **expected to refrain from dishonest behaviors** including, but not limited to, *cheating and plagiarism*. If at any point in the term you are unsure whether you are violating this code of conduct, *please talk to your instructor and or TA*. In the case students violate this code of conduct, the OSSJA will be involved.

Services for Students with Disability: We are committed to ensuring an accessible learning environment where course or instructional content are usable by all students. If you believe that you require disability-related academic adjustments for this class, please immediately contact the Student Disability Center (SDC) to discuss eligibility. A current accommodation letter from the SDC is required before any modifications, above and beyond what is otherwise available for all other students in this class will be provided. Please use the link provided to access the student “My SDC Online” portal for navigating submitting documentation and obtaining accommodations.

Student Health and Counseling Services: Your physical and mental health are important to your success as a college student. Student Health and Counseling Services (SHCS) offers a variety of **medical, counseling, and wellness services** to help you get and stay healthy during your time at UC Davis. SHCS offers: Primary Care medical services, including sexual and reproductive healthcare, transgender care, and immunizations; urgent care for acute illness, injuries, and urgent counseling needs; pharmacy for prescriptions and over-the-counter products; mental health counseling, including individual sessions, group counseling, support groups, mindfulness training, and peer counseling; athletic training for sports injury rehabilitation; wellness services, including nutrition counseling, peer-led health education and wellness workshops, and free safer sex supplies; violence and sexual assault support services. Most services are covered by the UC Ship fee and available at no additional cost.

Center for Advocacy, Resources & Education (CARE) If you or someone close to you has experienced sexual harassment or any form of sexual violence, CARE advocates are able to provide confidential help with processing emotions, going over reporting options, resource referral and more. The CARE website also provides other resources for those who experienced sexual assault, dating/domestic violence, stalking, and sexual harassment. **For urgent matters, confidential counselors are available 24/7 by calling (530) 752-3299.**

Reporting Sexual Harassment and Discrimination (Title IX): The University of California and UC Davis Health are committed to the principle of treating each community member with respect and dignity. Across all of its locations, including clinical settings, the University prohibits discrimination and harassment (including sexual assault and other forms of sexual harassment). UC Davis Health provides equal opportunities for all patients, applicants, employees, faculty, and students regardless of sex, gender identity or expression, sexual orientation, or other legally protected characteristics. For more on the University’s commitment to integrity, accountability and respect for all members of our community, please see the University’s Statement of Ethical Values and Standards of Ethical Conduct at: <https://www.ucop.edu/ethics-compliance-audit-services/index.html>
See also: <https://compliance.ucdavis.edu/compliance-program> and <https://hdapp.ucdavis.edu/non-discrimination-statement>

If you have experienced sexual harassment, please report it. To speak with someone in the Title IX Office, please call:

Title IX Officer:

Wendi Delmendo

wjdelmendo@ucdavis.edu

530-752-9466

Harassment & Discrimination Assistance and Prevention Program:

530-747-3866 (Davis office)

916-734-3417 (Sacramento office)

hdapp@ucdavis.edu

You may also submit an online report here: <https://ocpweb.ucdavis.edu/svsh/public/report-form.cfm>

The UC Davis Title IX Office tries to protect people's privacy, while also fulfilling its obligations to respond appropriately to all reports it receives. In some situations, certain laws and University policies may require disclosure of reports to others, such as other University officials, licensing boards, law enforcement, or other agencies. If you are unsure if you want to file a report, we recommend contacting one of the following confidential resources first for advice and support:

UC Davis Center for Advocacy, Resources and Education (CARE)

530-752-3299 (Davis office)

916-734-3799 (Sacramento office)

ucdcare@ucdavis.edu

Basic Needs: If you, or a student you know, is having difficulty affording groceries, accessing sufficient food, accessing a safe and stable place to live, or experiencing undue stressful life circumstances, please contact Aggie Compass for support. They have a myriad of resources and can help you navigate gaining access to basic needs, including a place to live, food, and physical and mental health resources.

Instructor Support and Feedback Statement: Please note I am available for consultation and advice; feel free to visit during my set office hours. If my office hours are inconvenient for you, please feel comfortable to email to set up an appointment (it is easiest to get in touch with me via email). I am happy to meet outside of office hours whenever my schedule allows. At any time in the semester, **your feedback is most welcomed.** Furthermore, if something is frustrating, unclear, or intimidating, please feel free to come talk with me about it. Similarly, if you are particularly enjoying something about the class, please let me know. It is important for me to do all that I can to help you maximize your learning experience.

Schedule of Lectures, Exams, Lab Topics, and Important Due Dates*

Date	Lecture Topic (M/W)	Lab Topic (T/R)
1. June 26 & June 27	Introduction to the course and developing your research questions	Lab introduction and logistics; conduct & review Experiment #1
2. June 28 & June 29	Different types of variables	Why do we use t-test; running t-test on SPSS; APA Worksheet #1 due June 29
3. July 3 & July 4	Answering your research questions	No lab meeting July 4!
4. July 5 & July 6	Introduction to research design	Conduct & review Experiment #2; why do we use ANOVA; running ANOVA on SPSS; t-test Write-Up due July 6
5. July 10 & July 11	Single subject experiments and Exam 1 review	Library search activity: Literature search; One-way ANOVA workshop during lab time; APA Worksheet #2 due July 11
6. July 12 & July 13	TAKE EXAM 1 ON CANVAS (covers materials from lectures 1 to 5)	Conduct & review Experiment #3; why we use two-way ANOVA; running two-way ANOVA on SPSS; One-way ANOVA Write-Up due July 13
7. July 17 & July 18	Formatting and writing in APA style	Final projects teams and springboards; work on final project proposals Two-way ANOVA Write-Up due July 18
8. July 19 & July 20	Introduction to measurement	Preparing for the final project; TA must approve proposals by July 25 APA Worksheet #3 due July 20
9. July 24 & July 25	Experimental controls	Workshop final projects in groups IRB Certification due July 25
10. July 26 & July 27	Approaches to sampling	Collect data for final projects during lab time

11. July 31 & August 1 Developmental research designs
and Exam 2 review Final paper workshop during lab time;
Final paper due on Tuesday, August 1st

12. August 2 & August 3 **TAKE EXAM 2 ON CANVAS**
(covers materials from lectures 6 through 10) **No lab meeting August 3!**

**The attached course schedule indicates when topics will be covered; however, please allow for some flexibility in the schedule. Lecture and lab topics are subject to change.*