

DEPARTMENT OF PSYCHOLOGY Faculty of Arts

Psychology 650 Clinical Research Fall 2023

Instructor: Dr. Andrew (Hyounsoo) Kim Lecture Location: TBD

Phone: N/A Lecture Days/Time: Alternate R 9:00-10:50

Email: andrewh.kim@ucalgary.ca

Office: TBD

Office Hours: By appointment

Course Description and Objectives

The primary focus of this course is to provide students with a strong background in conducting and evaluating research in clinical psychology. This course will cover all facets of research from the inception of a research idea to its eventual dissemination. The textbook provides a high level of detail regarding research design, methodology, and statistical issues - which can be used as more of a reference guide rather than something to memorize. The lectures and assignments will focus on the application of research methods and evaluation skills to both published articles and students' own research. Students will be encouraged to think broadly about their research (e.g., theoretical/conceptual foundations and contributions, practice and policy implications, etc.). They will also be expected to justify decisions made in the context of designing their research, consider the pros and cons of alternative designs, and take a position on topical issues. Specific course objectives include: (1) allowing students to share and develop their own research ideas and plans, (2) developing and enhancing skills in critical thinking and integrating research findings, (3) developing oral and visual presentation skills, and (4) providing exposure to selected research-related professional issues. My hope is that throughout the course we will help each other become more critical thinkers and better researchers through lectures, presentations, constructive feedback, and discussions. Lively, thoughtful discussions will make the class more interesting and enjoyable for all so your efforts to participate will pay off.

Acknowledgments and Respect for Diversity

Our classrooms view diversity of identity as a strength and resource. Your experiences and different perspectives are encouraged and add to a rich learning environment that fosters critical thought through respectful discussion and inclusion. The Department of Psychology would like to acknowledge the traditional territories of the people of the Treaty 7 region in southern Alberta. The City of Calgary is also home to Métis Nation of Alberta, Region III.

Course Format

This year-long course meets for two hours biweekly. It will be held virtually from September to October and in person from November onwards.

Prerequisites

Admission to the Graduate Program in Clinical Psychology/Psychology or by permission of the Instructor.

Required Texts and Readings

- Kazdin, A. E. (2017). Research design in clinical psychology (5th ed.). New York: Pearson. Print and digital formats of this text are available through the University of Calgary bookstore.
- Other readings will be assigned.
- The following website provides an overview of reporting guidelines for various types of studies: http://www.equator-network.org

Assessment Methods

- Attendance and participation (40%)
- Article critique midterm (25%) essay format, content from text/readings/lectures, open book
- Research presentation (25%)
- Research feedback (10%)

Attendance and participation (40%)

Attendance at each class and participation in discussions/research feedback is important for success, and to receive credit, for this course. Students are encouraged to make every effort to attend all classes, and are asked to notify the instructor in advance if they must miss a class. As part of your attendance and participation mark, you will be asked to complete the following two in-class, group exercises:

In Class Group Exercise: Part I – September 21

Students will be given research articles to read prior to coming to class. Drawing on the course readings, you will identify the major strengths and limitations of the research, and distinguish these from less significant issues. Please consider theoretical, ethical, methodological, and statistical issues when critiquing the articles. We will discuss your article critiques in class.

<u>In Class Group Exercise: Part II – October 5</u>

Students will be asked to choose an interesting research question/hypothesis that follows from one of the articles and extends the research in an important way (i.e., not just "more participants" for "more power"). Using one of the designs in Kazdin, describe a follow-up study to address this research question/hypothesis. Please justify why you chose this design over others. For each design, Kazdin highlights issues that need to be considered for implementation (e.g., sampling, rationale for control group, selection of measures, etc.). Please address these issues in the study you are proposing. Assume that you have unlimited resources. Finally, no study is perfect (even in our imaginary world of unlimited resources)! Describe the major limitations of your study. We will discuss your follow-up study in class.

Article critique midterm (25%) – January 11 (due at 10:50am MST)

Students will be given an article to critique as an in-class, open-book exercise, noting both strengths and weaknesses of the research. Students will choose one article from a list of three articles, each relating to different subfield of psychology. Students will be asked to critique the article on theoretical, methodological, and statistical grounds, suggesting alternative strategies where possible to improve the research.

Exams in this course are open book. For this course, an open book exam means that the use of class notes and the textbook is permitted. The use of online resources and calculators is permitted. Students may not

communicate with others about course material or the exam either in person or electronically during exams.

Research presentation (25%) – January 25-March 28

Students will each give a 30-minute presentation on their thesis research, following the outline you will be given. Following your presentation, you will be asked questions about your research and you will receive written feedback from the class. I will also provide you with feedback on each of the following criteria:

The general criteria for marking your presentation are as follows (note that criteria/weights for criteria will be different for M.Sc. vs. PhD students, reflecting stages of the research):

- Organization and clarity of content
- Knowledge of the extant literature (including relevant theory) and your study as an extension of this
- Your ability to demonstrate the significance of the research and the rationale for your study
- Critical evaluation of your methodology (strengths and weaknesses) and suggestions for improvement (e.g., in an ideal world with vast resources of time and money)
- Your ideas for future research
- Knowledge translation strategies
- Implications of your research (e.g., clinical, policy)
- Your ability to address questions and comments

Feedback on research presentation (10%) - January 25-March 28

Each student in the class will be responsible for providing written feedback (both strengths and areas of growth) on at least one research presentation and summarizing the oral feedback from others. Feedback should pertain directly to the methodological issues we have discussed in class. This feedback should be typed and sent by e-mail to the course instructor, who will review it and disseminate it to the presenter. This feedback is due to the instructor one week after the oral presentation (R 10:50am MST). Late assignments will not be accepted without instructor approval.

University of Calgary Academic Integrity Policy

Academic integrity is the foundation of the development and acquisition of knowledge and is based on values of honesty, trust, responsibility, and respect. We expect members of our community to act with integrity.

Research integrity, ethics, and principles of conduct are key to academic integrity. Members of our campus community are required to abide by our institutional code of conduct and promote academic integrity in upholding the University of Calgary's reputation of excellence. It is your responsibility to ensure that you have read and are familiar with the student academic misconduct policy: https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Student-Academic-Misconduct-Policy.pdf.

Faculty of Graduate Studies Grading System

A+ = Outstanding performance, A = Excellent performance, A- = Very good performance

B+ = Good performance, B = Satisfactory performance, B- = Minimum pass

C+: All grades of "C+" or lower are indicative of failure at the graduate level and cannot be counted toward Faculty of Graduate Studies course requirements. Individual programs may require a higher passing grade.

Grading Scale

A+	96-100%	B+	80-84%	C+	67-71%	D+	54-58%
Α	90-95%	В	76-79%	С	63-66%	D	50-53%
A-	85-89%	B-	72-75%	C-	59-62%	F	0-49%

It is at the instructor's discretion to round off either upward or downward to determine a final grade when the average of term work and final examinations is between two letter grades. To determine final letter grades, final percentage grades will be rounded up or down to the nearest whole percentage (e.g., 89.5% will be rounded up to 90% = A but 89.4% will be rounded down to 89% = A-).

Tentative Lecture Schedule

Ideally in table format with date of class, topics to be covered, and chapters/readings to be read. Due dates for tests/exams and assignments should be included in this schedule as well.

Date	Topics	Readings
T Sep 5	Start of classes	
R Sep 7	Introduction:	Kazdin Ch. 1 to 4
	Are these results valid?	
	Is science important?	Lilienfeld, S. O., et al. (2014). Science
	How do I find a research idea?	Versus Pseudoscience. The Encyclopedia
	The basics: Threats to validity	of Clinical Psychology, 1-7. PDF
		APA (2010). Preparing manuscripts for publication in psychology journals. Washington D.C.: American Psychological Association. PDF
		Optional:
		Barnett, A. (2017). Comment: Research
		needs more competence, less
		'excellence'. Nature, 543(7646), S29-S29. PDF
		Chambers, C. T. (2000). "Where do I start!?": Getting going on your thesis. Psynopsis, 22(4), 24. PDF

Chambers, C. T. (2002). How to succe as a student in Psychology. Psynopsis 24(3), 14. PDF R Sep 14 Last day to drop a class without financial penalty F Sep 15 Last day to add or swap a course R Sep 21 Conducting and evaluating research: Part I Experimental & observational designs Assessment/Measurement Reporting results Reporting results In Class Group Exercise: Part I Appelbaum, M. et al. (2018). Journal article reporting standards for quantitative research in Psychology:	brief			
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Reporting results guide to manuscript reviewing. The Behavior Therapist, 29 (4), 74-76. PDI In Class Group Exercise: Part I Appelbaum, M. et al. (2018). Journal article reporting standards for				
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APA Publications and Communication				
Board task force report. American	•			
Psychologist, 73, 3-25. PDF				
1 Sychologist, 73, 3 23. <u>- 51</u>				
Montgomery, P. et al. (2018). Reporti	ng			
randomized trials of social and	6			
psychological interventions: the				
CONSORT-SPI 2018 extension. Trials,	19.			
407. PDF	_0,			
Optional:				
See the following list of reporting				
guidelines for a variety of research				
designs: Equator Network				
Schulz, K. F. et al. (2010). CONSORT 2	010			
Statement: updated guidelines for				
reporting parallel group randomized				
trials. BMJ, 340, 698-702. PDF				
F Sep 22 Fee payment deadline for Fall Term full and half courses.				
S Sep 30 University Closed National Day for Truth and Reconciliation				
R Oct 5 Conducting and evaluating research: Part Kazdin Ch. 13-14				
II II				
Data Evaluation Johnston, J. N., et al. (2021). Patient				
Patient-Oriented Research oriented research in mental health:				
Pragmatic Clinical Trials matching laboratory to life and beyon	ıd in			
Canada. Research Involvement and				
Engagement, 7(1), 1-11. PDF				
In Class Group Exercise: Part II				
Drazen, J. M. et al. (2016). The chang	ng			
face of clinical trials: pragmatic trials.	New			
Engl J Med, 375, 454-463. PDF				

		Ontional		
		Optional:		
		Sacristán, J.A. (2013). Patient-centered		
		medicine and patient-oriented research:		
		Improving health outcomes for individual		
		patients. BMC Medical Informatics and		
		Decision Making, 13(1):6. PDF		
		S, (, <u>—</u>		
		Ghisoni, M. et al. (2017). Priority setting in		
		research: User led mental health		
		research. Research Involvement and		
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M Oct 9	Thanksgiving Day, University closed (except Taylor Family Digital Library, Law, Medical, Gallagher and Business Libraries). No lectures.			
5.0 . 40				
R Oct 19	Data interpretation	Kazdin Ch. 15-17		
	(effect sizes, negative/n.s. effects)			
	Ethical issues and guidelines	Optional:		
	Scientific integrity	Lilienfeld, S. O., & Strother, A. N. (2020).		
		Psychological measurement and the		
		replication crisis: Four sacred cows.		
		Canadian Psychology. PDF		
		Wasserstein, R. L., Schirm, A. L., & Lazar,		
		N. A. (2019). Moving to a world beyond		
		"p< 0.05". The American Statistician, 73,		
		1-9. PDF		
R Nov 2	Knowledge translation:	Kazdin Ch. 18 and 19		
K NOV Z	Knowledge translation:	Razulli Cii. 16 aliu 19		
	Science Communication	Kee John Torribules of CUID 1991		
	Implementation Science	Knowledge Translation at CIHR: <u>Link</u>		
	Article analysis	Caulfield, T. (2021). Science and the		
		Uncertainty Dance. <u>Link</u>		
		Tumlin, T. R. (2006). Ten things		
		psychologists should know when talking		
		to the press. The Behavior Therapist,		
		29(4), 69-71, 74. PDF		
		Optional:		
		Best Practices in Science Communication:		
		<u>Link</u>		
		How to Mork Mith the Media. ADA		
		How to Work With the Media: APA		
		Dougn M.C. of al. (2015). An introduction		
		Bauer, M.S., et al. (2015). An introduction		
		to implementation science for the non-		
		specialist. BMC Psychology, 3:32. PDF		

Interview of the professions, 26, 13-24. PDF Graham, I.D., et al. (2007). Some the Health Professions, 26, 13-24. PDF Graham, I.D., et al. (2007). Some theoretical underpinnings of knowledge translation. Academic Emergency Medicine, 14, 936-941. PDF S Nov 11 Remembrance Day (Observed). University Closed (except Taylor Family Digital Library, Law, Medical, Gallagher and Business Libraries). No lectures. Nov 12-18 R Nov 30 Open science: Can it help with the replicability crisis? - Pre-registration - Open data, open code - Pre-print - Registered reports Article analysis T Dec 5 Fall Term lectures end. Last day to withdraw with permission from Fall Term half courses. W Dec 6 Last day to withdraw with permission from Fall Term half courses W Dec 6 Last day to withdraw with permission from Fall Term half courses. W Dec 6 Last day to withdraw with permission from Fall Term half courses R Jan 11 Midterm: Article critique, in class. R Jan 12 R Research presentations R Har 7 R Research presentations R Mar 7 R Research presentations R Apr 4 R Research presentations		1	Croham ID at al (2006) Last in		
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R Apr 4 Research presentations	R Mar 21				
T Apr 9 End of classes	R Apr 4	Research presentations			
	T Apr 9	End of classes			

Absence from a Test/Exam

Makeup tests/exams are **NOT** an option without the approval of the instructor. Students who miss a test/exam have up to 48 hours to contact the instructor to ask for a makeup test/exam. It's the instructor's discretion if they will allow a make-up exam. Students who do not schedule a makeup test/exam with the instructor within this 48-hour period forfeit the right to a makeup test/exam. At the instructor's discretion, a makeup test/exam may differ significantly (in form and/or content) from a regularly scheduled test/exam. Once approved by the instructor a makeup test/exam must be written

within 2 weeks of the missed test/exam on a day/time scheduled by the instructor. If a student cannot write their final exam on the date assigned by the Registrar's Office, they need to apply for a deferred exam https://www.ucalgary.ca/registrar/exams/deferred-exams.

Travel During Exams

Consistent with University regulations, students are expected to be available to write scheduled exams at any time during the official December and April examination periods. Requests to write a make-up exam because of conflicting travel plans (e.g., flight bookings) will NOT be considered by the department. Students are advised to wait until the final examination schedule is posted before making any travel arrangements. If a student cannot write their final exam on the date assigned by the Registrar's Office, they need to apply for a deferred exam

https://www.ucalgary.ca/registrar/exams/deferred-exams. Students with an exceptional extenuating circumstance (e.g., a family emergency) should contact the Department of Psychology (psyugrd@ucalgary.ca).

Reappraisal of Graded Term Work http://www.ucalgary.ca/pubs/calendar/current/i-2.html
Reappraisal of Final Grade http://www.ucalgary.ca/pubs/calendar/current/i-3.html

Academic Accommodations

Students seeking an accommodation based on disability or medical concerns should contact Student Accessibility Services; SAS will process the request and issue letters of accommodation to instructors. For additional information on support services and accommodations for students with disabilities, visit www.ucalgary.ca/access/. Students who require an accommodation in relation to their coursework based on a protected ground other than disability should communicate this need in writing to their Instructor. The full policy on Student Accommodations is available at http://www.ucalgary.ca/policies/files/policies/student-accommodation-policy.pdf.

Academic Misconduct

For information on academic misconduct and its consequences, please see the University of Calgary Calendar at http://www.ucalgary.ca/pubs/calendar/current/k.html.

Instructor Intellectual Property

Course materials created by professor(s) (including course outlines, presentations and posted notes, labs, case studies, assignments and exams) remain the intellectual property of the professor(s). These materials may NOT be reproduced, redistributed or copied without the explicit consent of the professor. The posting of course materials to third party websites such as note-sharing sites without permission is prohibited. Sharing of extracts of these course materials with other students enrolled in the course at the same time may be allowed under fair dealing.

Copyright Legislation

All students are required to read the University of Calgary policy on Acceptable Use of Material Protected by Copyright (www.ucalgary.ca/policies/files/policies/acceptable-use-of-material-protected-by-copyright.pdf) and requirements of the copyright act (https://laws-lois.justice.gc.ca/eng/acts/C-42/index.html) to ensure they are aware of the consequences of unauthorized sharing of course materials (including instructor notes, electronic versions of textbooks etc.). Students who use material protected by copyright in violation of this policy may be disciplined under the Non-Academic Misconduct Policy.

Freedom of Information and Protection of Privacy

Student information will be collected in accordance with typical (or usual) classroom practice. Students' assignments will be accessible only by the authorized course faculty. Private information related to the individual student is treated with the utmost regard by the faculty at the University of Calgary.

Student Support and Resources

https://www.ucalgary.ca/registrar/registration/course-outlines

Important Dates

The last day to drop this course with no "W" notation and still receive a tuition fee refund is Thursday, September 14th, 2023. Last day add/swap a course is Friday, September 15th, 2023. The last day to withdraw from this course is Wednesday, December 6th, 2023.

https://www.ucalgary.ca/pubs/calendar/current/academic-schedule.html