
Course number 720.1**Individual Variation in Brain Function****Fall 2021**

Instructor:	Andrea Protzner	Lecture Location:	Remote synchronous
Phone:	403-220-5566	Lecture Days/Time:	M 13:00 - 15:45
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Office:	EDT 1424		
Office Hours:	By appointment		

Course Description and Objectives

The course will cover neuroimaging and electrophysiological research examining cross-individual variability in functional brain organization in a variety of domains (e.g., sensorimotor, development, psychiatric disease, etc).

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 also 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

Lectures and other class activities will be held live via Zoom during each scheduled class as per the class schedule below. Throughout each scheduled class, students will be strongly encouraged to keep their video and audio on, to facilitate engagement and discussion.

Prerequisites

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

Required Texts and Readings

This course does not have a required textbook. The course material consists of selected readings that students will be provided via a class Dropbox, download from the UofC online journals website (<http://library.ucalgary.ca/journals>), or find online as open source.

Assessment Methods

Student evaluations will be based on posting of discussion questions to D2L prior to class (30%), leading a class and associated discussion (30% of final grade), submission of a research proposal (30% of final grade), and participation in class (10%). Late assignments will not be accepted without instructor approval.

A. Discussion Questions (30% of final grade). The day before each class, students are expected to post on the D2L discussion forum one question related to the assigned readings for that class. The questions will be available to all students for discussion during the class.

B. Leading a class and associated discussion (30% of final grade). Leading a class and the associated discussion will consist of some or all of the following: (1) choosing a journal article focusing on one of the topics addressed in the course, (2) providing a brief overview of the topic, (3) providing a brief description of the methods and procedures used in the articles being covered, (4) interpretation of the key findings, and (5) suggestions for future studies given the articles discussed.

C. Research proposal (30% of final grade). Each student will write a research proposal that addresses individual variation in brain function. In the proposal, students are required to formulate one experiment or study that would make an original contribution to the literature/topic on which the proposal focuses. Research proposals will be submitted by email to the instructor in Word format. The proposal should be organized into the following sub-headings: (1) Title of the proposal and name of the student, (2) Abstract (150 words maximum), (3) Brief topic/literature overview, (4) Objective of the proposal, (5) Methods, (6) Expected results, (7) Implications and conclusions, (8) References (reference list in any format). The body of the proposal must not exceed 10 pages (double-spaced, 12 point Times or metrically equivalent font). Evaluation will be based on clarity, accuracy and completeness, and special consideration will be given to the novelty and originality of the proposal. To assist students in preparing their research proposals, there will be an optional online review and discussion of the proposals (date TBA). **The completed research proposals will be due on December 13, 2021.** Without instructor approval, late submissions of the research proposals will not be accepted.

D. Class Participation (10% of final grade). The instructor will rate each student on their engagement and the quality of their interactions and discussion at the end of each class.

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/policies/files/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%
A	90-95%	B	76-79%	C	63-66%	D	50-53%
A-	85-89%	B-	72-75%	C-	59-62%	F	0-49%

As stated in the University Calendar, 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 Topics and Schedule

Date	Topic/Activity/Due Date
W Sep 8	University Lectures begin.
M Sep 13	Introductions/Overview of individual differences in functional brain organization
R Sep 16	Last day to drop a class without a penalty
F Sep 17	Last day to add or swap a course
M Sep 20	How to study individual differences in functional network organization
F Sep 24	Fee payment deadline for Fall Term full and half courses.
M Sep 27	Group consistent versus functionally unique features of networks
M Oct 4	Identifying individuals through their functional connectome
M Oct 11	Thanksgiving Day, University closed (except Taylor Family Digital Library, Law, Medical, Gallagher and Business Libraries). No lectures.
M Oct 18	Sensorimotor function
M Oct 25	Social-emotional function
M Nov 1	Consciousness
Nov 7-13	Term Break No Classes
R Nov 11	Remembrance Day (Observed). University Closed (except Taylor Family Digital Library, Law, Medical, Gallagher and Business Libraries). No lectures.
M Nov 15	Personality
M Nov 22	Development
M Nov 29	Psychiatric and neurologic disorders
M Dec 6	Psychiatric and neurologic disorders continued
R Dec 9	Fall Term Lectures End. Last day to withdraw with permission from Fall Term half courses.
Dec 13	Research Proposals due

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 16, 2021**. Last day add/swap a course is **Friday, September 17, 2021**. The last day to withdraw from this course is **Thursday, December 9, 2021**.

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