CGSC 3201 B Cognitive Processes

Fall 2023 v1.0

Instructor

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Office hours: Tuesdays 2:30 - 3:30 PM, DT 2215

Class time

4:35-5:55 PM Tuesdays and Thursdays

CGSC 3201 B is an in-person course. This means that you are expected attend classes on campus.

Prerequisites

Third-year standing, and 0.5 credit in CGSC 2001 or PSYC 2700.

Course Objectives

The topic of CGSC 3201 is human memory. We will focus on the major areas in memory research following the metaphor of information flow, from how the basic "machinery" works, to more "high level" topics like "fake news". Although we will focus mostly on behavioural data, we will also frequently cover data from cognitive neuroscience and modelling. At the completion of the course I expect you to have acquired a useful knowledge of how human memory works and the research methods used to study how memory works.

Required Text

- Baddeley, Eysenck, & Anderson (2020). *Memory* (3rd edition), London: Psychology Press. Paperback version: ISBN 9781138326095 (https://www.routledge.com/Memory-3rd-Edition/Baddeley-Eysenck-Anderson/p/book/9781138326095). (You could also use the 2nd edition of the textbook, available as a paperback (ISBN 978-1848721845), which overlaps significantly with the more recent edition. Once caveat, though: occasional information from the 3rd edition may not be present in the 2nd edition.)
- we will also use journal articles to focus on methods used in memory research; these are listed on the course Brightspace site for each week

How You Will Be Evaluated

Your final grade will be based on 1) two midterm tests (2 X 30%) and 2) a final exam (40%) written during the final exam period.

Missed test policy

Make-up tests will be permitted for illness, bereavement, or religion reasons. Other reasons will be considered on a case-by-case basis.

For Fall 2023, the Provost has directed that students seeking an academic accommodation for course work will not be required to produce a doctor's note or medical certificate. Instead, students should use the Medical Self-Declaration form at https://carleton.ca/registrar/wp-content/uploads/self-declaration.pdf.

Academic Integrity

Carleton University expects all students to be aware of and follow its policy on academic integrity. See https://carleton.ca/registrar/academic-integrity/ for detailed information about academic integrity. As applied to CGSC 3201, the primary issue that you must be aware of is unauthorized collaboration on tests and the final exam, and that any submitted work must be completed by you as a student in the class.

Regulations and Information Common to Undergraduate Cognitive Science Courses

Statement on Student Mental Health

As a University student you may experience a range of mental health challenges that significantly impact your academic success and overall well-being. If you need help, please speak to someone. There are numerous resources available both on- and off-campus to support you. Here is a list that may be helpful:

Emergency Resources (on and off campus): https://carleton.ca/health/emergencies-and- crisis/emergency-numbers/

Carleton Resources: • Mental Health and Wellbeing: https://carleton.ca/wellness/ • Health & Counselling Services: https://carleton.ca/health/ • Paul Menton Centre: https://carleton.ca/pmc/ • Academic Advising Centre (AAC): https://carleton.ca/academicadvising/ • Centre for Student Academic Support (CSAS): https://carleton.ca/csas/ • Equity & Inclusivity Communities: https://carleton.ca/equity/ Off Campus Resources: • Distress Centre of Ottawa and Region: (613) 238-3311 or TEXT: 343-306-5550, https://www.dcottawa.on.ca/ • Mental Health Crisis Service: (613) 722-6914, 1-866-996-0991, http://www.crisisline.ca/ • Empower Me: 1-844-741-6389, https://students.carleton.ca/services/ empower-me- counselling-services/ • Good2Talk: 1-866-925-5454, https://good2talk.ca/ • The Walk-In Counselling Clinic: https://walkincounselling.com

REQUESTS FOR ACADEMIC ACCOMMODATION

You may need special arrangements to meet your academic obligations during the term. For an accommodation request the processes are as follows:

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- Pregnancy: write to me with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details see the Student Guide
- Religious obligation: write to me with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details see the Student Guide
- Academic Accommodations for Students with Disabilities: The Paul Menton Centre for Students with Disabilities (PMC) provides services to students with Learning Disabilities (LD), psychiatric/mental health disabilities, Attention Deficit Hyperactivity Disorder (ADHD), Autism Spectrum Disorders (ASD), chronic medical conditions, and impairments in mobility, hearing, and vision. If you have a disability requiring academic accommodations in this course, please contact PMC at 613-520-6608 or pmc@carleton.ca for a formal evaluation. If you are already registered with the PMC, contact your PMC coordinator to send me your Letter of Accommodation at the beginning of the term, and no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable). After requesting accommodation from PMC, meet with me to ensure accommodation arrangements are made. Please consult the PMC website for the deadline to request accommodations for the formally-scheduled exam (if applicable).
- Survivors of Sexual Violence: As a community, Carleton University is committed to maintaining a positive learning, working and living environment where sexual violence will not be tolerated, and its survivors are supported through academic accommodations as per Carleton's Sexual Violence Policy. For more information about the services available at the university and to obtain information about sexual violence and/or support, visit: carleton.ca/sexual-violence-support

Accommodation for Student Activities: Carleton University recognizes the substantial benefits, both to the individual student and for the university, that result from a student participating in activities beyond the classroom experience. Reasonable accommodation must be provided to students who compete or perform at the national or international level. Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist.

PETITIONS TO DEFER

Students unable to write a final examination because of illness or other circumstances beyond their control may apply within **three working days** to the Registrar's Office for permission to write a deferred examination. The request must be fully supported by the appropriate documentation. Only deferral petitions submitted to the Registrar's Office will be considered. See Undergraduate Calendar, Article 4.3.

ACADEMIC FREEDOM

As stated in the Collective Agreement between Carleton University and Carleton University Academic Staff Association (Article 4), "The common good of society depends upon the search for truth and its free exposition. Universities with academic freedom are essential to these purposes both in teaching and scholarship/research. Employees are entitled, therefore, to [...] freedom in carrying out teaching and in discussing their subject." Similarly, the Collective Agreement between the Canadian Union of Public Employees Local 4600 Unit 2 and Carleton University (Article 10) [...] protects each member's freedom to disseminate their opinion both inside and outside the classroom, to practice their profession as teacher and scholar, to carry out such scholarly and teaching activities as they believe will contribute to and disseminate knowledge."

WITHDRAWAL WITHOUT ACADEMIC PENALTY

The last day to withdraw from full fall term and fall/winter courses with a full fee adjustment is September 30th, 2023. The last day for a fee adjustment when withdrawing from winter term courses or the winter portion of two-term courses is January 31, 2024. The last day for academic withdrawal from full fall and late fall courses is November 15, 2023. The last day for academic withdrawal from full winter, late winter, and fall/winter courses is March 15, 2024.

WDN: For students who withdraw after the full fee adjustment date in each term the term WDN will be a permanent notation that appears on their official transcript.

OFFICIAL FINAL EXAMINATION PERIOD

Fall courses: December 10-22, 2023. Winter and Fall/Winter courses: April 13-25, 2024 (may include evenings & Saturdays or Sundays)

For more information on the important dates and deadlines of the academic year, consult the Carleton 2023-2024 Calendar.

Note that CGSC 3201 has a final exam in the exam period; the date is typically announced in the Fall break week.

GRADING SYSTEM

The grading system is described in the Undergraduate Calendar section 5.4.

PLAGIARISM

The University Senate defines plagiarism as "presenting, whether intentional or not, the ideas, expression of ideas or work of others as one's own." This can include reproducing or paraphrasing portions of someone else's published or unpublished material, regardless of the source, and presenting these as one's own without proper citation or reference to the original source. Examples of sources from which the ideas, expressions of ideas or works of others may be drawn from include but are not limited to: books, articles, papers, literary compositions and phrases, performance compositions, chemical compounds, artworks, laboratory reports, research results, calculations and the results of calculations, diagrams, constructions, computer reports, computer code/software, material on the internet and/or conversations.

Examples of plagiarism include, but are not limited to:

- any submission prepared in whole or in part, by someone else, including the unauthorized use of generative Al tools (e.g., ChatGPT);
- using ideas or direct, verbatim quotations, paraphrased material, algorithms, formulae, scientific or mathematical concepts, or ideas without appropriate acknowledgment in any academic assignment;
- using another's data or research findings without appropriate acknowledgement;
- submitting a computer program developed in whole or in part by someone else, with or without modifications, as one's own; and -failing to acknowledge sources through the use of proper citations when using another's work and/or failing to use quotations marks.

Plagiarism is a serious offence, which cannot be resolved directly with the course's instructor. The Associate Deans of the Faculty conduct a rigorous investigation, including an interview with the student, when an instructor suspects a piece of work has been plagiarized. Penalties are not trivial. They range from a mark of zero for the plagiarized work to a final grade of "F" for the course, and even suspension from all studies or expulsion from the University.

Important Information

- Students must always retain a copy of all work that is submitted.
- All final grades are subject to the Dean's approval.
- For us to respond to your emails, we need to see your full name, CU ID, and the email must be written from your valid CARLETON address. Therefore, in order to respond to your inquiries, please send all email from your Carleton CMail account. If you do not have or have yet to activate this account, you may wish to do so by visiting https://carleton.ca/its/help-centre/email/#sect2

RESOURCES (613-520-2600, phone ext.)

NOTE: some of these resources may only be accessible online

Resource	Location	
Department of Cognitive Science (2522)	2201 Dunton Tower	
Registrars Office (3500)	300 Tory	
Centre for Student Academic Support (3822)	4th floor Library	
Academic Advising Centre (7850)	302 Tory	
Paul Menton Centre (6608)	501 Nideyinàn (formerly University Centre)	
Writing Services (3822)	4th floor Library	
Career Services (6611)	401 Tory	

ACADEMIC ADVISING

Please email cogsci@carleton.ca for advising.

Class Schedule

Week	Date	Topic	Activity
1	September 7	Intro and History	_
2	September 12 & 14	Memory and the brain	_
3	September 19 & 21	Short-term memory	_
4	September 26 & 28	Working memory	Midterm 1 September 30
5	October 3 & 5	Learning	_
6	October 10 & 12	Episodic memory	_
7	October 17 & 19 October 23-27	Semantic memory Fall Break - no classes	_
8	October 31 & November 2	Retrieval	_
9	November 7 & 9	Incidental forgetting & Motivated forgetting	_
10	November 14 & 16	Autobiographical memory & Prospective memory	Midterm 2 November 18
11	November 21 & 23	Memory in childhood & aging & Amnesia	_
12	November 28 & 30	Eye-witness testimony	_
13	December 5 & 7	"Fake news"	_
13	December 10 - 22	Final exam period	Final exam date TBA

Critical Reading Checklist (from http://unilearning.uow.edu.au/reading/2b.html)

The questions on this checklist are designed as a guide to the process of reading academic texts critically and analytically. You can apply these questions to most academic texts.

- What is the author's approach/perspecttive?
- Is there another theoretical or philosophical approach which might have been taken?
- Who/what is left out of the text?
- Does the author write from an insider's/outsider's perspective? How does this affect what is included/excluded from the text?
- Do you agree with the points the author is making?
- Are the points made by the author supported by evidence?
- Is the evidence anecdotal or is the evidence the result of scientific research?
- Is the evidence referenced? Is it recent?
- Does the writer present opinion as fact?
- Does the writer use valid reasoning?
- Are any assumptions the writer has made clear to the reader?
- Does the writer oversimplify complex ideas?
- Does the writer make unsupported generalizations?
- Does the writer make reasonable inferences?
- Does the writer represent the ideas of others accurately? Fairly?
- Does the writer distort the ideas of others or present them out of context?
- Does the writer use unfair persuasion tactics such as appeals to prejudice or fear?
- Does the writer present a balanced picture of the issue?
- How would you characterize the writer's tone? How does the tone affect your response to the text?
- Does the writer's language, tone, or choice of examples reveal any biases? If so, do the writer's biases reduce his or her credibility?
- Do your reactions reveal biases in your own thinking?
- Does the text challenge your own values, beliefs, and assumptions?
- If the paper contains statistics, graphs, illustrations etc, are these adequately introduced and discussed and do they contribute to the author's argument?

Footnote: The questions on this checklist are adapted from: Kirszner, L.G., & Mandell, S.R. (1992). *The Holt handbook*, Sydney: Harcourt Brace College Publishers, pp. 100-117.

The questions below are some that are especially relevant to research articles.

- Are the limitations of the procedures clear?
- Is the methodology valid? (e.g., size of the sample, method of sampling used)
- Are the results consistent with the objectives?
- Are the results verifiable?
- Are the claims the author makes about his or her own research internally consistent, that is, are the aims, method, results and conclusion of the research logically consistent with each other (i.e., what is argued on the basis of the research is supported by the results; the methodology allows the aims of the research to be achieved)?
- Are the diagrams clear to the reader?

Footnote: These critical questions are adapted from: (1992) *Journal of Construction Engineering and Management,* 18, 1-2.

Course outline version history

• v1.0 original version (July 8, 2023)