

CGSC 1001A **Fall 2024**: Mysteries of the Mind Syllabus

Table of Contents

Basics 2

Course Information/Location/Time 2

Instructor’s name; office location & phone; email address; office hours: 2

Teaching Assistants..... 2

SONA Issues 3

Course description 3

Textbook 3

Evaluation, Marks, Grades 4

Grade Distribution and Evaluation..... 4

Extra credit..... 4

Quizzes and Final..... 4

Structure and Description..... 4

Deferrals..... 5

Reviewing Your Quizzes..... 5

What Happens When (Schedule) 5

Prejudice Experiences..... 8

Regulations and Information Common to all Courses 8

PLAGIARISM..... 8

Statement on Student Mental Health..... 9

Emergency Resources (on and off campus)..... 9

Carleton Resources 9

Off Campus Resources 9

Requests for Academic Accommodations..... 9

Important Information..... 10

Basics

Course Information/

Attendance			Term/Date	Materials	NOTES
In-person			Fall 2024 Sept 04- Dec 06	Brightspace (Lectures, Readings, Syllabus, Textbook PDF, Other)	IMPORTANT: Engineering students do not get credit for this as an elective! This is due to the forces of Engineering outside of the university.

Instructor's name; office location & phone; email address; office hours:

Ms. **Nadine Charanek**

Email: Please use the Brightspace discussion board for questions. If you do not want other students to see the question, contact the appropriate TA. If this will not (or does not) work, you may email the instructor at nadinecharanek@cunet.carleton.ca

Office hours: by appointment with TA; please use TA office hours for questions.

Teaching Assistants

If you want to meet with a TA, please try to make it to any TA's office hours before you request a meeting time outside of their office hours. Your assigned TA is based on your surname/last name. For instance, if your surname is Johnson, look for the TA in charge of surnames starting with J.

TA	Assigned Students (based on surnames)	Office Hours	Location/Zoom	Email	Role
	A, B, C, D, E, and F				Quiz Technical Issues (don't email them if you miss a quiz but when you have issues while taking a quiz)

	G, H, I, J, K, L, M, N				Answers Brightspace questions
	O, P, Q, R, S, T, U, V, W, X, Y, Z				PMC accommodations, deferrals and missed work

SONA Issues

Tarra Mason Ward	tarramasonward@cunet.carleton.ca	Not TA. Department UG admin for SONA issues. Do not contact TAs for SONA issues.
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Course description

The human mind is the most complex thing discovered yet in the universe. Learn about minds in humans, animals, and computers in this fascinating exploration of consciousness, memory, creativity, problem solving, perception, and your own biases. The introductory course will also cover fun topics such as how language develops, disorders of the mind and brain, illusions, and mind issues raised by popular movies and conspiracy theories. This course will guide you through the fascinating mysteries and the solutions found so far for our inner world.

Textbook/Readings

This course utilizes concepts and ideas based on David Eagleman’s book *The Brain: The Story of You*. The book is ***available on Brightspace*** under the module “Syllabus+ Documents”. The book is known for its easy-to-read format. It is very fun, clear, and concise. I highly encourage you to read it (pages will be assigned per lecture). Although its structure is not straightforward, concepts in class are easily searchable and located. Information is short and meaningful with great value, with an average read of 10-20 minutes. Other optional reading links are also provided weekly (see [What Happens When](#) section).

AS SEEN ON PBS

"The posterboy of neuroscience with ideas that will stretch your mind." —*The Observer*

THE BRAIN

THE STORY OF YOU



DAVID EAGLEMAN

BESTSELLING AUTHOR OF *INCOGNITO*

Evaluation, Marks, Grades

Grade Distribution and Evaluation

Your final grade will be based on 3 quizzes **AND** one final in-person exam.

A+ = 90-100 B = 73-76 C - = 60-62
A = 85-89 B - = 70-72 D+ = 57-59
A - = 80-84 C+ = 67-69 D = 53-56
B+ = 77-79 C = 63-66 D - = 50-52

Proportions of how marks contribute to your final course grade:

- 25% quiz 1
- 25% quiz 2
- 25% quiz 3
- 25% quiz 4 (final exam)

There's an online grade calculator at <https://apps.mercer.edu/registrarcalc/weightedaverage.html>

Extra credit

Extra credit is available in 0.5% units for each 30 minutes of participation, up to a maximum of 4% total, **by participating in a Department of Cognitive Science (DCS) experiment**. Participation in these activities is optional. For more information about how to participate in DCS experiments, go to the DCS SONA website. <https://carleton-ics.sona-systems.com/>

Again, your participation is entirely optional, but you are **encouraged** to do so to earn extra credit.

Please note that **DCS SONA is a separate system from the Department of Psychology**. Experiment participation done through psychology does not get you extra credit in a DCS course, and experiments participated in for DCS do not get you credit for psychology courses.

If you have questions about SONA, contact Tarra Mason-Ward
tarramasonward@cunet.carleton.ca

Quizzes and Final

Structure and Description

Quizzes will be multiple choice tests that you will take online through Brightspace.

Each quiz must be taken at the specified time.

Each quiz has two times you can write it, but you only get one attempt per quiz. The final quiz will be formally scheduled **in-person**.

You may not communicate with anyone else during the quiz; you may not use artificial intelligence to help you with the quiz; you may not take screenshots, or in any other way record questions.

You may use your notes and the slides while writing the quiz, but you won't have much time, so please study.

Generally, quizzes are Friday nights. That is when you should write the quiz, if possible. If you cannot make that time, you can opt to write it (generally) early the next Monday morning. But see the schedule ([What Happens When](#)) for specifics about when exactly these times are.

If you can't make either time, you will need a deferral, please contact the TA in charge of deferrals (see the first page for TA specializations). See below for deferral information.

You may not write both of the alternate times—you only get one attempt.

Although you have a window in which you can write the quiz, you will have about 36 minutes to complete each quiz. You have only one chance to answer each question. **You may not go back and change a previous answer.**

You may start at anytime within the time allocated for the quiz.

Each quiz will have 30 questions.

Material covered will be content from the book, anything in the slides, lectures, or videos shown during lectures.

The readings are there to help you understand the lecture material. So, if something is in the readings but not in the lecture, you are not responsible for knowing about it.

Deferrals

For quizzes, there are two opportunities to write each quiz, and one is very early in the morning during a time when everyone should be free. Set more than one alarm and have a friend call you if you plan to write this one, because I will not accept “I slept through my alarm” as an excuse. That being said, if you are busy during both times, you can request a deferral. Here is the procedure: Find the declaration in Brightspace under "Syllabus+Documents", print it out, fill it out, sign it, photograph/scan it, and email it to the TA in charge of deferrals (see first page). Please do not CC the instructor. If the deferral is approved, then you may write the exam at a later time. The TA will alert you as to when that will be. **YOU DO NOT NEED A DOCTOR'S NOTE.** Note that we keep these declarations on file to prevent abuse of the declaration system. **The deadline for deferral requests is the next quiz. For example, if quiz 2 happens, that means you missed your chance to ask for a deferral for quiz 1. That is, submit your quiz deferral before the next quiz.**

Reviewing Your Quizzes

I would like you to first talk to a TA about your exam/quiz. There is a specific TA assigned based on the first letter of your last name. That TA will be happy to go over your exam/quiz with you during their scheduled office hours (as listed in the syllabus.) I recommend contacting them via email first to let them know you're coming so they don't step out for a sandwich or something. **TAs can go over your quiz with you over video chat if they can see your hands (behind your head or visible on the desk, for example.) You are not allowed to take notes or record while doing this.**

IMPORTANT: the final exam is formally scheduled, and all deferral requests must go through the registrar (NOT the TA in charge of deferrals). Be sure to note the deferral deadline. <https://carleton.ca/registrar/deferral/>

What Happens When (Schedule)

Lectures will be on the dates specified. Lectures are all in-person and attendance is highly encouraged so that tests are not too difficult to get through. The dates listed below are important for keeping up with the class.

Dates	LECTURE NAME	OPTIONAL READING (10-20 min reads)
Sept. 4	1: Introduction to Class/Cognitive Science	Syllabus
Sept. 9	2: History of the Mind	Cognitive Science: The Study of Human Mind and Intelligence (spiceworks.com) Descartes and the Discovery of the Mind-Body Problem The MIT Press Reader
Sept. 11	3: Brain History and Structure	Understanding the brain: a brief history - Queensland Brain Institute - University of Queensland (uq.edu.au) The human connectome project: Chung Nature 2013 NV.pdf (stanford.edu)
Sept. 16	4: Perception (Vision)	Brigham Investigators Explore What Happens When We Look but Fail to See - Brigham Clinical & Research News (bwhclinicalandresearchnews.org)
Sept. 18	5: Perception (Hearing, Smell, Taste, Touch)	
Sept. 23	6: Memory	What Is Memory? (verywellmind.com) False Memories: How They're Formed in Your Brain (verywellmind.com)
Sept. 25	7: Learning and Hacking your Memory!	https://www.wikihow.com/Build-a-Memory-Palace

Sept. 30	8: Language and Communication	What Is The Sapir-Whorf Hypothesis? - Twinword
Wednesday Oct. 2	Quiz 1, covering lectures up to and including Language and Communication	No Class. Quiz Online Brightspace start anytime between 2:35 pm and 4:00 pm You will have 40 minutes.
Thursday Oct. 3	Quiz 1 (alternate time)	Start anytime between 7:30am and 8:30am You will have 40 minutes.
Oct. 7	9: Development	Autism Disorder
Oct. 9	10: The Disordered Mind and Brain	What Happens to the Brain in Alzheimer's Disease? National Institute on Aging (nih.gov)
Oct. 14	11: Reflexes, Addiction, and Psychedelics	The Cognitive Level
Oct. 16	12: Control	The Secret of Self-Control https://nautil.us/this-is-how-your-brain-walks-the-doga-dialogue-238145/
Oct. 21-25	FALL BREAK- NO CLASSES	
Oct. 28	13: Morality and Impulses	Moral Thinking
Oct. 30	14: Biases	List of all known biases
Nov. 4	15: Myths of Cognitive Science	Common Psychology Myths Myths of CogSci Chapter
Nov. 6	Quiz 2, covering all lectures up to and including Biases	No Class. Start anytime between 2:35 pm and 4:00 pm. You will have 40 minutes.

Thursday Nov. 7	Quiz 2 (alternate time)	Start anytime between 7am and 8:30am You will have 40 minutes.
Nov. 11	16: Animal Intelligence	The Cognitive Trade-Off hypothesis
Nov. 13	17: Evolutionary Psychology	Evolutionary Psychology Evolution Human Evolution How Humans Got So Smart
Nov. 18	18: Conspiracy Theories	AI taking over Mind Control
Nov. 20	Quiz 3, covering all lectures up to and including Cognitive Science and the Real World	No Class. Start anytime between 7pm and 8:30pm. You will have 36 minutes.
Thursday Nov. 21	Quiz 3 Alternate time	Start between 6:00am and 7:30
Nov. 25	19: Dreaming	Dreaming Chapter https://mindingthebrainpodcast.com/2021/01/01/36-dreams/
Nov. 27	20: Consciousness	Consciousness Essay Consciousness Chapter Consciousness Video
Dec. 2	21: Artificial Intelligence	How AI mimics brain processes
Dec. 4	22: AI, the Brain, and NeuroTech	NeuraLink Eagle Eye Chat GPT and LLMs Brain Chips
Dec. 6:	23: Cognitive Science and the Real World	Video Games False Memory Human-Computer Interaction MK ULTRA! Canada's Brainwashing Project
Final exam: TBD	Final Exam (AKA quiz 4; same	IMPORTANT: the final exam is formally scheduled sometime between Dec 9 and 21. All deferral

	<p>length and format of other quizzes, formally scheduled including all lectures</p>	<p>requests must go through the registrar (NOT the TA in charge of deferrals). Be sure to note the deferral deadline. https://carleton.ca/registrar/deferral/</p>
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The withdrawal deadline is September 30, 2024 (

Prejudice Experiences

If you have experienced prejudice and want to report it or just talk to someone, please contact the Department of Equity and Inclusive Communities (EIC).

<https://carleton.ca/equity/>

Regulations and Information Common to all Courses

PLAGIARISM

The University Academic Integrity Policy defines plagiarism as “*presenting, whether intentionally or not, the ideas, expression of ideas or work of others as one’s own.*” This includes 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 AI 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
- failing to acknowledge sources with proper citations when using another’s work and/or failing to use quotations marks

Plagiarism is a serious offence that cannot be resolved directly by the course’s instructor. The Associate Dean of the Faculty conducts 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 can include a final grade of “F” for the course.

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 Accommodations

ACADEMIC ACCOMMODATION

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

Pregnancy 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 accommodation regarding a formally-scheduled final exam, you must complete the Pregnancy Accommodation Form ([click here](#)).

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 [click here](#).

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, please request your accommodations for this course through the [Ventus Student Portal](#) 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*). Requests made within two weeks will be reviewed on a case-by-case basis. For final exams, the deadlines to request accommodations are published in the [University Academic Calendars](#). 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 where 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: <https://carleton.ca/equity/sexual-assault-support-services>

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 will be provided to students who compete or perform at the national or international level. 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. <https://carleton.ca/senate/wp-content/uploads/Accommodation-for-Student-Activities-1.pdf>

Important Information

- Students must always retain a hard copy of all work that is submitted.
- Standing in a course is determined by the course instructor subject to the approval of the Faculty Dean. This means that grades submitted by the instructor may be subject to revision. No grades are final until they have been approved by the Dean
- 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 <http://carleton.ca/ccs/students/>
- March 15, 2024: Last day for academic withdrawal from full winter, late winter and fall/winter courses.

For a list of dates and deadlines, including holidays and exam dates, please visit:

<https://calendar.carleton.ca/academicyear/>