

Course Syllabus

830:305 Cognition Fall 2022

Instructor: Arnold Glass, Office hours are by appointment through email. Email: aglass@rutgers.edu

Teaching Assistant:

Email:

Time and Location: The course meets every Tuesday and Thursday.

section 4: 2:00 - 3:20 Tillett 257

section 5: 3:50 – 5:10 Tillett 257

Book: Cognition: A Neuroscience Approach by Arnold Glass, published by Cambridge University Press. Available from the Barnes and Noble Rutgers bookstore and, of course, online.

Class Preparation: Two - five days before each class or exam, a quiz will be available at Tests & Quizzes.

In order to benefit from the class structure, you should perform the following assignments in the following order:

First, you should do the assigned reading.

Second, you should take the timed online homework quiz. Do not click on it until you are ready to proceed with the entire quiz. **You will only be able to take the timed assessment once.** Hence, once you open it you must answer all of the questions and submit it for grading. Otherwise, you will not receive credit. You cannot begin it, close it, and come back and complete it later.

Each online quiz will be available from 6:00 pm on the previous class day until 2:00 PM on the day of the next class. The quiz will not be available at any other time. If you skip a quiz you will not be able to take it later.

Third, you should take notice of the feedback for any questions you get wrong. Immediately after you submit a quiz feedback will be available. So you will be able to review the correct answers before class. It is very important that you understand why the correct answer is the correct answer so that you can correctly answer a similar question in the future. If you are not certain why an answer is correct you should consult the text and slides and if you still do not understand you should send me an email.

Students are strongly urged to first read the assignment and then take the quiz, taking notice of the correct answers for those questions gotten wrong. Every practice quiz question is similar or identical to a question that will appear in class and on an exam. Hence, there is no better way of preparing for class and the exams than by doing the reading and taking the practice quizzes.

Fourth, you should attend class. You will need a device with online access to take the class quizzes.

The information you must learn from this course is encoded in about 134 5-question sets. All four questions in each set are about the same fact-statement. So knowing the answer to one question in the set implies knowing the answer to them all. Let us call five questions in the same set: Q1, Q2, Q3, Q4 and Q5. Q1 will appear on the online quiz before class. Q2 will appear in class and Q3 will appear on as an online review question before the next hourly exam. Q4 will appear on an hourly exam and Q5 will appear on the final. If you take all the quizzes and participate in all the classes, you should get 90% correct on the exams. If you get 90% correct on the exams then you will get an A in the course.

Lecture Notes: The Power Point slides used in class are available on the course website. There may be slight differences in the slides I use in class because I am always updating and revising my notes.

Exams: There will be 3 exams during the semester and a fourth cumulative final exam during the final exam period.

If you miss an exam and your excuse is accepted then you will be excused from the exam. Make up exams are not given.

If you miss an exam and your excuse is not accepted then you will receive a zero for that exam.

Final Exams: Tuesday December 20, 12 - 3 pm. Thursday December 22, 4 - 7 pm.

We would prefer it if you would take the final exam the first time that it is offered.

Grading: Final grades will be determined by the following point system: 90%-A, 80%-B, 70%-C. Plus grades will be determined by the distribution of scores. For each block, two grades will be computed: for the online quizzes (q, d) and for the exam (e).

You are responsible for knowing the material on this syllabus.

Syllabus:

Tuesday Sept. 6 Ch. 1 Evolution of Action

[Evolution of Learning](#)

Thursday Sept. 8 Ch. 2 Evolution of Cognition
2.1, 2.2

[Improvisational & Habit Learning](#)

Tuesday Sept. 13 Ch. 2 Evolution of Cognition
2.3 - 2.5

[Systems & Skills](#)

Thursday Sept. 15 Ch. 3 Motor Action 3.1 - 3.3

[Skill Learning: Generalization](#)

Tuesday Sept. 20 Motor Action 3.4 - end

[Skill Learning: Sequences](#)

Thursday Sept. 22 Ch. 4 Mental Action 4.1 - 4.4

[Attention 1: Looking & Listening](#)

Tuesday Sept. 27 Ch. 4 Mental Action 4.5 - 4.8

[Attention 2: Task Performance](#)

Thursday Sept. 29 Ch. 5 Serial Learning, Talent

[Serial Learning, Talent](#)

Tuesday	Oct. 4		(Links to an external site.) EXAM 1
		Ch. 6 Vision 6.1 - 6.4	
Thursday	Oct. 6	Stranger in the Mirror, Media Gallery	(Links to an external site.)
		Visual Perception	
Tuesday	Oct. 11	Ch. 6 Vision 6.5 - 6.8	
		Visual Recognition	
Thursday	Oct. 13	Ch. 7 Semantic Memory	
		Semantic Memory	
Tuesday	Oct. 18	Ch. 7 Language	
		Language Processing	
Thursday	Oct. 20	Ch. 8 Infant Learning 8.1	
		Infant Learning	

Tuesday Oct. 25 Ch. 8 Language Learning 8.2

[Language Learning](#)

Thursday Oct. 27 Ch. 9 Categorization

[Causal Learning](#)

Tuesday Nov. 1 p. 291 - 292 & Ch. 10
Rehearsal Mnemonic 10.1 -
10.3

[Rehearsal](#)

Thursday Nov. 3 Ch. 10 Other Mnemonics 10.4,
10.5

[Elaboration & Imagery](#)

Tuesday Nov. 8 **Exam 2**

Thursday Nov. 10 Ch. 10 Amnesia 10.6

[Consolidation & Amnesia](#)

Tuesday Nov. 15 Ch. 11 Recognition

[Recognition Judgment](#)

Thursday Nov. 17 Ch. 12 Recall

[Recall](#)

Tuesday Nov. 22 Ch. 13 Autobiographical Mem.

[Autobiographical Memory](#)

Thursday Nov 24 Thanksgiving Have a great day!

Tuesday Nov. 29 Ch. 14 Reasoning 14.1, 14.2

[Reasoning 1](#)

Thursday Dec. 1 Ch. 14 Reasoning 14.3 - 14.6

Reasoning 2

Tuesday Dec. 6 Ch. 15 Problem Solving
15.1 - 15.3

Problem Solving

Thursday Dec. 8 Ch. 15 Intelligence 15.4

Intelligence

Tuesday Dec. 13 **Exam 3**

Academic Integrity:

Quizzes and exams should be performed without assistance.

<http://academicintegrity.rutgers.edu/academic-integrity-policy/> (Links to an external site.)

Self-Reporting Absence Application:

Students are expected to attend all classes; if you expect to miss one or two classes, please use the University absence reporting website <https://sims.rutgers.edu/ssra/> (Links to an external site.) to indicate the date and reason for your absence. An email is automatically sent to me.

If you miss an exam and your excuse is accepted then your class participation grade will be substituted for your exam grade. Make up exams are not given.

If you miss an exam and your excuse is not accepted then you will receive a zero for that exam.

You are responsible for knowing the material on this syllabus.

Students with Disabilities:

Students with disabilities requesting accommodations must follow the procedures outlined at <https://ods.rutgers.edu/students/registration-form> (Links to an external site.).

Full disability policies and procedures are at <https://ods.rutgers.edu/> (Links to an external site.)

Student-Wellness Services:

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Just In Case Web App (Links to an external site.)

<http://codu.co/cee05e> (Links to an external site.)

Access helpful mental health information and resources for yourself or a friend in a mental health crisis on your smartphone or tablet and easily contact CAPS or RUPD.

Counseling, ADAP & Psychiatric Services (CAPS)

(848) 932-7884 / 17 Senior Street, New Brunswick, NJ 08901 / www.rhscaps.rutgers.edu/ (Links to an external site.)

CAPS is a University mental health support service that includes counseling, alcohol and other drug assistance, and psychiatric services staffed by a team of professional within Rutgers Health services to support students' efforts to succeed at Rutgers University. CAPS offers a variety of services that include: individual therapy, group therapy and workshops, crisis intervention, referral.

Violence Prevention & Victim Assistance (VPVA)

(848) 932-1181 / 3 Bartlett Street, New Brunswick, NJ 08901 / www.vpva.rutgers.edu/ (Links to an external site.)

The Office for Violence Prevention and Victim Assistance provides confidential crisis intervention, counseling and advocacy for victims of sexual and relationship violence and stalking to students, staff and faculty. To reach staff during office hours when the university is open or to reach an advocate after hours, call 848-932-1181.

Disability Services

(848) 445-6800 / Lucy Stone Hall, Suite A145, Livingston Campus, 54 Joyce Kilmer Avenue, Piscataway, NJ 08854 / <https://ods.rutgers.edu/> (Links to an external site.)

Rutgers University welcomes students with disabilities into all of the University's educational programs. In order to receive consideration for reasonable accommodations, a student with a disability must contact the appropriate disability services office at the campus where you are officially enrolled, participate in an intake interview, and provide documentation: <https://ods.rutgers.edu/students/documentation-guidelines> (Links to an external site.). If the documentation supports your request for reasonable accommodations, your campus's disability services office will provide you with a Letter of Accommodations. Please share this letter with your instructors and discuss the

accommodations with them as early in your courses as possible. To begin this process, please complete the Registration form on the ODS web site at: <https://ods.rutgers.edu/students/registration-form> (Link