

Course Syllabus

830:305 Cognition Fall 2021

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

Teaching Assistants:

Email:

Time and Location:

The course meets every Tuesday and Thursday.

section T2: 3:00 - 4:20 online

section T3: 5:00 – 6:20 online

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 6:30 pm on the previous class day until 3:00 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 online, you will need a laptop to view the class and a cell phone to answer the questions.

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.

Class Participation: Each student will receive a class participation grade for each third of the course based on the number of questions answered correctly in class. If the class participation grade is higher than the exam grade then it will be averaged with the exam grade for that third of the course. Otherwise, it will not count. Hence, class participation can raise but cannot lower your exam grade.

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 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.

Final Exam: TBD.

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, three grades will be computed: for the online quizzes (q), for the in-class quizzes (c), and for the exam (e). The online and in-class grades will only be based on questions for which a related question appears on the exam.

You are responsible for knowing the material on this syllabus.

Syllabus:

Thursday	Sept. 2	Ch. 1 Evolution of Action	Evolution of Learning
Tuesday	Sept. 7	Ch. 2 Evolution of Cognition 2.1, 2.2	Improvisational & Habit Learning
Thursday	Sept. 9	Ch. 2 Evolution of Cognition 2.3 - 2.5	Systems & Skills
Tuesday	Sept. 14	Ch. 3 Motor Action 3.1 - 3.3	Skill Learning: Generalization
Thursday	Sept. 16	No Class	Skill Learning: Sequences
Tuesday	Sept. 21	Ch. 4 Mental Action 4.1 - 4.4	Attention 1: Looking & Listening
Thursday	Sept. 23	Ch. 4 Mental Action 4.5 - 4.8	Attention 2: Task Performance
Tuesday	Sept. 28	Ch. 5 Serial Learning, Talent	Serial Learning, Talent
Thursday	Sept. 30		EXAM 1
Tuesday	Oct. 5	Ch. 6 Vision 6.1 - 6.4	Visual Perception
Thursday	Oct. 7	Ch. 6 Vision 6.5 - 6.8	Visual Recognition
Tuesday	Oct. 12	Ch. 7 Semantic Memory	Semantic Memory
	Oct. 14	Ch. 7 Language	Language Processing
ay	Oct. 19	Ch. 8 Infant Learning 8.1	Infant Learning
Thursday	Oct. 21	Ch. 8 Language Learning 8.2	Language Learning
Tuesday	Oct. 26	Ch. 9 Categorization	Causal Learning
Thursday	Oct. 28	p. 291 - 292 & Ch. 10 Rehearsal Mnemonic 10.1 - 10.3	Rehearsal
Tuesday	Nov. 2	Ch. 10 Other Mnemonics 10.4, 10.5	Elaboration & Imagery
Thursday	Nov. 4		Exam 2

Tuesday	Nov. 9	Ch. 10 Amnesia 10.6	Consolidation & Amnesia
Thursday	Nov. 11	Ch. 11 Recognition	Recognition Judgment
Tuesday	Nov. 16	Ch. 12 Recall	Recall
Thursday	Nov. 18	Ch. 13 Autobiographical Mem.	Autobiographical Memory
Tuesday	Nov. 23	Ch. 14 Reasoning 14.1, 14.2	Reasoning 1
Tuesday	Nov. 30	Ch. 14 Reasoning 14.3 - 14.6	Reasoning 2
Thursday	Dec. 2	Ch. 15 Problem Solving 15.1 - 15.3	Problem Solving
Tuesday	Dec. 7	Ch. 15 Intelligence 15.4	Intelligence
Thursday	Dec. 9		Exam 3