

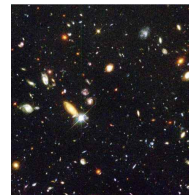
Introduction

PSY 200
Greg Francis
Lecture 01

Four great mysteries.

Four great mysteries

- Humans face four great mysteries about the universe
- 1) Why is there something instead of nothing?
 - This is the domain of physics
 - Most of us are not going to understand the ideas
 - Leptogenesis



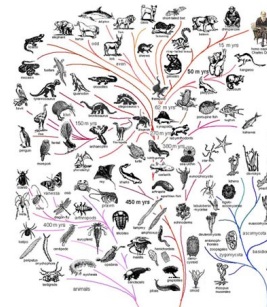
Four great mysteries

- Humans face four great mysteries about the universe
- 2) How did life form?
 - This question is addressed at the boundary between chemistry and biology



Four great mysteries

- Humans face four great mysteries about the universe
- 3) Why is there so much diversity of life?
 - This is the domain of biology
 - Evolution and natural selection answer this question



Four great mysteries

- Humans face four great mysteries about the universe
- 4) What is the basis of human intelligence and consciousness?
 - Cognitive psychology and neuroscience
 - Far from a complete answer
 - Lots of issues to discuss



Topics

- Discuss a sample of issues in cognitive psychology / cognitive neuroscience
- Try to relate cognitive psychology to stories you may have heard in the popular press
- Identify how the topics can help you to be a better person

Topics

- For example
 - ♦ *What's the deal with left and right brains?*
 - ♦ *Why does everyone love Prozac?*
 - ♦ *Why telephone operators seem rude.*
 - ♦ *Why there is a gate at the first floor stairway in the Psychology building.*
 - ♦ *What to do if you are drunk while studying for an exam.*
 - ♦ *What is the plural of walkman?*

Textbook

- There is no textbook
- Lecture notes are used instead
- If you want a book, borrow from a past class
- There are optional readings in the syllabus
 - ♦ Not for every subject

Lecture notes

- Downloadable from the Prof. Greg Francis class web page
 - ♦ Adobe Acrobat (pdf) format
 - ♦ Reduced form (6 to a page)



Lectures

- I will record the lecture and post the recording on the class website (details to be determined)
- Should a lecture be canceled, I will post a recording from a previous semester
- I encourage questions during lectures

Attendance

- Class attendance is **mandatory**
- At the start of class pick up a bubble sheet and enter your information
 - ♦ Provide an answer (any option) for item 1
 - ♦ The bubble sheets are only available for the first 10 minutes of the class period
- At the end of class drop off the bubble sheet at the front or back of the room
- Attendance counts as 10% of your class grade
- Everyone gets 6 misses before it impacts your grade

Course web page

- Syllabus on the web
- <http://www.psych.purdue.edu/~gfrancis/Classes/PSY200/indexF23.html>
 - ♦ updates to the syllabus
 - ♦ Links to lecture recordings
 - ♦ Links to labs
 - ♦ Links to writing assignments
 - ♦ Study guides for the exams
 - ♦ Links to optional readings
 - ♦ Grades will be posted after the first exam
- The course does not use BrightSpace

Course outline

- Neuroscience -- EXAM 1 (15%)
- Perception, Attention & Memory -- EXAM 2 (15%)
- Memory & Mental representation -- Exam 3 (15%)
- Language -- Exam 4 (15%)
- Reasoning
- *Cumulative* Final (15%)

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Exams

- In class
- 25 multiple choice questions, 5 short-answer questions
- Detailed study guides are already on the class web site

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Practice Exams

- From Spring 2016
- Available on the class website

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CogLab

- Homework
- You participate in classic experiments
- Total lab grade contributes to 15% of your class grade.
- Grade is based solely on *completing* the experiment on time, not on the quality of the data

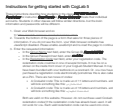
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CogLab

- Labs are listed on the syllabus
- They must be completed by **1:00 pm** at the date indicated in the syllabus
 - else you get no credit
 - Better to do it the night before
- Since I wrote CogLab, you get access to the experiments for free
 - (a \$50 value!)
- See handout for instructions on getting started (sent by email)
- Registration code is near the bottom of page 2
- *First lab is due at 1:00 pm on Wednesday!* (all times Eastern US)

CogLab: The Online Cognition Lab



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Grading

- Straight scale
 - 98% - 100% A+
 - 93% - 97% A
 - 90% - 92% A-
 - 88% - 89% B+
 - 83% - 87% B
 - 80% - 82% B-
 - 78% - 79% C+
 - 73% - 77% C
 - 70% - 72% C-
 - 68% - 69% D+
 - 63% - 67% D
 - 60% - 62% D-
 - 0% - 59% F

No extra credit

- No rounding up: 82.99 is a B-

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Grading

- Previous semester's grades (Spring 2020)

	E1	E2	E3	E4	Final	CogLab	Writing	Attendance	Total
Average	77	71	72	83	72	83	64	92	75
Max	100	100	100	100	98				

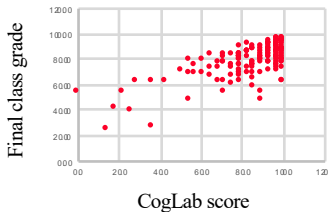
- Last semester's grades (Fall 2020)

	E1	E2	E3	E4	Final	CogLab	Writing	Total
Average	78	76	75	86	81	85	85	80
Max	96	100	96	100	99			


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Grading

- Last semester's grades (Fall 2020)




Grade	Frequency
A	32
B	65
C	40
D	18
F	11

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Instructor office hours

- During scheduled class lecture time
- Monday, Wednesday, Friday, 2:00 – 3:00 pm
 - ♦ Or by appointment
 - ♦ PSYCH 3186
 - ♦ Email: gfrancis@purdue.edu

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Teaching assistants

- Corey Nack
- Grade exams
- Keep track of grades
- Have office hours (PSYCH 3192)
 - ♦ Tuesday, Thursday 10:00 am – 12:15 pm

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Attitude/Advice

- Print out the lectures and bring them to class. Take notes during class. Not everything is on the slides.
- Everything we talk about in class is important
- Get the “free” attendance points by attending every lecture
- Stay on top of the CogLab assignments, sometimes more than one lab is due for a given day
- Don't wait till the last minute to do an assignment
- Work on the study guide every week, so the ideas/answers from lecture are fresh in your mind.
- This class is an introductory class, but that does not mean it is easy
 - ♦ It's like *Introduction to Physics* or *Introduction to Chemistry*
 - ♦ Almost every other subtopic in psychology depends on the ideas in cognitive psychology
 - ♦ Everything is at least 10,000 times more complicated than what we discuss
- If you don't find a topic interesting, just wait a week

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Next time

- Cognitive neuroscience
- The brain
- The modularity hypothesis
- CogLab on Brain asymmetry due!
- *What's the deal with left and right brains?*

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