

# PSYCH 260.001

Fall 2025

2026-01-20

## The Neurological Bases of Human Behavior

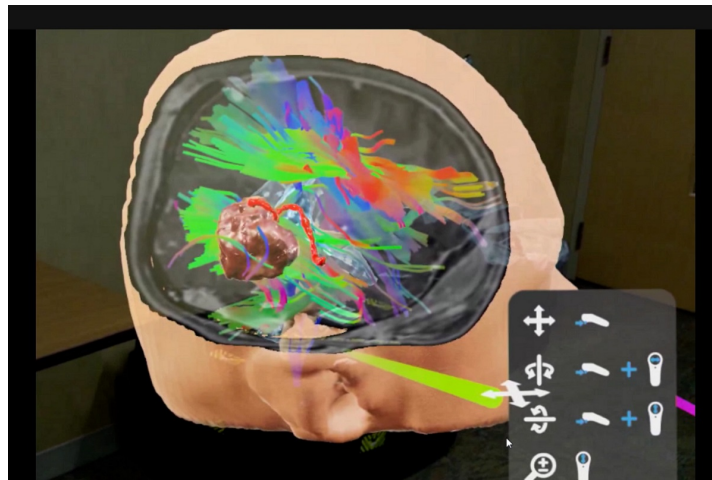


Figure 1: “A GPS for your mind” (2023)

## Themes

There is no more fascinating or challenging field of inquiry than the nature, origin, structure, and functioning of the human mind and the behavior it enables. This course will examine human mental states and observable behaviors from a biological basis, especially focusing on the evolution, development, structure, and functioning of the nervous system.

### **i** Note

Textbook reading assignments in the Watson & Breedlove text, *The Mind's Machine* will be indicated by the following shorthand: 'MM pp 3-15'. This means to read pages 3 to 15. Note that the text covers material we won't cover in class. If we don't cover material in class, you aren't responsible for it. That said, you may find it interesting to learn and know about anyway.

## **Week 01**

**Tue, Aug 26, 2025**

*Course introduction*

- *Read:* MM pp 3-16
- *Slides:* | [html](#) |

**Thu, Aug 28, 2025**

*History of neuroscience, levels of analysis, methods*

- *Read:* MM pp 3-16
- *Watch:* National Geographic (2014), NeuroBriefs (2011), Eames Office (2010)
- *Slides:* | [html](#) |

## **Week 02**

**Tue, Sep 2, 2025**

*Methods II*

- *Read:* MM pp 44-50
- *Watch:* National Institute on Biomedical Imaging and Bioengineering (n.d.), Video (2010), Understanding Animal Research (2009)
- *Slides:* | [html](#) |

**Thu, Sep 4, 2025**

*Neuroanatomy I*

- *Read:* MM pp 27-44
- Extra credit assignment due: [Canvas dropbox](#)
- *Slides:* | [html](#) |

**Week 03**

**Tue, Sep 9, 2025**

*Neuroanatomy II*

- *Read:* MM pp 16-27
- *Slides:* | [html](#) |

**Thu, Sep 11, 2025**

*Neuroanatomy III; Quiz 1*

- *Slides:* | [html](#) |

**Week 04**

**Tue, Sep 16, 2025**

*Cells of the nervous system; Neurophysiology I*

- *Read:* MM pp 20-27
- *Slides:* | [html](#) |

**Thu, Sep 18, 2025**

*Neurophysiology II*

- *Read:* MM pp 58-74
- *Slides:* | [html](#) |

## **Week 05**

**Tue, Sep 23, 2025**

*Neurophysiology III; Exam 1 Review*

- *Slides:* | [html](#) |

**Thu, Sep 25, 2025**

*Exam 1*

## **Week 06**

**Tue, Sep 30, 2025**

*Neurochemistry I*

- *Read:* MM pp 86-100
- *Slides:* | [html](#) |

**Thu, Oct 2, 2025**

*No Class*

## **Week 07**

**Tue, Oct 7, 2025**

*Neurochemistry II*

- *Read:* MM pp 102-106, 122-123
- *Slides:* | [html](#) |

**Thu, Oct 9, 2025**

*Hormones*

- *Read:* MM pp 248-266
- *Slides:* | [html](#) |

## **Week 08**

**Tue, Oct 14, 2025**

*Quiz 2; Evolution*

- *Slides:* | [html](#) |
- *Watch:* Scale: (2023)

**Thu, Oct 16, 2025**

*Development*

- *Read:* MM pp 124-134, 145
- *Slides:* | [html](#) |

## **Week 09**

**Tue, Oct 21, 2025**

*Exam 2 Review*

- *Slides:* | [html](#) |

**Thu, Oct 23, 2025**

*Exam 2*

## **Week 10**

**Tue, Oct 28, 2025**

*Psychopathology I*

- *Read:* MM pp 106-108, 412-405
- *Slides:* | [html](#) |

**Thu, Oct 30, 2025**

*Psychopathology II*

- *Read:* MM pp 106-108, 386-394
- *Slides:* | [html](#) |

## **Week 11**

**Tue, Nov 4, 2025**

*Election Day • No Class*

**Thu, Nov 6, 2025**

*Emotion I*

- *Read:* MM pp 356-369
- *Slides:* | [html](#) |

## **Week 12**

**Tue, Nov 11, 2025**

*Emotion II; Quiz 3*

- *Read:* MM pp 375-383
- *Slides:* | [html](#) |

**Thu, Nov 13, 2025**

*Sensory Systems*

- *Read:* MM pp 148-157
- *Slides:* | [html](#) |

## Week 13

**Tue, Nov 18, 2025**

*Somatosensation*

- *Slides:* | [html](#) |

**Thu, Nov 20, 2025**

*Action I; Exam 3 Review*

- *Read:* MM pp 148-157
- *Slides:* | [html](#) |

**Thanksgiving**

**NO CLASS**

## Week 14

**Tue, Dec 2, 2025**

~~Exam 3~~ (rescheduled for Thursday)

**Thu, Dec 4, 2025**

*Exam 3*

### Note

Slides and material for the following topic are provide here for students' reference.  
*Action II*

- *Slides:* | [html](#) |

## Week 15

**Tue, Dec 9, 2025**

*Memory; Quiz 4*

- Slides: | [html](#) |

**Fri, Dec 12, 2025**

*Frontiers in neuroscience; Exam 4 review; The Cerebral Symphony*

- Slides: | [html](#) |

## Finals

**Tue, Dec 16, 2025**

*Exam 4 (Final)*, 4:40-6:30 pm in 114 Steidle

## References

- A GPS for your mind: Penn State Health's Brainlab surgical system helps teen recover from hemorrhage. (2023, October 30). Retrieved August 18, 2025, from <https://pennstatehealthnews.org/2023/10/a-gps-for-your-mind-penn-state-healths-brainlab-surgical-system-helps-teen-recover-from-hemorrhage/>
- Eames Office. (2010). *Powers of Ten<sup>TM</sup> (1977)*. YouTube. Retrieved from <https://www.youtube.com/watch?v=0fKBhvDjuy0>
- National Geographic. (2014, January). Beautiful 3-D brain scans show every synapse | national geographic. YouTube. Retrieved from <https://www.youtube.com/watch?v=nvXuq9jRWKE>
- National Institute on Biomedical Imaging and Bioengineering. (n.d.). *How does an MRI scan work?* YouTube. Retrieved from <https://www.youtube.com/embed/1CGzk-nV06g>
- NeuroBriefs. (2011). *The ascent: A brief history of the brain*. YouTube. Retrieved from <https://www.youtube.com/watch?v=S0HKupSZq8k>
- Scale, T. (2023). *To scale: TIME*. YouTube. Retrieved from <https://www.youtube.com/watch?v=nOVvEbH2GC0>
- Understanding Animal Research. (2009). *Parkinson's disease*. YouTube. Retrieved from <https://www.youtube.com/watch?v=KDjWdtDyz5I>
- Video, N. (2010). *Method of the year 2010: Optogenetics - by nature video*. YouTube. Retrieved from <https://www.youtube.com/watch?v=I64X7vHSHOE&list=PLRstm0n591-rBbOeC0SJey20-NwXpLo4G>