

Bringing it all together

Core questions

- **What** is neural engineering?
- **Why** do we want to do neural engineering?
- **Who** benefits from this work?
- **What** do we need to know about the brain and body in order to do neural engineering right?
- **What** can neural engineering do that can't be done with other forms of treatment?

[2]

Review of topics

- General neuroanatomy and neurophysiology (lectures 2-4)
- Systems of the brain (lecture 5-6)
- Diseases and injuries of the nervous system (lecture 7)
- Principles of engineering (lecture 8)
- Major types of neural engineering designs (lectures 9-10)
- Senses and sensory systems, sensory engineering (lectures 11-14)
- Motor control and systems, motor engineering (lectures 15-16)

(3)

What does a career in neural engineering look like?



(4)

Why does it matter?



[5]

Team

- University of Washington Center for Sensorimotor Neural Engineering (CSNE), an NSF Engineering Research Center
- University of Washington Math-Science Upward Bound, a US Dept of Education and Trio Program
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 - Dave Wolczyk, Math-Science Upward Bound
 - Dr Eric Chudler, CSNE and Electrical Engineering
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 - Tim Brown, Philosophy and CSNE
 - Jenny Cronin, Bioengineering and CSNE
 - James Wu, Bioengineering and CSNE
 - The students of the 2016 and 2017 live versions of the course

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