

Ethical Considerations in Neurotech

In this hybrid interdisciplinary course, learners apply a bioethics lens to evaluate applications of neurotechnologies across the medical and consumer sectors, and how they may be co-opted for use by organizations such as the military, workplaces, and schools. Learners attend bi-weekly tutorials and complete 4 asynchronous online modules:



Module 01

Intro to Neurotech and Neuroethics

An introductory module to the basics of neuroscience, neurotechnology, and the TALES neurotech impact assessment framework



Module 02

Medical Neurotech

Explore fundamentals of medical neurotechnology then analyze case studies using TALES (portable MRI, visual neuroprosthetics).



Module 03

Consumer Neurotech

Explore fundamentals of consumer neurotechnology then analyze case studies using TALES (direct-to-consumer EEG and tDCS)



Module 04

Organizational Use of Neurotech

Explore contemporary and anticipatory examples of neurotech usage mandated by organizations, then use TALES to analyze case-studies (workplace neuroimaging)

Timeline

Course must be completed in
12 weeks

Completing course takes
approximately
50 hours

Tech Requirements

Regular access to a computer and a stable internet connection

Compatible internet browser
(Google Chrome is recommended)

Recommended Prerequisites

Neuroscience and Neurotech
Primer Microcredential.
and/or
Enrolled in or graduated from
some post-secondary
education

Learning Outcomes

1. Differentiate between the different neurotechnologies and their use cases.
2. Using the TALES impact assessment framework, evaluate the legal, ethical, and social considerations related to medical devices, consumer devices, and the mandated use of neurotech by organizations.
3. Critically evaluate anticipatory/speculative considerations about neurotech applications.



Technology



Analysis



Legal



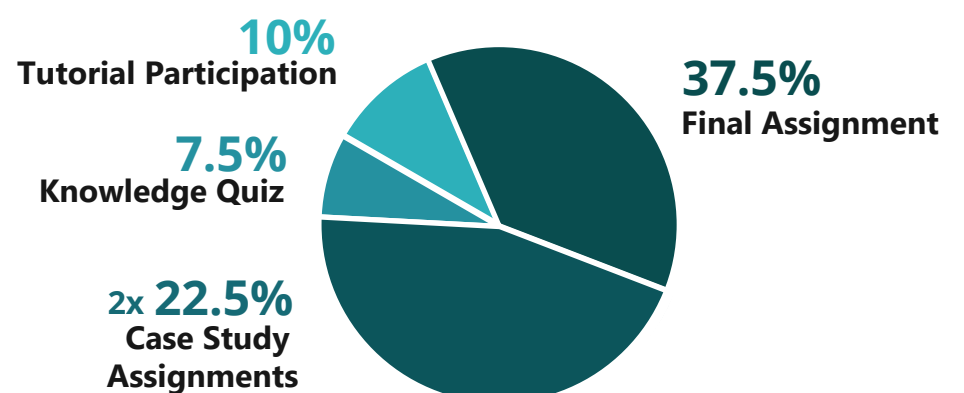
Ethics



Social

Assessments

A pass in this course requires achievement of an overall grade of 70%.



Contact Information

Content and Accommodation Related Questions:

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Linked 

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