

## Neural-Machine-Interfaces and Assisted Human Movement

Fall 2024 Graduate Course Offering

This course will introduce topics related to bionic assistive devices, human-machine neural interfaces, and their applications in restoring and understanding impaired human movement. Content includes selected topics in: brain, spinal cord, and peripheral nerve organization; closed-loop control of body movements; biomechanical analyses of human movement; neural-machine interfaces and techniques to directly interface machines with the human nervous system. This course includes multiple guest lectures from experts in the field. Open to all students enrolled in engineering or neuroscience-based graduate programs.

### Registration Information:

Department: Mechanical and Aerospace Engineering

MAE 298 – Group Study (4 course units)

Instructor: Prof Jon Schofield ([jschofield@ucdavis.edu](mailto:jschofield@ucdavis.edu))

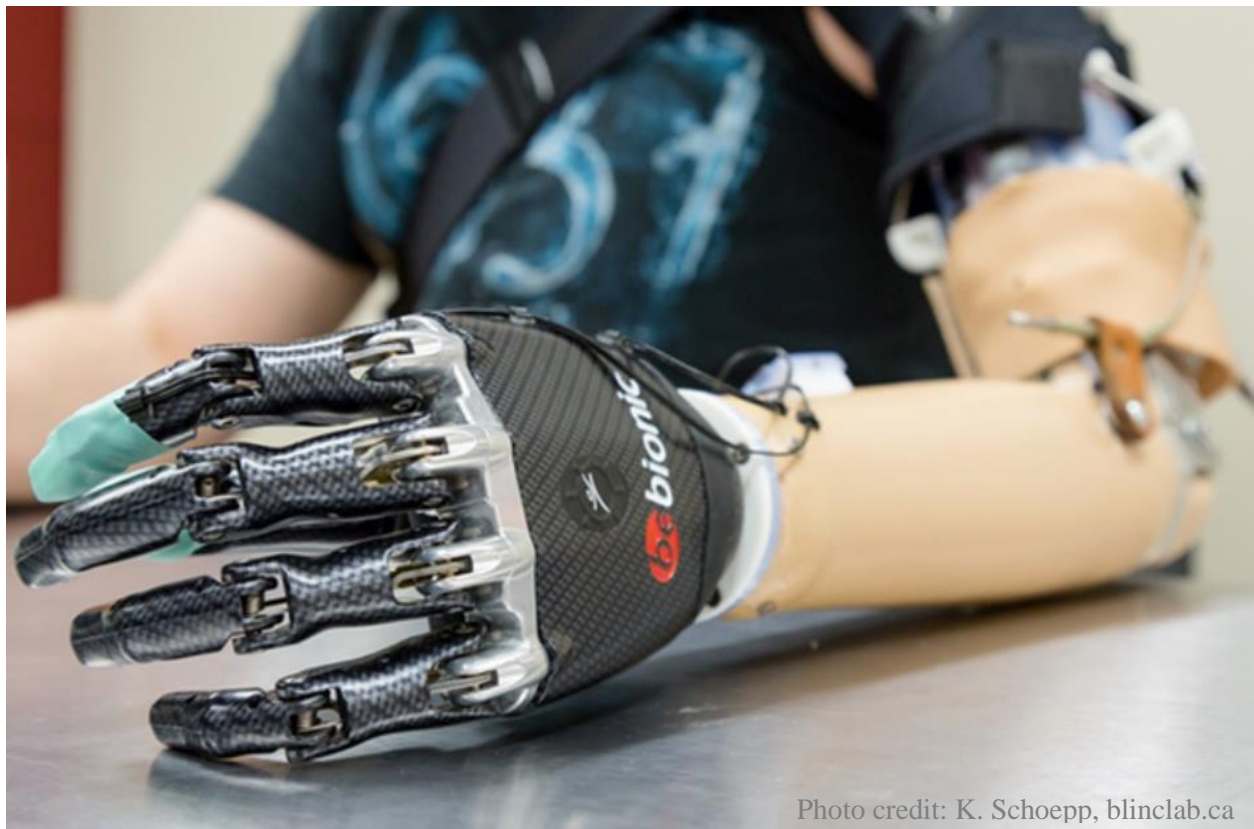


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