

# Neuro-Sensing Interfaces (BIOE 742) – Spring 2025

Instructor: Prof. E. García

## Assessment Plan

The course evaluates student progress through design logs, experiments, and collaborative reviews.

## Assignment Timeline

### Milestone 1: Signal Acquisition Warm-up

- Assigned: January 21, 2025
- Due: February 3, 2025 at 9:00 PM
- Submission: MATLAB script, two-page analysis memo.
- Points: 25

### Milestone 2: EEG Headset Calibration Experiment

- Lab Session: February 14, 2025 at 10:00 AM
- Report Due: February 21, 2025 at 11:59 PM
- Deliverables: Experiment logbook (PDF), calibration dataset (CSV), reflection journal.
- Weight: 12%

### Milestone 3: Midterm Literature Review

- Draft Due: March 3, 2025 at 5:00 PM
- Final Due: March 10, 2025 at 5:00 PM
- Deliverables: 12-page review article (IEEE format), annotated bibliography.
- Weight: 18%

### Milestone 4: Prototype Validation Study

- Participant Testing: March 24–26, 2025
- Study Report Due: April 7, 2025 at 6:00 PM
- Deliverables: Validation dataset, statistical analysis notebook, executive summary slide deck.
- Weight: 20%

### Milestone 5: Final Interface Demonstration

- Demo Session: April 29, 2025 at 2:00 PM

- Final Submission Deadline: May 1, 2025 at 11:59 PM
- Deliverables: Demonstration video, final manuscript (8 pages), Git repository, user manual.
- Weight: 25%

#### **Milestone 6: Peer Evaluation Packet**

- Due: May 2, 2025 at 6:00 PM
- Deliverables: Peer review forms for two teammates, self-evaluation questionnaire.
- Weight: 8%

### **Communication**

Weekly design logs must be uploaded every Friday by 11:59 PM. Office hours Tuesday 3–5 PM.