

ECE511/PSY511 PSYCHOPHYSICS
A Joint Offering by the School of Electrical and Computer Engineering
and the Department of Psychological Sciences
Purdue University
Fall 2019

Topic: Project Proposal

Part I. Brainstorm Team Project Ideas (by 3 pm on 10/10)

Individually or with your classmates, brainstorm a few ideas for team projects, and finalize one or two ideas that you like best. By the lecture on Oct. 10, be prepared to present the following about your ideas:

- What is the perception problem that you wish to solve?
- What psychophysical method do you plan to use to address the problem?
- Why is the chosen method appropriate?
- What is the expected results and why?

The idea(s) can be presented by a single student or several students who have worked together to come up with the idea(s). *Powerpoint slides are optional.*

Part II. Proposal in Powerpoint Format (Due 10/31 before the lecture for all teams)

- (1) This homework requires team work. Only one Powerpoint slide deck is required per project team.
- (2) The slide deck should consist of the following:
 - Title of the project;
 - Names of students on the project team, and individual responsibilities;
 - Introduction, including
 - problem statement
 - motivation
 - objective(s)
 - Proposed methods and rationale, including
 - apparatus
 - participants
 - stimulus
 - procedure
 - experimental conditions
 - data analysis

- Expected results
- Key references, and brief discussion of how they inform the proposed project.

Part III. Oral Presentation (on 10/31)

During the lecture, each team will give a 12 minute Powerpoint presentation of their project, followed by a 3 minute discussion period. *Please practice the presentation before the lecture* to make sure that it can be delivered within 12 minutes, but not much shorter than 12 minutes. The 12-min time limit will be strictly enforced (i.e., you have to stop once the time is up).

Each member of the team **must** present a part of the proposal. You must use the submitted slide deck for your presentations. All members are expected to be able to answer any questions related to the project. It is understood that some of the proposed methods might change as the project progresses, and that's okay.

Grading

Your proposal grade will be based on the slide deck (40%), oral presentation (50%) and class participation (10%). Identical grades will be given to each member of the team based on the quality of the slide deck. Grades on oral presentation will be based on the quality of the presentation and each student's ability to answer questions satisfactorily. Grades on participation will be based on each student's involvement during other team's presentations, including questions, comments and suggestions.