

ECE 301 Project Proposal Guide

If you choose to do Project 23 or 24, you need only to write one sentence in your proposal: “I plan to complete project #.” Replace “#” by 23 or 24 based on your choice.

Below are instructions for preparing a project proposal if you plan to complete a project other than projects 23 and 24. Your goal here will be to decide on an initial direction for the project. To demonstrate to us that you have some idea what you’ll work on, please submit a one-page, single-space report. The proposal should contain the information below. For your convenience, we have created an example proposal Word file. Please note that the content in that make believe proposal is fictitious.

1. Include the proposed title of the project.
2. Include your name or the names of students in your group. If you prefer to work in a group, please explain why you prefer to do so, and we will approve on a case by case basis. If we do not approve your group proposal, you will have to complete the project individually.
3. In the first paragraph, outline what you want to work on, and motivate this topic. For example, why you’re interested in it. Make sure to discuss:
 - What’s the general problem that will be tackled.
 - Briefly mention which ECE 301 tools will you use. This will help us see that this is truly a technical project and not just “measuring the coffee drinking habits of energetic high school students.”
 - If applicable, what datasets might be available for you to work on. Do you collect yourself or download it online?
4. In the second paragraph, provide a brief literature review demonstrating that you’ve at least “done your homework” and are aware of 1–2 papers and possibly some more online resources about the area of interest to you, and especially tools the you expect to use.
5. In the third paragraph, explain what you want to actually do to solve the problem in terms of your technical approach. Highlight in what ways the project constitutes either something interesting or why the work done in the project is potentially important.
6. Add references.

(This project proposal guide was adapted from a version written by Prof. Dror Baron.)