

ENSF 609/610 – Team Design Project in Software Engineering I & II

Department of Electrical and Software Engineering

General Guidelines for Project Proposal

Due: Friday, January 21st, 2022

(5 % of the Final Grade)

Students must consult with their supervisor to complete the project proposals before the above due date.

Proposal Length

The proposal must be at least 1 page, and no longer than 3 pages of single-spaced 11-point font.

Proposal Content

The content of the proposals varies depending on the nature of the project. However, including the following sections is highly encouraged:

- a) **Introduction** – Briefly explaining the background of the project. This section is particularly useful for more theoretical projects.
- b) **Objectives and Motivation** – Briefly list the main goals of the project. This section should clearly state the problem statement and address the purpose and usefulness of the project.
- c) **General Scope of the Project** – If you work on an existing project, discuss the project as a whole and, briefly describe the part you will be contributing to. If you are starting a new project, you can describe the scope you wish to complete this semester. If applicable to your project, a conceptual diagram of the system which highlights the scope for this semester can be very illustrative.
Please note: The scope can change as long as your supervisor agrees. Please meet regularly with your supervisor to ensure you are on the same page.
- d) **Proposed Methodology and Approach** – Briefly discuss the methodologies, algorithms, or technologies you plan to use to complete this project.
- e) **Main Challenges and Proposed Solutions** – List the main challenges and bottlenecks you foresee in doing this project and briefly discuss how you plan to tackle them. You don't have to have all the answers now, but you must demonstrate that you have carefully considered the problem. This section is very important as you can list the challenges and your solutions as "your contributions" at the end of the project.
- f) **Project Plan and Timeline** – Briefly discuss your project plan and your timeline. You must incorporate the course deadlines in your plan. Please ensure your timelines are realistic and try to leave yourself plenty of time to meet with your supervisor.