

Course Project Overview

The project is worth 25% of the final grade. Students may choose to complete the project individually or in groups of two. You are required to submit the corresponding documents electronically using UMLearn. Only pdf files will be accepted.

The purpose of the course project is for students to select and explore a topic in graph drawing, to study a current research problem in that topic, to make a new contribution on that topic, and to present the results, in both a written report and a class presentation.

The nature of the project can vary; examples include:

- writing a survey paper on a current topic in graph drawing,
- writing code to implement and compare the performance of algorithms for solving a problem in graph drawing, or
- exploring possible solutions to an open problem on a given topic in graph drawing.

The components of the project include:

1. a written preliminary project proposal
 - 1–3 pages
 - due September 29
 - Describe the research topic you have selected.
 - Briefly motivate your topic and mention recent significant related results and corresponding publications.
 - Describe your proposed project.
 - Include a brief list of milestones and dates by which you plan to complete these.
2. a final written report
 - 8–12 pages
 - due December 8
 - Your report should be formatted like a published research paper, including an abstract, an introduction that motivates your work and includes a clear overview of your project, a section describing related work, a detailed description of the results of your project, a conclusion which may include a discussion of possible future research directions in which the project could be extended, and a bibliography.
3. a class presentation
 - 10–15 minutes
 - in class on November 24–December 8

- Provide an overview of your project for the class. You may use a laptop for your presentation if you choose.

Academic Integrity. All sources must be cited and documented properly. Please speak with Steph Durocher if you have any questions regarding appropriate use of reference and research publications.