# CptS 322 Software Engineering Principles I

## Spring 2023

### Homework 2

(Due February 21, 2023 on Canvas)

**1. (10 points)** For each of the following software projects, what you think would be the best process model for managing the development process? Justify your answer for each project as well.

* A system to control anti-lock braking in a car
* A virtual reality system to support software maintenance
* A university accounting system that replaces an existing system
* An interactive travel planning system that helps users plan journeys with the lowest environmental impact.

**2. (10 points)** Provide three examples of software projects that would be amenable to the waterfall model. Be specific.

**3. (10 points)** Provide three examples of software projects that would be amenable to the prototyping model. Be specific.

**4. (10 points)** Spiral model and incremental model are two software process models. Explain how these two models are different and related.

\*Note: submit your solution as a single PDF[[1]](#footnote-1).

1. For instance, you may do so by creating a Word document, copy the questions from here, write your answers, and then save the finished document as PDF. [↑](#footnote-ref-1)