# CptS 322 Software Engineering Principles I

## Spring 2023

### Homework 1

(Due January 31, 2023 on Canvas)

**1. (10 points)** Umbrella activities occur throughout the software process. Do you think they are applied evenly across the process, or are some concentrated in one or more framework activities?

**2. (10 points)** When we say that framework activities are applicable to all projects, does this mean that the same work tasks are applied for all projects, regardless of size and complexity? Please explain.

**3. (10 points)** what is the major difference between software (which is the resulting product of software engineering) and the product of other engineering disciplines? Why is software different as so?

**4. (10 points)** Fill out the following table to document the problems you encountered, and the web searches you used for answering the above two questions. Fill out the four columns shown below. List at least 5 search phrases that you have used for this homework. Give a simple yes/no in the fourth column to indicate whether the search phrase led you to helpful results. If you have not encountered any problems or used any web searches, then you may just answer so.

The following is an example for your reference.

|  |  |  |  |
| --- | --- | --- | --- |
| **Question/Issue You Needed to Resolve** | **Search Engine or Site Used** | **Search Query Used** | **Were Results Helpful? (Yes/No)** |
| Need to understand what DataGridView events can be responded to | Google.com | DataGridView Events | Yes |
| Need to figure out how to obtain cell value | Bing.com | Get text value from cell in C# | No |
| Need to know how to draw an architecture context diagram | Stackoverflow.com | Architecture context diagram in Visio | No |
| Want to differentiate between sequence diagram and communication diagram | http://www.uml-diagrams.org/ | sequence diagram vs communication diagram | Yes |
| Need to understand black-box testing | Yahoo.com | What is black-box testing | Yes |