Context Engineering for Learning with AI

In the following section, the elements of Context/Prompt Engineering as discussed by Dani Dilkes in the e-book Domains of AI Awareness for Education are elaborated on. Use these tips to practice changing your prompts in the space below!

- Be Specific – use action verbs from the box below to change your prompt and give it more context. Be sure that your prompt is clear on:
  - Why you're asking
  - What course you're asking about (or topic)
  - What you hope to accomplish by asking (if different/bigger than why)
  - Length, format, and style of response you want

Define	Summarize	Determine	Organize	Argue
List	Compare	Present	Contrast	Defend
Identify	Report	Interpret	Connect	Review
Design	Construct	Develop	Build	Formulate

Example: Instead of "Object-Oriented Programming Principles" consider "Explain what object-oriented programming principles would be important in a first-year university computer science course, to ensure academic success in the class. Make your response point form and highlight any key ideas that will connect to other topics".

- Give qualifiers – use your course learning objectives to determine the level of detail you need in your response and be clear on your intent

  From above: "Explain what object-oriented programming principles would be important in a first-year university computer science course, to ensure academic success in the class. Make your response point form and highlight any key ideas that will connect to other topics linked data structures, inheritance, exceptions and debugging."

- Use personas – tell the AI to respond or question you form specific roles. Make the exercise of using GenAI more active, by giving the AI a prompt to ask questions in the persona of: professor, teaching assistant, classmate, lay person, etc.

  Example: "Pretend you are a classmate in my university computer science course. Ask me questions to defend, connect, or interpret opinions on object-oriented programming principles, linked data structures, and inheritance, to help me prepare for my test in two weeks. Give me hints on incorrect answers to a maximum of 3 attempts."

- Provide Models and Examples –Give the AI examples of the types of information or questions you would like it to generate

In the box below, write your initial prompt that you want to ask:

Use the following box to generate a new prompt, based on the advice above!