

Artificial Intelligence-based tool use:

Generative AI tools can be powerful aids to completing a variety of work. You will undoubtedly use them in your careers. They will likely become the de-facto standard for building computer applications in the future. To start you need to understand the fundamental concepts in programming logic so that you will be able to read and understand the programs produced by these tools.

Your Responsibilities with AI Generated Code (at school or work):

- You are responsible for knowing when and if generative AI is applicable, appropriate, and acceptable. Some classes or employers may forbid or limit its use.
- You must learn to specify programs clearly for generative AI, so the functionality you want is the functionality you get.
- You must be able to understand programs generated by AI. If you can't read it, you don't know what it does.
- You must be able to thoroughly test all programs to determine if they do what you intend. This includes providing a safe "sandbox" environment for testing which insulates potentially harmful code from live data.
- You must be able to modify code generated by AI to fix bugs or add and remove functionality. The program should not only do what you want it to correctly, but also not do what you don't want.
- You are responsible for the efficiency and security of the programs you specify. AI generators may not always choose the best or safest algorithms.
- You are responsible for adhering to required coding standards which includes naming conventions and formatting among other things.
- You must be able to use your own understanding as well as test results, and modifications to update specifications and generate new versions of your programs.
- You must protect private or proprietary information. Unless you have reason to believe otherwise, assume any information you input is exposed to the public.
- You must document the development process entirely, including all the following:
 - Which specific AI tools were used for generation, and which version.
 - Which parts of your product are AI generated, which are AI generated and human modified, and which are entirely human written.
 - Initial specifications and prompts.
 - Updated specifications and prompts.
 - Code modifications.
 - Comments in ALL code, including anything generated.
 - Testing procedures.
 - Test results.
- You are responsible for the programs you create. If you generate a program using AI tools which contains bugs and errors, they are YOUR bugs and errors. If the program infringes a copyright or patent, that is your violation. You are responsible for any consequences that follow.