# **CS 405 8-1 Journal: Portfolio Reflection**

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# **CS-405 Secure Coding**

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The Secure Coding class taught me a lot about coding with security in mind to avoid vulnerabilities. Creating a security policy that included ten different coding standards based on the ten different principles was interesting. I was able to review and find different standards and provide code examples that show how each standard should be implemented. Implementing these standards is a great way to keep security in mind and not leave it to the end of the project which can cause delays and issues. Waiting until the end is a practice that was common but now should not be done since security being implemented throughout the project makes the project more efficient. There are risks and cost benefits for each standard as some have higher priority and are more likely to be exploited. These standards that are more likely and have higher priority often cause more damage and cost more to fix. So, implementing security in coding to prevent these will make these less risky and cost less because it is less likely to occur. Implementing a practice of zero trust is important because it will shift focus of security to individual users and devices. Zero trust means a little more work for the user because they will have to authenticate themselves and their devices more often, but this will be more secure and should make it less likely for attacks to occur and shut down systems. Using tools like cppcheck and some other IDE plugins will assist in implementing the different coding standards. This makes it a seamless transition for developers when they can just keep coding and then see when they need to implement a coding standard when they are alerted to it by the tool. Of course, there should be the policy shared to individuals to review and also training to make sure everyone is ready and aware of the standards. Security is so important for many companies and projects because of all the data being used. There should be no excuse for not being security aware in this day and age and this class is a great start for me to make sure I am always thinking about security in future projects and work.