



# Coding Theory and the Intelligence Community:

*Dive in!*

September 4, 2024  
310 Kelly Hall

10:30 - 11:15

## Introduction to Coding Theory

*Gen Maalouf - National Security Agency (NSA)*

**Abstract:** Imagine you're sending a message to your partner in crime, but you want to make sure it's not readable to spectators and if there's an error in your message, your partner can reasonably correct the message to your intended one. Coding theory studies methods of encoding and decoding messages, along with error correction! In this talk we will go over different types of codes, such as Linear Codes and Reed Solomon Codes, error correction, and their applications.

11:15 - 12:00

## Jobs & Internship Opportunities Panel

Meet representatives from NSA and National Institute of Standards and Technology (NIST). Learn more about positions and internships and how to make your application stand out.

**Faculty and students are welcome!**

If accommodations are needed, please contact Hope House at [hopeh5@vt.edu](mailto:hopeh5@vt.edu) or (540) 231-6537 during regular business hours at least five business days before the event.



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