

TM



Community College

Math Society at LaGuardia
Community College invites
you for the following talk:

Wednesday, April 2

2:15 - 3:30pm, E258

Cryptography: The Science of Keeping Secrets

Dr. Glenn Henshaw

ABSTRACT

It is a remarkable fact that, with cryptography, two people can share secrets with one another while being watched and listened to the entire time!

The science of cryptography is at the core of many of the applications of the Internet. From on-line shopping and banking to vast social networks like Facebook and twitter, underneath it all lies a means of secure communication made possible by cryptography.

This talk will provide a brief introduction to the subject by way of the Diffie–Hellman key exchange. On the way we will explore modular arithmetic, the discrete log problem, and other useful facts from number theory. We will be using SAGE, a mathematics software package based on the python programming language, to generate realistic examples.