Cryptography is the study and practice of mathematical techniques related to various aspects of information security, including:

- Confidentiality — keeping information away for all but those authorized to have it;
- Data Integrity — ensuring that information has not been altered by unauthorized or unknown means;
- Authentication — corroborating the identity of an entity (for example, a person, a computer, or a credit card), or verifying the source of information.

This talk will explore fundamental concepts from Number Theory and show how these ideas are applied to Cryptography.