



# CSCI 595(01B) BLOCKCHAIN TECHNOLOGIES

## Course Overview

This course provides an introduction to the study of cryptocurrency and blockchain technologies with the focus of bitcoin. Topics included are: basic concepts of cryptography (hashing, digital signatures, public keys), decentralization (in bitcoin), mechanics and technical details of bitcoin, mining, and anonymity.

## Who Should Take This Course?

- Anyone curious about how digital currencies and blockchain technology work.
- Beginners looking for an easy-to-understand the basics of blockchain with the introduction to cryptocurrency.
- Developers interested in building blockchain applications.

## Course Details:

- Instructor: Dr. Jinoh Kim
- Class Meeting: Monday, 12:30 PM-1:45 PM
- Location: AGET Room 255
- Required Skills: Basic Programming knowledge Python (or Java), computer systems and operating systems.

## Learning Outcomes

- Understand the basic concepts in cryptography including hashing, digital signatures, and public encryption
- State decentralized blockchain technologies and consensus mechanisms
- Understand the mechanics of cryptocurrency and mining concepts
- State the security and privacy topics in blockchain technologies including security threats and vulnerabilities and protecting against attacks

## For more information:

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