



Byte Academy Blockchain Syllabus

Format: Part-Time, 16 weeks, 2x week , 6:00 pm – 9:00 pm

Prerequisites: Some programming experience (at least one year suggested). Potential students will need to pass a brief programming assessment for admissions.

We are taking our FinTech curriculum to another level with a course that focuses on the blockchain, a tool that will revolutionize all industries, not just finance. Upon graduation students will have developed an extensive comprehension of the blockchain and will have created a final, capstone project using the technology. We will focus on applications of the blockchain wanted by employers throughout the 16 week program. Curriculum is in collaboration with leading industry experts and blockchain company founders who will also guest lecture. Topics include:

Intro to Blockchain and Cryptocurrency

- Internet of money
- Public vs. private blockchain technology
- Cryptography: proof of work, consensus verification
- Data blocks
- Bitcoin and valuation

Ethereum and Blockchain Platforms

Clearing and settlement

Your First Wallet and Intro to Blockchain API

- Open source tools
- Algorithms

Assets and Tokenization and the Value of the Blockchain

- Credits versus tokens
- Community currency

Smart Contracts

- Distributed ledger technology
- Regulation and legal frameworks
- Consensus Protocols and Byzantine Fault Tolerance (BFT)
- Scalability and distributed ledgers, ethereum

Regulatory Environment

Use Cases

- Finance
- Security
- Social Good
- Other alternative uses

Your First Currency

Security: Attacks and Trustless Networks

- DAO

Blockchain Beyond

Final Project and Demo Day

