



Checklist

Week 1 (Introduction to blockchain)

Lectures

- ☐ Introduction to Blockchain Technology: <https://www.youtube.com/watch?v=...>
- ☐ Introduction to Smart Contracts: <https://www.youtube.com/watch?v=...>

Resources:

- ☐ [Slides: Introduction to Blockchain Technology](#)
- ☐ [Reading: Bitcoin Whitepaper](#)
- ☐ [Reading: Ethereum Whitepaper](#)
- ☐ [Slides: Introduction to Smart Contracts](#)
- ☐ [Reading: Introduction to Smart Contracts \(Solidity Documentation\)](#)
- ☐ [Reading: Solidity by Example](#)
- ☐ [Reading: Comparison of the four major EVM programming languages and Yul.](#)
- ☐ [Reading: Send 1 DAI](#)

Practical tasks

- ☐ <https://ctf6.statemind.io/level/0xD8EF1cE7e2aDBc413979e3B>
- ☐ <https://ctf6.statemind.io/level/0x9F94f2BC44545CAA7935a4>

Week 2 (DeFi primitives 1)

Lectures

- ☐ Introduction and Overview of DeFi: <https://youtu.be/gX3mc83>
- ☐ DEX: <https://youtu.be/pRO5YW5qb-k>

Resources:

- ☐ [Slides: Introduction and Overview of DeFi](#)
- ☐ [Reading: CeFi vs. DeFi](#)
- ☐ [Reading: DeFi SoK](#)
- ☐ [Reading: Schär, F., 2021](#)
- ☐ [Slides: DEX](#)
- ☐ [Slides: \(Guest speaker Dan Robinson \(Paradigm\) \[Uniswap cas](#)
- ☐ [Reading: StableSwap](#)
- ☐ [Reading: DEX with AMM Protocols Hardcore Math :\)](#)
- ☐ [Reading: Uniswap v3 Core Whitepaper](#)
- ☐ [Watching: Impermanent Loss](#)
- ☐ [Reading: Impermanent Loss](#)

Practical tasks

- ☐ <https://ctf6.statemind.io/level/0xD03a35651b395337b0a635D>
- ☐ <https://ctf6.statemind.io/level/0x5a5aA7fBcA90Df200123d92E>

Week 3 (DeFi primitives 2)

Lectures

- ☐ Decentralized Lending: <https://www.youtube.com/watch?v=dK>
- ☐ Stablecoins: <https://www.youtube.com/playlist?list=PLS01nW3>
- ☐ Oracles: <https://youtu.be/vFcW18ZpPZ4>

Resources

- ☐ Slides: [Decentralized Lending](#)
- ☐ Reading: [A Study of DeFi Liquidations](#)
- ☐ Reading: [Attacking DeFi with Flash Loans](#)
- ☐ Reading: [DeFi Protocols for Loanable Funds](#)
- ☐ Reading: [Liquidations](#)
- ☐ Reading: [The Decentralized Financial Crisis](#)
- ☐ Slides: [Oracles](#)
- ☐ Slides: [Stablecoins I](#)
- ☐ Reading: [\(In\)Stability for the Blockchain](#)
- ☐ Reading: [Stablecoins 2.0](#)
- ☐ Reading: [Search for Stability in Crypto Assets](#)
- ☐ Reading: [Chainlink 2.0](#)

Practical tasks

- ☐ <https://ctf6.statemind.io/level/0x114EDc927783ba409cC9b6e>
- ☐ Hmm, if you solved all tasks you can always try to fight harder

Week 4 (DeFi security)

Lectures

- ☐ DeFi Security I: <https://youtu.be/pJKy5HWuFK8>
- ☐ DeFi Security II: <https://youtu.be/GIHa2GQJY1k>

- ☐ Bridges: Watching: Types of bridge
- ☐ Layer 2: Watching: Layer 2 Scaling

Resources

- ☐ Slides: Practical Smart Contract Security
- ☐ Slides: Smart Contract Security
- ☐ Reading: Flash Boys
- ☐ Reading: Stack Too Deep
- ☐ Reading: Bridges
- ☐ Reading: Based Rollups
- ☐ Reading: Based Rollups and DVT
- ☐ Reading: Detecting and Quantifying Wash Trading (optional)
- ☐ Reading: High Frequency Trading (optional)
- ☐ Reading: Profit-Generating Transactions (optional)
- ☐ Reading: Quantifying Blockchain Abstractable Value (optional)

Practical tasks

- ☐ <https://ctf6.statemind.io/level/0xf8C9Fb693d7c318C19ae00A>
- ☐ <https://ctf6.statemind.io/level/0x0f0EEb4D9eE54759Ce92c93>
- ☐ <https://ctf6.statemind.io/level/0xA226349Aa75dc2DAD7821B>
- ☐ <https://ctf6.statemind.io/level/0x4E13F02D4ABC166C5bF906>
- ☐ <https://ctf6.statemind.io/level/0x4634cb56c111ed577c40B212>