

## 13 NCyTE Cybersecurity Concept Lessons

Individual educational units, supplemental materials and activities developed by high school instructors experienced at teaching Advanced Placement® (AP) Computer Science Principles

- Easy way to integrate cybersecurity concepts into AP CSP or other computer science or IT courses
- Roadmap shows how each lesson's content maps to AP CSP Big Ideas and Learning Objectives
- All programming is in JavaScript—Python version will be released in Fall 2021
- Each lesson contains a presentation, activities, and an overview document




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**Print version:** download from [www.ncyte.net/c5-lessons](http://www.ncyte.net/c5-lessons)

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**Web-based curriculum:** accessible at [www.codehs.com/course/ncyte/overview](http://www.codehs.com/course/ncyte/overview)

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### Lesson Topics

- Caesar Cipher
- The CIA Triad
- CyberEthics
- Data Structures
- Identity, Authentication and Authorization
- Input Validation and Conditionals
- Iterative Process
- Secure Networking
- Personal Data Vulnerabilities
- Risk
- Steganography
- Symmetric and Public Key Encryption
- Vigenère Cipher



**CodeHS**



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