

AP Computer Science Principles: Cybersecurity

Course Links

Introduction to Programming

- No 3rd party links are used in this module.

Practice PT: Pair-Programming Paint!

- No 3rd party links are used in this module.

Programming with JavaScript

- <https://www.youtube.com/watch?v=x1lXh3BoeQg>
- <https://www.youtube.com/watch?v=DOyHCqy7vE8>

JavaScript Control Structures

- No 3rd party links are used in this module.

Functions and Parameters

- <https://www.youtube.com/watch?v=-0MmWEYR2a8>

Practice PT: Tell a Story

- No 3rd party links are used in this module.

Basic Data Structures

- <https://6a13c5b2fc59e0f5cc2d-504d68e748ee944d3fccba00fd5e2fd4.ssl.cf1.rackcdn.com/Predpreygrass/index.html>
- <http://ccl.northwestern.edu/netlogo/models/WolfSheepPredation>
- <https://youtu.be/yCVNtlBIQo0>

Digital Information

- <https://www.youtube.com/watch?v=-R4SNrdLSEI>

Practice PT: Steganography - Color Channels

- No 3rd party links are used in this module.

Encryption

- <https://www.101computing.net/cipher-wheel.html>
- <https://computerscience.chemeketa.edu/courses/cs160/nine-algorithms/diffiehellman/sha-redsecretcolorapp/>
- <https://www.kerryveenstra.com/cryptosystem.html>

Practice PT: Create an Image Filter!

- No 3rd party links are used in this module.

The Internet

- <https://www.youtube.com/watch?v=gNh0OCIchB4>
- www.example.com/homepage.html
- <https://youtu.be/rdVPfIECed8>
- <https://www.betterbuys.com/estimating-password-cracking-times/>
- <https://youtu.be/jTlql6zqArI>
- <https://www.youtube.com/watch?v=c2pUm-JRHw0>
- <https://www.youtube.com/watch?v=qeit9A7PscI>
- <https://cotera.co/blog/from-frenzy-to-fad-why-pokemon-go-couldnt-keep-em-all>
- <https://sanfrancisco.cbslocal.com/2016/07/12/pokemon-go-craze-unintended-consequences/>
- <http://www.citationmachine.net/>
- https://images.google.com/?gws_rd=ssl

Cybersecurity

- <https://youtu.be/CmSU-RdySnw>
- <https://phishingquiz.withgoogle.com/>
- <https://www.sonicwall.com/phishing-iq-test>
- <https://www.consumer.gov/articles/1015-avoiding-identity-theft>
- <https://youtu.be/3002lvy5bvww>
- <https://haveibeenpwned.com/>

- <https://www.informationisbeautiful.net/visualizations/worlds-biggest-data-breaches-hacks/>
- <https://owasp.org/www-project-top-ten/>
- <https://www.us-cert.gov/ncas/tips/ST05-003>
- https://en.wikipedia.org/wiki/List_of_the_most_common_passwords
- <https://www.betterbuys.com/estimating-password-cracking-times/>
- <https://youtu.be/jTlgl6zqArI>
- <https://nvd.nist.gov/products/cpe/search>
- <https://youtu.be/l-y8c-CAwi8>
- <https://youtu.be/c7KHBR-xSlc>
- <https://youtu.be/KtJoumB78bl>
- <https://youtu.be/c7KHBR-xSlc>
- <https://www.youtube.com/shorts/dGU6dg27jCQ?feature=share>

Project: Cyber Ethics

- <https://www.govtech.com/blogs/lohrmann-on-cybersecurity/ransomware-to-blame-or-not-to-blame.html>
- <https://spectrum.ieee.org/telecom/security/the-real-story-of-stuxnet>
- https://www.researchgate.net/publication/330028734_The_Advantages_and_Disadvantages_of_the_Blockchain_Technology
- <https://www.teenvogue.com/story/how-the-government-can-get-your-personal-information>
- <https://www.securitymagazine.com/articles/89663-critical-infrastructure-under-persistent-threat>

Data

- https://youtu.be/hX9KW3_ZPLY
- <https://public.tableau.com/app/discover>
- <https://waymo.com/tech/>
- <https://www.spokeo.com/Firstname-Lastname>
- https://youtu.be/cgRpa17_TPI
- <https://www.pic2map.com/>
- https://video.link/w/lhrEI9be_wl
- <https://youtu.be/8xn1rO1oQmk>

Project: Present a Data-Driven Insight

- <https://apcentral.collegeboard.org/media/pdf/ap-computer-science-principles-course-and-exam-description.pdf>

Project: Present a Data-Driven Insight

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Project: The Impacts of Computing

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Create Performance Task

- <https://apcentral.collegeboard.org/media/pdf/ap-csp-student-task-directions.pdf>
- <https://apclassroom.collegeboard.org/103/home>

Creative Development

- <https://youtu.be/iW4dtHtCAYc>
- https://youtu.be/BpSYxv_mOxw
- <https://youtu.be/Zq710AKC1gg>
- <https://dschool.stanford.edu/resources/design-thinking-bootleg>
- <http://creativecommons.org/licenses/by-nc-sa/3.0/>
- https://www.youtube.com/watch?v=3nllN183_2I
- <https://youtu.be/LKaCtvvhbcg>