



AP® Cybersecurity

Course at a Glance

Plan

The Course at a Glance provides a useful visual organization of the AP Cybersecurity components, including:

- Sequence of units, along with suggested pacing. Please note, pacing is based on 45-minute class periods, meeting five days each week for a full academic year.
- Progression of topics within each unit.

Teach

COURSE SKILLS

- 1 Analyze Risk
- 2 Mitigate Risk
- 3 Detect Attacks
- 4 Collaborate

Assess

At the end of each topic and unit, assess students' understanding of the content and skills and provide them with actionable feedback.

AP Exam Weighting

Approximate weighting for the multiple-choice section on the Exam:

- Skill Category 1: 25-40%
- Skill Category 2: 25-40%
- Skill Category 3: 25-40%

UNIT 1

Introduction to Security

~10 CLASS PERIODS

Skill	Topic
1	1.1 Understanding Social Engineering
1 2	1.2 Suspicious Website Logins
1 2	1.3 Best Practices for Public Networks
1 2	1.4 AI-Based Cybersecurity Attacks
2 3	1.5 Leveraging AI in Cyber Defense

UNIT 2

Securing Spaces

~21 CLASS PERIODS

Skill	Topic
1 2	2.1 Cyber Foundations
1	2.2 Physical Vulnerabilities and Attacks
2	2.3 Protecting Physical Spaces
3	2.4 Detecting Physical Attacks

UNIT 3

Securing Networks

~26 CLASS PERIODS

Skill	Topic
1	3.1 Network Vulnerabilities and Attacks
2	3.2 Protecting Networks: Managerial Controls and Wireless Security
2	3.3 Protecting Networks: Segmentation
2	3.4 Protecting Networks: Firewalls
3	3.5 Detecting Network Attacks

UNIT 4

Securing Devices

~23 CLASS PERIODS

Skill	Topic
1	4.1 Device Vulnerabilities and Attacks
2	4.2 Authentication
2	4.3 Protecting Devices
3	4.4 Detecting Attacks on Devices

UNIT 5

Securing Applications and Data

~30 CLASS PERIODS

Skill	Topic
1	5.1 Application and Data Vulnerabilities and Attacks
2	5.2 Protecting Applications and Data: Managerial Controls and Access Controls
2	5.3 Protecting Stored Data with Cryptography
2	5.4 Asymmetric Cryptography
2	5.5 Protecting Applications
3	5.6 Detecting Attacks on Data and Applications