

# Cyber Security – Capture the Flag Competition

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### Contest Overview and Components

Teams and individuals will participate in a Capture the Flag competition where they will solve challenges and score points by conquering countries. Challenges will be simple to complex in areas such as cryptography, password cracking, and image meta data analysis. Students will learn fundamentals of cryptography, password cracking, and image meta data analysis that can be used in investigations and ethical hacking contexts.

Teams will be provided background information, techniques, and resources that they will utilize to solve challenges. No prior knowledge in any of the subjects or technologies is expected or required. Teams will be able to “buy” hints to help solve challenges during the competition. The team that captures the most countries/scores the most points wins the competition.



### Team Composition

Teams of two people or individual.

### Skills

The only skill that is required is a desire to learn.

### Scoring

Participants will earn points as they solve challenges and conquer countries within an interactive, timed CTF system. Teams that conquer countries first earn bonus points. Hints can be purchased using earned points to help solve more complex challenges.

### Schedule

Approximately one hour of instruction and 2.5 hours of competition.

### Resources

The CTF System requires Internet access by all participants. The Chrome or Firefox web browser required.