Cyber Security Fundamentals
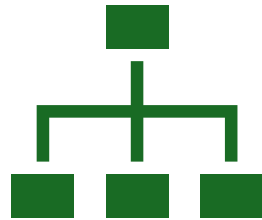
With slide design by Microsoft's AI.
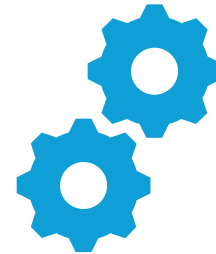
Security Controls

Physical   Administrative   Technical

Securing Glatfelter Hall

- 24 Hour Access
- Classrooms
- Computer Labs
- Lounges
- Offices
- Bell Tower

Securing Glatfelter: Tools
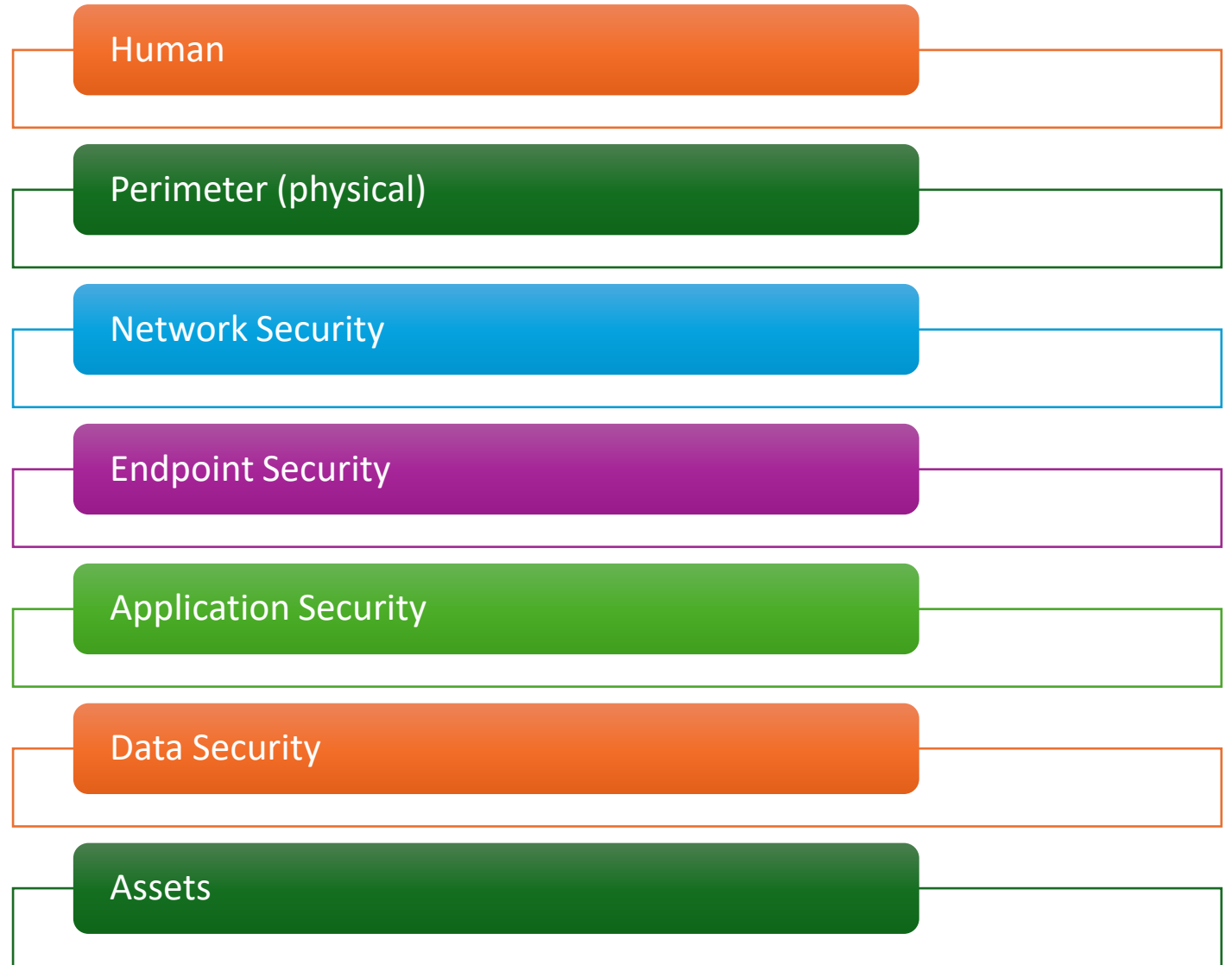
Physical

- Door
- Locks/keys
- Lights/power

Administrative

- Access policy
- Campus Safety
- Fire drills
- Entry logs
- User policies
- Password policy

Technical

- Cameras
- Alarms
- Passwords
- Cable locks
- Key entry (RFID)

Layers of Security

- Human
- Perimeter (physical)
- Network Security
- Endpoint Security
- Application Security
- Data Security
- Assets

CIA Triad

Confidentiality   CIA   Integrity

Availability

C, I, or A?

- Passwords C,I
- Web sites A
- Encryption C,I
- Doors A
- Device Registration C
- Network Firewalls C,I
- Anti-phishing training I

- Intrusion Detection C
- Keys C,I
- Backups I,A
- Digital Signatures I
- Email A
- Logs C, I

CIA Tradeoffs

Confidentiality vs. Availability

Integrity vs. Availability

Confidentiality vs. Integrity