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Mobile Device Security



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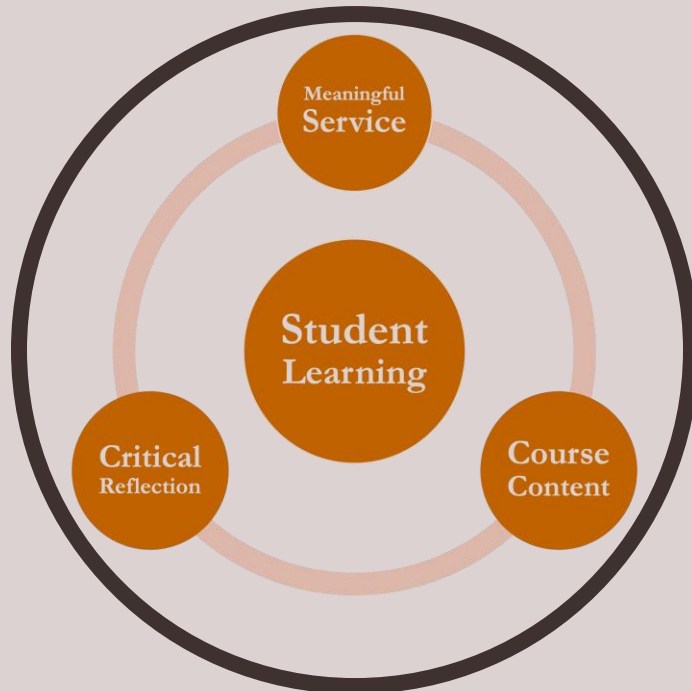
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Introduction to Service-Learning

- Service-learning engages students in direct service, reflection, and integration as an essential part of the course learning objectives.
- Working in data analytics, technology is our primary resource.
- Any interruptions in our process would cause several issues so it is important to maintain secure devices through best practices.



Introduction to Mobile Device Security



Mobile device security includes the measures designed to protect sensitive information stored on and transmitted by laptops, smartphones, tablets, and other portable devices.



The goal is to keep unauthorized users from accessing the network.

Mobile Device Security Importance

As mobile devices become more popular in the workplace, distinct challenges to network security are present.

Potential threats to mobile devices:

- Malicious mobile applications
- Data leaks
- Scams from phishing
- Spyware
- Unsecure Wi-Fi networks
- Insider threats, intentional and unintentional

Benefits of Mobile Device Security

Regulatory
compliance

Enforcement of
security policy

Incorporation of
BYOD – bring your
own device

Device updates
controlled remotely

Control of
applications

Device registration
automation

Automated data
backup

Protects from
malicious attacks from
being able to access
sensitive information
from the organization

Mobile Device Security Best Practices

Establish, share and enforce clear policies and procedures

Password protection and training

Incorporate the use of biometrics

Avoid public Wi-Fi

Beware of external applications

Mobile device encryption

Types of Mobile Device Security

Email Security

Endpoint protection

VPN – virtual private network

Secure web gateway

CASB - Cloud access security broker

Maintaining Security

Do's

- Update mobile device software and applications automatically or when available
- Use strong and complex pins and passwords
- Consider the use of biometric authentication
- Protect devices with cases that help to drown microphones and block audio in the room

Don'ts

- Do not connect to public, and untrusted, Wi-Fi networks
- Do not install several unnecessary applications or enter personal data
- Do not perform work actions involving sensitive information on personal devices
- Do not jailbreak or root your mobile device

Last Thoughts/Helpful Tips

Always lock device when not in use

Don't open suspicious emails from external addresses

Always back up mobile device data

Don't download third-party applications without company approval

Always enable two-factor authentication

Don't use the same password for every account

Frequently Asked Questions



What qualifies as a mobile device?

Any small device that can process and store data. Examples include laptops, smartphones, tablets, and PDAs.



What are the company password requirements?

This depends on the company, but usually a complex mix of at least eight characters.



Can I use an encrypted USB drive to store company data?

Most storage drives are accepted, but encryption must first be verified by the company.



What if my device is stolen?

Immediately report the incident so the device can be deactivated.

References

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