

Information Tech. Security

ITSY-1342

Summer I 2019 Section 300 CRN-30783 3 Credits 06/03/2019 to 07/01/2019 Modified 05/15/2019

Meeting Times

Lab

Monday, Tuesday, Wednesday, Thursday, Friday, 3:00 PM to 3:50 PM, Student Center 241

Discussion

Monday, Tuesday, Wednesday, Thursday, Friday, 4:00 PM to 4:50 PM, Student Center 241

Contact Information

Instructor: Major Robert Carl Nelson II

Email: rnelson@blinn.edu

Office: Student Center 242

Phone: 979-209-7430

Website: <http://cit.blinn.edu> (<http://cit.blinn.edu>)

Office Hours

Tuesday, Wednesday, Thursday, 5:00 PM to 5:30 PM, Student Center 242

Schedule an appointment for best results.

Description

Instruction in security for network hardware, software, and data, including physical security; backup procedures; relevant tools; encryption; and protection from viruses.

Requisites

Prerequisites: Successful Completion of ITNW 1354 or instructor approval.

Corequisites: None

Core Curriculum Statement

This course is not a core curriculum course.

Outcomes

1. Apply National Institute of Standards and Technology (NIST) Guidelines and other best practices
2. Develop backup/recovery procedures to provide for data security

3. Use network operating system features to implement network security
4. Identify computer and network threats and vulnerabilities and methods to prevent their effects.
5. Use tools to enhance network security.
6. Use encryption techniques to protect network data.

Materials

LABSIM FOR SECURITY PRO

ISBN: 9781935080442

Availability: TestOut

Price: 184.30

Flash Drive

USB Flash thumb drive

Course Requirements

CompTIA Security+ certification exam.

Transfers to BAAS degree at SHSU.

Transfers to BAS-IT degree at UHCL

Evaluation

Criteria

Type	Weight	Notes
Exams	50	Four major exams and a comprehensive final exam each worth 10% of the course grade
Labs	40	Numerous hands-on labs
Participation	10	Daily contributions to discussion and assignments

Blinn College Policies

All policies, guidelines, and procedures in the [Blinn College Catalog \(http://catalog.blinn.edu/\)](http://catalog.blinn.edu/), [Blinn College Board Policies \(http://pol.tasb.org/Home/Index/1204\)](http://pol.tasb.org/Home/Index/1204), and the [Blinn College Administrative Regulations \(https://www.blinn.edu/administrative-regulations/\)](https://www.blinn.edu/administrative-regulations/) are applicable to this course.

[Specific information on civility, attendance, add/drop, scholastic integrity, students with disabilities, final grade appeal, alternative retailers, campus carry and proctoring arrangements and cost. \(http://www.blinn.edu/syllabus-policies/\)](http://www.blinn.edu/syllabus-policies/)

Notice of any action taken under these protocol and procedures, by Blinn College or its employees, may be delivered by hand, through the U.S. Postal Service, or electronically to the student's Blinn Buc e-mail account. Notice shall be deemed received upon actual receipt, on deposit in the U.S. Mail, or upon entering the information processing system used by Blinn College for Blinn Buc e-mail

accounts, whichever first occurs.

* Course Policies

[Student Email, Exam Review Procedures, Deadlines for Assignments and Labs, Make-up Policy, Reading and Research, Lab Hours and Decorum, Removable Hard Drives, Professional Disclaimer, and Learning Activities](#) are found [here](#).

📅 Schedule

Dates	Week 1 Meeting Details	Contact in min	HRS
Monday 03 June 2019	Orientation	155	15.5
Tuesday 04 June 2019	Attacks, Defense, Access Control	155	
Wednesday 05 June 2019	Cryptography, Monitoring, Incident Response	155	
Thursday 06 June 2019	Policies, Risk, Business Continuity, Planning	155	
Friday 07 June 2019	Social Engineering, Apps, Employees, Mobile Devices	155	
Dates	Week 2 Meeting Details	Contact in min	HRS
Monday 10 June 2019	Third Parties, Threats, Device Protection	155	15.5
Tuesday 11 June 2019	Network Protection, Environmental Controls	155	
Wednesday 12 June 2019	Recon, Spoofing, Security Appliances	155	
Thursday 13 June 2019	DMZ, Firewalls, NAT, VPN	155	
Friday 14 June 2019	Web Threat, Network Access, Wireless	155	
Dates	Week 3 Meeting Details	Contact in min	HRS
Monday 17 June 2019	Network Threats, Vulnerabilities, Applications, Switches	155	15.5
Tuesday 18 June 2019	VLANs, Routers, IDS, Vulnerability Assessment	155	
Wednesday 19 June 2019	Protocol Analyzers, Remote Access, Pen Test, SDN	155	

Thursday 20 June 2019	Malware, Passwords, Hardening and Enforcement	155	
Friday 21 June 2019	<i>Wade McCain Guest Speaker</i>	155	
Dates	Week 4 Meeting Details	Contact in min	HRS
Monday 24 June 2019	Security, Embedded Systems, Logs, Audits, Email	155	15.5
Tuesday 25 June 2019	Access Control, Web Servers and Browsers, App Dev	155	
Wednesday 26 June 2019	AD, Users & Groups, GPOs, Authentication Hardening	155	
Thursday 27 June 2019	Data, Cryptography, Encryption, PKI, Hashing	155	
Friday 28 June 2019	Data Transmit/Loss, Back-up/Restore, Cloud Storage	155	
Dates	finals	Contact in min	
Monday 01 July 2019	Comprehensive Final Exam - Totals 2 hours	100	2.0
	TOTAL CONTACT HOURS		64