IT 4990-40: Special Topics in Cybersecurity

Fall 2023 Schedule

This is an online class.

This course provides the student with a general understanding of how to install, configure, and manage Next Generation Firewalls (NGFW) for defense of enterprise security network architecture. Students will learn the configuration and management steps for setting up the security, networking, accounts, zones, and security policies of next generation firewall technologies. This course is the combination of two PaloAlto courses: Enterprise Security Management (ESM) and Enterprise Security Deployment (ESD) provided by PaloAlto Networks. Check with **Canvas** for updates and assignments.

This schedule is subject to change.

Week of	Module Readings (m=ESM course, d=ESD course	Quiz/Exam, Holidays
Aug 20	01m - Security Architecture Planning	
Aug 27	02m - Configuring and Managing Firewall Interfaces	Quiz (Mod 1m)
Sep 03	03m - Managing Firewall Administrator Accounts	Quiz (Mod 2m)
Sep 10	04m - Connecting Security Zones, Review	Quiz (Mod 3m), **EXAM 1 (Mods 1m,2m,3m)**
Sep 17	05m - Creating and Managing Security Policies	Quiz (Mod 4m)
Sep 24	06m - Creating and Managing NAT Policy Rules	Quiz (Mod 5m)
Oct 01	Review	Quiz (Mod 6m), **EXAM 2 (Ch 1m thru 6m)**
Oct 08	01d - Identify Applications	**Fall Break**
Oct 15	02d - Deploy Security Profiles	Quiz (Mod 1d)
Oct 22	03d - Configure URL Filters	Quiz (Mod 2d)
Oct 29	04d - Contain Malware with Wildfire, Review	Quiz (Mod 3d), **Exam 3 (Mods 1d, 2d, 3d)**
Nov 05	05d - Control Access with User-ID	Quiz (Mod 4d)
Nov 12	06d - Block Encrypted Traffic Threats	Quiz (Mod 5d)
Nov 19	07d - Monitor Logs and Develop Reports	Quiz (Mod 6d)
Nov 26	Review	Quiz (Mod 7d),**EXAM 4 (Mods 4d thru 7d)**
Dec 03	**Capstone Practical**	
Dec 10	Final Exam online	**Comprehensive Final Exam**