

Cybersecurity Projects Summary

Project 5	Physical Security
Brief description/purpose	A student-run data center, with a network confined to the classroom, supports coursework and security-based competitions. Before opening it up to support remote access, the administration asked for a plan that considers the physical security for the student run data center.
Courses to integrate	Cybersecurity Essentials, Security+, Network Security
Key terms/major topics	<ul style="list-style-type: none"> • <i>Key terms:</i> physical security • <i>Technical skills:</i> Provide detailed recommendations to physically secure a student data center: 1) local access, 2) wireless access, and 3) off-campus access. • <i>Employability skills:</i> <ol style="list-style-type: none"> a) Teamwork. Work constructively and respectfully in teams to construct and present a plan to provide physical security measures for a student data center. b) Problem Solving. Identify potential problem areas and suggested solutions to improve the physical security for a student data center. c) Verbal Communications (optional). Demonstrate effective verbal communication skills to present, explain, answer questions about, and refine one’s recommended plans to administration representatives. d) Planning and Organizing. Collaborate with classmates to organize and plan a set of thorough recommendations to maintain the physical security of a student data center.
Equipment/materials	<ul style="list-style-type: none"> • Internet access to: <ol style="list-style-type: none"> a) Physical Security Prevention Methods (6:43 video) b) The Four Necessary Basic Layers Required for Proper Physical Security c) Physical Security and Why It Is Important (PDF, copy and paste URL into browser) d) Best Practices for Designing Your Physical Security Infrastructure System e) Protecting Your System: Physical Security f) Data Center Physical Security Checklist (PDF, copy and paste URL into browser) • Handouts. <ol style="list-style-type: none"> a) Student_PhysicalSecurity • Estimated time required: 3 hours