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| **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** | * *Key terms:* physical security * *Technical skills:* Provide detailed recommendations to physically secure a student data center: 1) local access, 2) wireless access, and 3) off-campus access. * *Employability skills:*   1. **Teamwork.** Work constructively and respectfully in teams to construct and present a plan to provide physical security measures for a student data center.   2. **Problem Solving.** Identify potential problem areas and suggested solutions to improve the physical security for a student data center.   3. **Verbal Communications (optional).** Demonstrate effective verbal communication skills to present, explain, answer questions about, and refine one’s recommended plans to administration representatives.   4. **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** | * **Internet access** to:   1. [Physical Security Prevention Methods](https://youtu.be/uo41caqOBLk) (6:43 video)   2. [The Four Necessary Basic Layers Required for Proper Physical Security](http://www.elert.com/the-four-necessary-basic-layers-required-for-proper-physical-security/)   3. [Physical Security and Why It Is Important](https://www.sans.org/reading-room/whitepapers/physical/physical-security-important-37120/) (PDF, copy and paste URL into browser)   4. [Best Practices for Designing Your Physical Security Infrastructure System](http://www.datacenterknowledge.com/archives/2015/07/09/best-practices-designing-physical-security-infrastructure-system/)   5. [Protecting Your System: Physical Security](https://nces.ed.gov/pubs98/safetech/chapter5.asp)   6. [Data Center Physical Security Checklist](https://www.sans.org/reading-room/whitepapers/awareness/data-center-physical-security-checklist-416) (PDF, copy and paste URL into browser) * **Handouts.**    1. Student\_PhysicalSecurity * **Estimated time required:** 3 hours |