

Introduction to Cybersecurity

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Preliminary and Subject to Change

Faculty:

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The goal of this 4-credit intermediate level course is to introduce students to the concepts and tools used in cybersecurity. The theme is the security mindset, which is about how systems can fail or be made to fail. Students will work in teams on exercises in class in a lab environment.

The main topics are authentication, access control, cryptography, network security, application security, host security, VMs and Cloud security, and risk and vulnerability assessment. In preparation for more advanced classes, we covered basics of the Linux command line. Beyond this, the students read and discuss ethical aspects of privacy and security.

Students were expected to attend either in person or synchronously online.