COURSE DESCRIPTION:
As computer systems and information technologies rapidly advance, various abusive and fraudulent activities in cyber world proliferate as well. The examples of frauds include spam emails, malicious virus, junk conferences/journals, fake online reviews, manipulated Like preferences, fake news, and virtual phone numbers. As these fraudulent activities seriously undermine the eco system of entire information systems, it is critically important for students to be aware of popular online frauds in cyber world, and possible solutions toward the frauds.

In this course, therefore, we select a few representative examples of popular frauds in cyber world, understand the backbone technologies behind those frauds, and study various computational solutions toward the detection or prevention of such frauds. Compared to regular security classes, this class focus more on the intersection of data science and security—the so-called data-enabled and data-intensive security issues.

BOOK:
None.

TARGET AUDIENCE:
Junior/Senior or graduate students

EVALUATION METHODS:
Class discussion, homework, semester-long projects, and report.