## Lecture 16: May 3, 2021

**Reading:** *text*, §8.3–8.4,10.1–10.2.2

Assignments: Lab 2, due May 5, 2021 Homework 3, due May 10, 2021 (Note new due date)

- Originator-controlled access control

   (a) Digital rights management
- 2. Role-based access control
- 3. Cryptography
  - (a) Codes vs. ciphers
  - (b) Attacks: ciphertext only, known plaintext, chosen plaintext
  - (c) Types: substitution, transposition

## 4. Symmetric Cryptography

- (a) Monoalphabetic (simple substitution):  $f(a) = a + k \mod n$
- (b) Example: Caesar (shift) cipher with k = 3, RENAISSANCE  $\rightarrow$  UHQDLVVDQFH