## Cybersecurity Minor

**College of Engineering**

**Bradley Department of Electrical & Computer Engineering**

**Students graduating in Spring 2019**

### Two minor core courses:

- **ECE 4560**: Applied Computer and Network Security Fundamentals  
  (Pre: ECE 4564 or CS 3214)  
  □ (3)

- **CS 4264**: Principles of Computer Security  
  (Pre: CS 3214 or (ECE 2500, ECE 3574))  
  □ (3)

### One of the following group (networks):

- **ECE 4564**: Network Application Design  
  (Pre: ECE 2504, ECE 2574)  
  □ (3)

- **CS 3754**: Cloud Software Development  
  (Pre: CS 2114)  
  □ (3)

- **CS 4254**: Computer Network Arch and Programming  
  (Pre: CS 3214)  
  □ (3)

- **ECE 4614**: Telecommunication Networks  
  (Pre: ECE 2504, ECE 2704, STAT 4714)  
  □ (3)

### One of the following group (systems):

- **CS 3214**: Computer Systems  
  (Pre: CS 2506, CS 2114)  
  □ (3)

- **CS/ECE 4504**: Computer Organization  
  (Pre: CS 3214)  
  □ (3)

- **ECE 3574**: Applied Software Engineering  
  (Pre: ECE 2574)  
  □ (3)

### One of the following group (interdisciplinary):

- **ACIS 4684**: Information Systems Security and Assurance  
  (Pre: ACIS 4554 or BIT 4554)  
  □ (3)

- **BIT 4614**: Information Security  
  (Pre: ACIS 4554 or BIT 4554)  
  □ (3)

- **FIN 4014**: Internet, Electronic, and Online Law  
  (Pre: None)  
  □ (3)

- **MATH 4175**: Cryptography  
  (Pre: One Math course at or above 3000 level)  
  □ (3)

- **MATH 4176**: Cryptography  
  (Pre: Math 4175)  
  □ (3)

### One additional course from either the networks, systems, or interdisciplinary list

**WWW XX**: Elective Course  
□ (3)
One credit seminar course
ECE 4944 Cybersecurity Seminar (only offered Spring term)
(Pre: ECE 2504 or CS 2505 and Senior Standing)

TOTAL  (1)

Declaration Requirement: Students wishing to declare their intention to complete the cybersecurity minor must first successfully complete CS 3214 OR ECE 3574. Students may declare their intention at http://www.enge.vt.edu/undergraduate/undergraduate-changing-majors.html

GPA Requirement: Students must obtain a GPA of 2.0 or better over the courses used to satisfy the requirements of the minor.

1 This checksheet does not contain hidden prerequisites.