**MS in Cybersecurity**

**Home Department:** Electrical and Computer Engineering

**Primary department admission contact:** Stacia Fortune (sfortune@iastate.edu)

**Primary faculty contact:** Doug Jacobson (dougj@iastate.edu)

# This degree is offered both on and off campus.

# Application Guidelines for Domestic (U.S.) Citizens and International Students

# This program aligns with the application requirements for the graduate program in the Department of Electrical and Computer Engineering. Please see the “Application Requirements” section here: <https://www.ece.iastate.edu/admissions/graduate-admissions/>

# Note: International students must be on campus\*

# Typical Program of Study for Masters of Science (30 credits total):

|  |  |  |
| --- | --- | --- |
| Course | Credits | Course Title |
| Core |  |  |
| CYBSC 5300 | 3 | Advanced Computer Networking |
| CYBSC 5310 | 3 | Computer Security |
| CYBSC 5320 | 3 | Information warfare |
| CYBSC 5340 | 3 | Ethical and Legal Issues in Computer Security |
| Choose 2: |  |  |
| CYBSC 5330 | 3 | Cryptography |
| CYBSC 5350 | 3 | Steganography and Digital Image Forensics |
| CYBSC 5360 | 3 | Computer and Network Forensics |
| Cpr E 5370 | 3 | Wireless Network Security |
| CYBSC 5380\* | 3 | Reverse Engineering and Security Testing |
| Cpr E 5390\* | 3 | Cyber Physical System Security for the Smart Grid |
| Cpr E 5620X | 3 | Secure Software Engineering |
| Electives: |  |  |
| Department list | 6-9 | Any 400-level class (not to exceed 6 credits) or any 500-level course in CprE or COM S\* |
| One of two options: |  |  |
| Cpr E 5990 | 3 | Creative Component (non-thesis MS) |
| Cpr E 6990 | 6 | Thesis based MS |

***\*Only offered on campus. Not available online.***

**Co-Major with Computer Engineering**

Students in CYBSC with Computer Engineering as the home department can co-major in computer engineering by meeting the below requirements. In most cases, all courses can be counted for both degrees.

* Of the 24 course credit hours, six (6) credits must be from non-security courses.
* **On-campus students only:** Each student is required to attend 2 Ph.D. or M.S. defenses during her/his tenure as requirements for graduation.
* **On-campus students only:** Each student needs to fulfill the publication requirement of at least 1 journal or peer-reviewed conference paper submission.