### Cybersecurity

**YEAR 1**

**FALL**
- MATH 220 (4) Analytic Geometry and Calculus I
- CIS 115 (2) Introduction to Computing Science
- CIS 116 (1) Introduction to Programming
- PHYS 113 (4) General Physics I
- PHYS 223 (5) Physics I, Mechanics and Thermodynamics
- CIS 015 (0)

**SPRING**
- MATH 221 (4) Analytic Geometry and Calculus II
- CIS 200 (4) Programming Fundamentals
- ECE 241 (3) Introduction to Electrical and Computer Engineering
- PHYS 213 (5) Engineering Physics I
- PHYS 224 (5) Physics II, Electromagnetism, and Sound
- CIS 018 (0)

**YEAR 2**

**FALL**
- CIS 300 (3) Data and Program Structures
- CIS 301 (3) Logical Foundations of Programming
- CIS 302 (3) Introduction to Sociology
- PHYS 214 (5) Engineering Physics II
- PHYS 224 (5)
- CIS 018 (0)

**SPRING**
- MATH 510 (3) Discrete Mathematics
- CIS 415 (3) Ethics and Conduct for Computing Professionals
- ENGL 200 (3) Expository Writing II
- PHYS 214 (5) Institutional
- PHYS 221 (3) Elective
- CIS 018 (0)

**YEAR 3**

**FALL**
- CIS 308 (1) C Language Laboratory
- CIS 501 (3) Software Architecture and Design
- CIS 517 (3) Fundamentals of Cryptography
- STAT 510 (3) Introductory Probability and Statistics I
- CIS 018 (0)

**SPRING**
- CRIM 550 (3) Technocrime, Security and Society
- CIS 450 (3) Computer Architecture and Operations
- CIS 555 (3) Database System Concepts
- ENGL 415 (3) Written Communication for Engineers
- CIS 018 (0)

**YEAR 4**

**FALL**
- CIS 551 (3) Fundamentals of Computer and Information Security
- CIS 525 (3) Introduction to Network Programming
- CRIM 550 (3)
- CIS 575 (3)
- CIS 018 (0)

**SPRING**
- CIS 599 (3) Cybersecurity Project
- CIS 655 (3) Security and Reliability of Computing Systems
- CIS 755 (3) Systems Security
- CIS 560 (3)
- CIS 018 (0)

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**120 credit hours total**

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**KEY**
- = Prerequisite for another course
- PR = Prerequisite requirement
- PR/CO = Prerequisite or concurrent requirement
- KSC = K-State Core
- = See department approved electives
- = Only offered in the semester shown

Flowchart is for advising purposes only. Students are responsible for complying with University Catalog requirements.
Cybersecurity Curriculum Notes

To graduate with a B.S. in cybersecurity, students must have at least a 2.3 GPA in all classes at the 400 level or above taken for undergraduate credit from the Carl R. Ice College of Engineering at Kansas State University. Course grades that have been removed by the K-State Retake policy will not apply to this GPA calculation.

All students new to the CS department must complete CIS 015.

Additional information is available at cs.k-state.edu/academics/undergraduate/cybersecurity.

Electives
The Math elective must have departmental approval.

Students who satisfy all or part of K-State Core Natural and Physical Sciences electives (Requirement #4) and/or Institutional Electives (Requirement #7) with courses that satisfy other degree requirements may use additional unrestricted electives to meet the degree requirement of 120 credit hours.

Communications Overlay
All students must complete at least two courses (6 hours), which may be used as unrestricted electives or, where applicable, K-State Core requirements, from the following list:
- Any K-State Core Communications course (KSC-2) (3)
- COMM 323 Nonverbal Communication (3)
- COMM 326 Group Communication (3)
- MANGT 220 Principles of Management (3)
- THTRE 261 Fundamentals of Acting (3)
- THTRE 265 Fundamentals of Improvisation I, II (3)

K-State Core
The K-State Core (KSC) is the university’s version of the systemwide general education framework established by the Kansas Board of Regents.

KSC requirement 1 — English (6 hours)
KSC requirement 2 — Communications (3 hours)
KSC requirement 3 — Math and Statistics (3 hours)
KSC requirement 4 — Natural and Physical Sciences (4-5 hours)
KSC requirement 5* — Social and Behavioral Sciences (6 hours)
KSC requirement 6* — Arts and Humanities (6 hours)
KSC requirement 7 — Institutional Electives (6 hours)

To view course lists for each requirement, visit k-state.edu/provost/kstate-core.

*Requires two courses from two different subject areas.