### Cybersecurity

**FALL** | **SPRING**
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**YEAR 1**
MATH 220 (4) | Analytic Geometry and Calculus I
KSC-3
CIS 115 (2) | Introduction to Computing Science
CIS 200 (4) | Programming Fundamentals
PR/CO: MATH 205 or 220 ≥ C
CIS 116 (1) | Introduction to Programming
ECE 241 (3) | Introduction to Electrical and Computer Engineering
**YEAR 2**
ENGL 100 (3) | Expository Writing I
KSC-1
PHYS 113 (4) | General Physics I
KSC-2
COMM 106 (3) | Public Speaking
PR: MATH 221
CIS 015 (0) | Arts and Humanities
KSC-6
CIS 018 (0)
**YEAR 3**
STAT 510 (3) | Introductory Probability and Statistics I
PR: MATH 221
MATH 510 (3) | Discrete Mathematics
PR: CIS 200 ≥ C
CIS 400 (3) | Object-Oriented Design, Implementation and Testing
PR: CIS 300 ≥ C
CIS 415 (3) | Ethics and Conduct for Computing Professionals
PR: CIS 300 ≥ C
CIS 501 (3) | Software Architecture and Design
PR: CIS 400 ≥ C
CIS 505 (3) | Introduction to Programming Languages
PR: CIS 400 ≥ C
**YEAR 4**
CIS 551 (3) | Fundamentals of Computer and Information Security
PR: CIS 450 or 520 ≥ C
CIS 553 (3) | Fundamentals of Cryptography
PR: CIS 300 ≥ C, MATH 510 ≥ C
CIS 560 (3) | Database System Concepts
PR: CIS 300, 308 ≥ C
CIS 755 (3) | Systems Security
PR: CIS 551 or 751 ≥ C
**TOTAL 120 credit hours**

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

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.