



GENERAL EDUCATION (41-42 CREDIT HOURS)

See the KSU catalog for complete listing of requirements.

The area A math requirement is (MATH 1111 and MATH 1112) or MATH 1113, and the area D math requirement is MATH 1190 (Calculus I) or MATH 1160 (Elementary Applied Calculus). The area B requirement is COM 1100 Human Communication. The area E requirement is either ECON 2100 (Principles of Microeconomics) or CRJU 1101 (Foundations of Criminal Justice).

LOWER DIVISION MAJOR REQUIREMENTS (AREA F) (18 CREDIT HOURS)

- ACCT 2100 - Introduction to Financial Accounting
- MATH 2332 - Probability and Data Analysis **OR** STAT 1107 - Introduction to Statistics **OR** ECON 2300 - Business Statistics
- CSE 1321 - Programming Problem Solving I **AND** CSE 1321L – Programming Problem Solving I Lab
- IT 1323 - Advanced Programming Principles **AND** IT 1323L - Advanced Programming Principles Lab
- CSE 2300 - Discrete Structures for Computing **OR** MATH 2345 - Discrete Mathematics
- One Hour from Area D

UPPER DIVISION MAJOR REQUIREMENTS (36 CREDIT HOURS)

Upper Division Technical Core (12 Credit Hours)

- CYBR 3123 - Hardware and Software Concepts
- CYBR 3423 - Operating Systems Concepts & Administration
- CYBR 4323 - Data Communications & Networking
- CYBR 4423 - Linux/Unix Administration

Upper Division Security Core (21 Credit Hours)

- CYBR 3100 - Principles of Information Security
- CYBR 3200 - Network Security
- CYBR 3210 - Client Systems Security
- CYBR 3300 - Management of Information Security in a Global Environment
- CYBR 4200 - Perimeter Defense
- CYBR 4220 - Server Systems Security
- CYBR 4330 - Incident Response and Contingency Planning

CAPSTONE (3 Credit Hours)

- CYBR 4810 - Cyber Defense

UPPER DIVISION MAJOR SPECIALIZATIONS (9 Credit Hours)

All BS-CYBER students are required to take a minimum of 9 credit hours as an upper-level specialization. They must choose one of the following tracks and complete all of the courses listed. The options are:

Systems Security Track

- CYBR 3153 - Database Systems
- CYBR 4843 - Ethical Hacking for Effective Defense **OR** CYBR 4883 - Infrastructure Defense
- CYBR 4350 - Management of Digital Forensics and eDiscovery **OR** CYBR 4853 - Computer Forensics

Network Security Track

- CYBR 4333 - Network Configuration & Administration
- CYBR 4833 - Wireless Security
- CYBR 4893 - Internet of Things: Applications and Security

Cyber Crime Track (Note: requires CRJU 1101 as Area E requirement, otherwise students take as a Free Elective)

- CYBR 3305 - Technology and Criminal Justice
- CYBR 4305 - Technology and Cyber Crime
- CYBR 4350 - Management of Digital Forensics and eDiscovery **OR** CYBR 4853 - Computer Forensics

MAJOR ELECTIVES (9 Credit Hours)

Students should choose 9 credit hours from the following:

- CYBR 3220 - Global IS Project Management **OR** CYBR 3223 - Software Acquisition and Project Management
- CYBR 3396 - Cooperative Study (Upon approval of the Program Coordinator, Host Department and KSU Career Services)
- CYBR 3398 - Internship (Upon approval of the Program Coordinator, Host Department and KSU Career Services)
- CYBR 4400 - Directed Study (Upon approval of the Program Coordinator and Host Department)
- CYBR 4490 - Special Topics (Upon approval of the Program Coordinator and Host Department)
- CYBR 4700 - Emerging Topics in Cybersecurity (Varies by offering)
- Any 3xxx or 4xxx IS/ISA/IT/CS/CRJU course the student can meet the prerequisites for except restricted ISA or IT Security course (see advisor for complete listing)

FREE ELECTIVES (6 - 7 Credit Hours)

Any course(s) in the university curriculum.

FOUNDATIONS FOR HEALTHY LIVING (3 Credit Hours)

- WELL 1000 - Foundations for Healthy Living

PROGRAM TOTAL (123 Credit Hours)

Note: Student must earn a grade of 'C' or better in all 3xxx and 4xxx designated courses

MINORS AND CERTIFICATES AVAILABLE

Information Technology Minor (Embedded)

Students earning a major in Cybersecurity will also earn a minor in Information Technology.

Criminal Justice Minor (9 + 3 Credit Hours)

Students desiring a minor in criminal justice should take the CJ track outlined above **AND** the following courses as major and free electives. Note the 4th course will count as a free elective.

- CRJU 3310 - Police in America
- CRJU 3332 - Corrections **OR** CRJU 3352 - Juvenile Delinquency and Corrections
- CRJU 3300 - Criminal Courts **OR** CRJU 3315 - Criminal Procedure
- One CRJU course from approved minor elective list (see catalog for listing and availability)

Crisis Preparedness Minor (9 + 3 Credit Hours)

Students desiring a minor in crisis preparedness should take the following courses as major and free electives. Note the 4th course will count as a free elective.

Required Courses (6 Credit Hours) Note: BS-CYBR students take ISA 3300 and ISA 4330 in lieu of ISA 3330.

- PR 4460 - Crisis Communication
- POLS 4200 - Homeland Security Administration

Elective Courses (6 Credit Hours as Free electives) selected from the following:

- CRJU 3400 - Ideological/Group Violence and Law Enforcement
- CRJU 4100 - Ethics in Criminal Justice
- PR 4670 - Crisis Leadership Communication
- POLS 4437 - Global Security