KENNESAW STATE UNIVERSITY
INSTITUTE FOR CYBERSECURITY WORKFORCE DEVELOPMENT

BS-CYBERSECURITY

RECOMMENDED CYBR COURSE SEQUENCE

Freshman Year	Sophomore Year	Junior Year	Senior Year

IT 1114* Programming Principles

IT 1114L* Programming Principles Lab

CSE 1321* Programming & Problem Solving I

CSE 1321L* Programming & Prob. Solv. I Lab

CYBR 3123 Hardware & Software Concepts

CYBR 2310 Software Assurance

CYBR 3100 Principles of Cybersecurity

CYBR 3210 Client Systems Security

CYBR 3423 OS Concepts & Admin

CYBR 4323 Data Comm. & Networking

CYBR 3200 Network Security

CYBR 3300 Mgmt of CYBR in a Global Env.

CYBR 4423 Linux/Unix Admin

CYBR 4200 Perimeter Defense

CYBR 4330 IR & Contingency Planning

CYBR 4220 Server Systems Security

CYBR 4810 Cyber Defense (Capstone)

Arrows indicate prerequisite structure.
** IT 1114 **must** be taken with IT 1114L. CSE 1321 **must** be taken with CSE 1321L: both should be completed in the freshman year to avoid delaying graduation*

Major Electives
- CYBR 3220 - Global IS Project Management **OR** CYBR 3223 - Software Acquisition and Project Management
- CYBR 3396 - Cooperative Studies
- CYBR 3398 - Internship
- CYBR 4400 - Directed Study
- CYBR 4490 - Special Topics
- CYBR 4700 - Emerging Topics in Cybersecurity
- Any 3xxx or 4xxx IS/ISA/IT/CS/CRJU course the student can meet the prerequisites for except restricted ISA or IT Security courses (see advisor for complete listing)

Minors Available
Criminal Justice Minor (9 Major Elective + 3 Free Elective hours)
Students desiring this minor should take the CJ specialization **AND**
- CRJU 3312 - State and Federal Law Enforcement Initiatives
- CRJU 3332 - Corrections **OR** CRJU 3352 – Juvenile Justice
- CRJU 3340 - Legal Analysis
- CRJU 4305 - Technology abd Cybercrime

Crisis Preparedness Minor (9 Major Elective + 3 Free Elective hours)
Required Courses (6 Credit Hours)
- PR 4460 - Crisis Communication
- POLS 4200 - Homeland Security Administration

Elective Courses (6 Credit Hours) from:
- CRJU 4100 - Ethics in Criminal Justice
- PR 4670 - Crisis Leadership Communication
- POLS 4437 - Global Security

Note: Students may select other options for these minors, however these are recommended by the Cybersecurity program director.

Students should see an advisor yearly to maintain progress toward graduation:

cyberinstitute.kennesaw.edu/academics/Advising.php
or *cyberinstitute@kennesaw.edu*

EFFECTIVE FALL 2022

GENERAL EDUCATION (AREAS A-E / 42 CREDIT HOURS) - *See the KSU catalog for complete listing of requirements.*
The area A2 requirement is MATH 1113, and the area D1 requirement is MATH 1190 - Calculus I. The area D2 requirement is the CHEM, PHYS, or BIOL sequence.

LOWER DIVISION MAJOR REQUIREMENTS (AREA F / 18 CREDIT HOURS)
- ACCT 2101 - Principles of Accounting I
- ECON 2300: Business Statistics **OR** STAT 2332: Probability and Data Analysis
- IT 1114 - Programming Principles **AND** IT 1114L - Programming Principles Lab
- CSE 1321 - Programming & Problem Solving I **AND** CSE 1321L – Programming & Problem Solving I Lab
- CYBR 2310 - Software Assurance
One hour from Area D (see advisor for details)

UPPER DIVISION MAJOR REQUIREMENTS (37 CREDIT HOURS)
Upper Division Technical Core (13 Credit Hours)
- CYBR 3123 - Hardware and Software Concepts
- CYBR 3423 - Operating Systems Concepts & Administration
- CYBR 4323 - Data Communications & Networking
- CYBR 4423 - Linux/Unix Administration
One hour from Area D (see advisor for details)

Upper Division Security Core (24 Credit Hours)
- CYBR 3100 - Principles of Cybersecurity
- CYBR 3200 - Network Security
- CYBR 3210 - Client Systems Security
- CYBR 3300 - Management of Cybersecurity in a Global Environment
- CYBR 4200 - Perimeter Defense
- CYBR 4220 - Server Systems Security
- CYBR 4330 - Incident Response and Contingency Planning
- CYBR 4810 - Cyber Defense (Capstone)

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
Cybercrime Track
- CRJU 1101 - Foundations of Criminal Justice
- CYBR 3305 - Technology and Criminal Justice
- CYBR 4305 - Technology and Cyber Crime

MAJOR ELECTIVES (9 Credit Hours)
FREE ELECTIVES (5 Credit Hours)