Cybersecurity Program
Catalog 2021/2022 – 120 Hours

NOTE: This flowchart is provided as a guide; the catalog is the only definitive source of requirements.

Mathematics – 10 hours

STA 2023 (3 hrs) Introductory Statistics
MAC 1147 (4 hrs) PreCalc Alg/Trig
MAD 2104 (3 hrs) Discrete Math

Science – 6 hours

EGN 3000/3000L (3 hrs) Foundations of Engineering
PHY 2020 (3 hrs) Conceptual Physics
COP 2512 (3 hrs) Programming Fund for IT
CGS 1540 (3 hrs) Intro to Databases

English – 6 Hours

ENC 1101 (3 hrs) Composition I
ENC 1102 (3 hrs) Composition II

Note: CGS 1540 with a minimum grade of B based on best attempts. This requirement must be met with a maximum of two attempts allowed.

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Breadth courses – 6 hours

PSY 2012 (3 hrs) Intro to Psychological Sci
ECO 2013 (3 hrs) Econ Principles Macroeconomics

Additional requirements

Gen Ed Humanities (3 hrs)
Gen Ed Human and Cultural Diversity in GC (3 hrs)
Gen Ed Information and Data Literacy (3 hrs)
ENC 3246 Communication for Engineers (3 hrs)
Foreign Lang (8 hrs or 2 years high school)

Industry internship

An industry internship is recommended for the third summer. Credit can be earned as CIS 4947 Industry Internship for IT (3 hrs – Approved Cybersecurity elective). See Department Advisor for information.

Industry certification

Students are prepared to earn CompTIA Network+ and Security+ certifications with some additional study needed. Students are prepared to get practical experience to earn CISSP certification.

Notes

1) MAC 1147 may require MAC 1105 College Algebra as a pre-req. Consult with the Department Advisor.
2) Approved Cybersecurity Electives have varying preqs – see the Department website for more information.
3) The maximum number of credit hours for COP 4900 and CIS 4947 in any combination is 9 credit hours. No more than 3 hours of CIS 4947 in a single company.

Approved Cybersecurity electives (9 hrs)

CIS 4200 (3 hrs) Penetration Testing for IT
CIS 4622 (3 hrs) Hands-on Cybersecurity

General Electives (9 hrs)

CGS 3303 (3 hrs) IT Concepts
CGS 3304 (3 hrs) IT Concepts
CGS 3305 (3 hrs) IT Concepts
ISM 4323 (3 hrs) Information Sec and IT Risk Management
LIS 4414 (3 hrs) Information Policy and Ethics
CIS 4935 (4 hrs) Senior Project in IT

Requires a 3.2 grade average in MAD 2104, STA 2023, PHY 2020, and MAC 1147 for continuation. All grades “C” or better (“C-” is not acceptable). No more than two courses in upper-level pre-continuation.