Cybersecurity Program
Catalog 2019/2020 – 120 Hours

For admission completion of MAD 2104, CGS 1540, COP 2512, and COP 2513 with a minimum GPA of 3.0 (all grades "C" or better, "C-" is not acceptable). No more than two courses in the Department pre-admission.

Mathematics – 10 hours

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

Science – 6 hours

EGR 3000/3000L (3 hrs) Foundations of Engineering
PHY 2020 Conceptual Physics (3 hrs)
Natural Science Elective (3 hrs)

COP 2512 (3 hrs) Programming Fund for IT
CGS 1540 (3 hrs) Intro to Databases
CIS 3213 (3 hrs) Foundations of Cyber Security

CGS 3303 (3 hrs) IT Concepts

EGN 3000/3000L (3 hrs) Foundations of Engineering

English – 6 Hours

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

Physics

CYB 4315 (3 hrs) Cryptography

Science – 6 hours

EGN 3000/3000L (3 hrs) Foundations of Engineering

Science

CYB 4315 (3 hrs) Cryptography

CIS 3615 (3 hrs) Secure Software Development

ISM 4323 (3 hrs) Information Sec and IT Risk Management

Breadth courses – 6 hours

PSY 2012 (3 hrs) Intro to Psych Sci (FKL Soc/Beh)
ECO 2013 (3 hrs) Macroeconomics (FKL Soc/Beh)

Muma

Muma

USF-SM

Muma

CAS

CIS 4935 (4 hrs) IT Senior Project (Senior standing)

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 will be prepared to immediately earn CompTIA Security+ and CompTIA Network+ certifications. Students will be prepared to get practical experience to earn the CISSP certification.

Approved Cybersecurity electives (15 hrs)

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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)

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