

Lackawanna College

CYBER SECURITY

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS

ACADEMIC YEAR 2023-2024

NAME _____

Academic advisors help students coordinate their academic plans while at Lackawanna College; however, students bear the ultimate responsibility for insuring that they meet the requirements for their degree.

Coursework in the Cyber Security major is sequential and begins in the fall semester. Students must earn a minimum grade of “C” in all CYB courses to continue in the program. All CYB courses (except CYB 200) are offered in an online format only. Students are eligible to enroll as a Cyber Security major if they need ONE bridge level course (either ENG 102, ENG 103, or MAT 110). This bridge requirement must be scheduled and successfully completed in the student’s first semester. Students may not continue in the program if this requirement is not successfully completed.

Bridge Course Requirement: ENG 102 OR ENG 103 OR MAT 110 _____

Semester Grade
Taken Earned **First Semester 16 Credits**

_____ _____ CYB 105 Introduction to Cyber Security
_____ _____ CYB 110 Operating System Fundamentals
_____ _____ COM 125 Effective Speaking
_____ _____ ENG 115 Business Communications*
_____ _____ Social Science Elective _____
_____ _____ COL 101 Freshman Experience (1 cr.)

Semester Grade
Taken Earned **Second Semester 15 Credits**

_____ _____ CYB 125 Scripting/Programming Essentials
_____ _____ CYB 205 Cyber Security Design Principles
_____ _____ MAT 120 College Algebra*
_____ _____ PHL 105 Introduction to Philosophy
_____ _____ Humanities Elective _____
_____ _____ OR
_____ _____ Free Elective _____

Semester Grade
Taken Earned **Third Semester 17 Credits**

_____ _____ CYB 120 Networking Fundamentals
_____ _____ CYB 210 Operating System Administration
_____ _____ CYB 220 Network Design & Protocols (4 cr.)
_____ _____ MAT 220 Pre-Calculus (4 cr.)
_____ _____ Science Elective* _____
_____ _____ ESW 101 Employment Skills Workshop ** (0 cr.)

Semester Grade
Taken Earned **Fourth Semester 18 Credits**

_____ _____ CYB 215 Introduction to Cryptography
_____ _____ CYB 235 Network Security Automation (4 cr.)
_____ _____ CYB 240 Virtualization/Cloud Comp. (4 cr.)
_____ _____ CYB 200 Cyber Security Internship
_____ _____ Free Elective _____
_____ _____ COL 201 Capstone Seminar (1 cr.)

**ESW 101 must be successfully completed prior to enrollment in CYB 200

**Developmental Education requirements must be successfully completed before a student may enroll in these courses. Credits earned in developmental courses cannot be applied toward graduation.*

CATEGORICAL ELECTIVE OPTIONS ARE LISTED ON BACK OF CURRICULUM GUIDE

CATEGORICAL ELECTIVES** – ACADEMIC YEAR 2023-2024

Business Elective: any non-required accounting, business, computer information systems, cyber security, economics, esports, finance, hospitality management, management, marketing, or sport management listing

Business Elective (200 level): any non-required 200 level (or higher) accounting, business, computer information systems, cyber security, economics, esports, finance, hospitality management, management, marketing, or sport management listing

Business Elective (300 level): ACC 305, ACC 310, ACC 315, ACC 320, ACC 325, ACC 330, ACC 335, ACC 405, ACC 410, ACC 420, ACC 425, BUS 305, BUS 310, BUS 315, BUS 320, BUS 325, BUS 335, BUS 410, ESP 305, ESP 405, FIN 325, HCM 305, HCM 405, MGT 305, MGT 310, MGT 320, MGT 330, MGT 340, MGT 350, MGT 410, MGT 450, MKT 310, MKT 320, MKT 325, RFM 305, RFM 310, RFM 320, RFM 410, RFM 435, RFM 460

Concentration Courses: COM 205, COM 208, COM 210, COM 228, COM 310, CTN 225, CTN 230, CTN 245, CTN 250, CTN 255, EDU 215, ENG 315, ENG 325, ENG 335, ENG 340, ENG 345, ENG 350, ENG 355

Core Curriculum Elective: Any non-required humanities, social science, or science

Core Elective (300 level): BUS 305, BUS 310, BUS 410, CJS 330, CJS 410, CJS 425, COM 310, ENG 305, ENG 310, ENG 315, ENG 320, ENG 330, ENG 335, ENG 340, ENG 345, ENG 350, ENG 355, HIS 305, HIS 310, HIS 320, HSV 345, HSV 355, HSV 375, HSV 410, HSV 415, HSV 425, MGT 310, MKT 320, MKT 325, PHL 305, PHL 310, PHL 315, PSY 305, PSY 310, RST 310, SSC 310, SSC 315, SSC 320, SSC 325, SSC 330, SSC 340, SSC 410

Criminal Justice Elective (300 level): CJS 305, CJS 315, CJS 335, CJS 425, HSV 345, HSV 355, HSV 415, HSV 435, SSC 330, SSC 410

Diversity/Global Studies Elective: ACC 235, BUS 410, COM 228, CYB 105, CYB 205, ENG 220, ENG 240, ESC 130, HIS 110, HIS 130, HIS138, HIS155, HIS215, HIS220, HIS305, HIS 310, HIS 320, HSV 375, HSV 425, MGT 235, MGT 330, MKT 215, MKT310, MKT 320, PHL 315, RST 210, RST 310, SPN 101, SSC 225, SSC 235, SSC 260, SSC 310, SSC 340

Diversity/Global Studies Elective (300 level): BUS 410, HIS 305, HIS 310, HIS 320, HSV 375, HSV 425, MGT 330, MKT 310, MKT 320, PHL 315, RST 310, SSC 310, SSC 340

Free Elective: any non-required 3 credit course (DEV courses do not satisfy this requirement)

History Elective: HIS 105, HIS 110, HIS 118, HIS 120, HIS 130, HIS 138, HIS 140, HIS 155, HIS 215, HIS 220, HIS 305, HIS 310, HIS 320

Human Services Elective (300 level): HSV 315, HSV 340, HSV 345, HSV 350, HSV 355, HSV 375, HSV 415, HSV 425, HSV 435, HSV 445, PSY 310, SSC 330, SSC 340, SSC 410

Humanities Elective: Any non-required fine arts (ART), communications (COM/CTN), literature (ENG), history (HIS), language (SPN), religious studies (RST), or philosophy (PHL) listing

Humanities Elective (200 level): Any non-required 200 level fine arts (ART), communications (COM/CTN), literature (ENG), history (HIS), language (SPN), religious studies (RST), or philosophy (PHL) listing

Literature Elective (200 level): ENG 215, ENG 220, ENG 225, ENG 230, ENG 235, ENG 240, ENG 310, ENG 320, ENG 330, ENG 345

Literature Elective (300 level): ENG 310, ENG 320, ENG 330, ENG 345

Philosophy Elective: PHL 105, PHL 115, PHL 120, PHL 125, PHL 140, PHL 145, PHL 205, PHL 210, PHL 225, PHL 305, PHL 310, PHL 315, PHL 410

Science Elective: BIO 105, BIO 110, BIO 115, ESC 105, ESC 115, ESC 130, ESC 135, ESC 140, ESC 155, PHY 105

Science Elective (200 level): BIO 225, BIO 235, BIO 260, BIO 265

Social Science Elective: Any non-required psychology, sociology, criminal justice, education, human services, or history listing, LAW 230

Social Science Elective (200 level): Any non-required 200 level psychology, sociology, criminal justice, education, human services, or history listing, LAW 230

Social Science Elective (300 level): Any non-required 300 level psychology, sociology, criminal justice, human services, or history listing

Workshop Selections: WRT 410, WRT 420, WRT 430

****MANY OF THE COURSES LISTED AS CATEGORICAL ELECTIVES HAVE PREREQUISITES.
PLEASE REVIEW COURSE DESCRIPTIONS FOR PREREQUISITE INFORMATION****