



A.A.S. in Cybersecurity to BS in Cybersecurity

Year One, First Semester - JJC

CIS 122 Computer Information System Fundamentals
 ENG 101 Rhetoric
 CIS 277 Computer Security for the Home & Small Business
 MATH 131 College Algebra
 CIS 123 Linux Essentials Network Development Group

Year One, Second Semester - JJC

GEN ED Social Science (consult advisor)
 ENG 102 Rhetoric II
 CNT 101 Network Fundamentals
 CIS 275 IT Technical Support
 CIS 276 Advanced IT Support
 CIS 263 Network Essentials

Summer Semester - JJC

CNT 220 CCNA Security
 GEN ED Lab Science (consult advisor)

Year Two, Third Semester - JJC

CIS 272 Server Fundamentals
 CIS 292 Computer & Network Security
 CIS 296 Computer Forensics
 CIS 135 Computer Programming

 GEN ED Fine Arts or Literature or Philosophy (consult advisor)*

Year Two, Fourth Semester - JJC

CIS 2XX Core Elective (consult advisor)
 CIS 236 Programming in C
 CIS 278 Ethical Hacking
 CIS 294 Cybersecurity Analyst
 CIS 297 CyberOps

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Lewis Advisor: Office of Admissions
admissions@lewis.edu

Year Three, Fifth Semester - JJC & Lewis

MATH 137 Introduction to Discrete Math
 ECON 103 Principles of Economics 1
 COMM 101 Principles of Speech Communication
 CPSC 33000 Database Systems (Lewis)
 GEN ED Social Science (consult advisor)
 UNIV 10100 Cornerstone (Lewis)

Year Three, Sixth Semester - JJC & Lewis

GEN ED Fine Arts or Literature or Philosophy (consult advisor)*
 HIST 105 History of Civilization I
 CIS 162 Intro to Wireless Communications
 PHIL 103 Introduction to Ethics
 CPSC 35000 Operating Systems (Lewis)

Year Four, Seventh Semester - Lewis

THEO 10000 Search for Faith (Lewis)
 Seminar Interdisciplinary Seminar (Lewis)
 CPSC 34000 Algorithms and Data Structures (Lewis)
 CPSC 30000 Computer Organization (Lewis)
 INSY 23000 Legal and Ethical Issue in Computing (Lewis)
 INSY 46000 Cybercrime Prevention (Lewis)

Year Four, Eighth Semester - Lewis

CPSC 42100 Computer Security II (Lewis)

 CPSC 42500 Encryption (Lewis)
 CPSC 42700 Programming for Penetration Testing (Lewis)
 CPSC 49300 Infrastructure Capstone (Lewis)
 SOCI 29000 Diversity and Social Justice (Lewis)

Total JJC Credits: 95**

Total Lewis Credits: 43**

Total Credits: 138 (as written)**



*Two different disciplines



3+1

****This transfer guide is a sample curriculum. Additional courses may be required based on placement test scores. Please work with your faculty advisor or success coach prior to course registration.**

Notes:

1. Students will be required to complete a minimum of 128 credit hours for the Bachelor of Science degree.
2. Graduates of JJC must complete a minimum of 32 credit hours from Lewis to be awarded the Bachelor of Science degree. All other program requirements apply.
3. Students should ideally submit interest in the program to Lewis in their first semester at JJC in order to receive appropriate advising to maximize their semesters at JJC. The admissions application must be submitted in the last semester of JJC courses before enrolling at Lewis University.
4. Students completing the Associates in Cybersecurity degree with a minimum cumulative grade point average of 2.0 will be guaranteed admissions to Lewis.
5. Lewis will charge tuition for their courses at a 35% discount from the published per credit hour.

About Lewis's Program:

As cyber security threats continue to grow, so does the demand for qualified individuals able to safeguard our society's vital data and applications. Lewis' Bachelor of Science in Cybersecurity program offers a technical curriculum that teaches how to analyze vulnerabilities in computer software and hardware, anticipate attacks, and design security protections, controls, and monitoring services. As a subfield of Computer Science, the study of cybersecurity thoroughly familiarizes students with how computers represent, process, store, obfuscate, and communicate data so that they can anticipate hackers' moves, decipher their steps, and counteract their attacks. Students will also learn how to apply their knowledge ethically and legally in today's business environments.

CYBERSECURITY STUDENTS WILL DEVELOP EXPERTISE IN:

- Security Architecture and Models •Network Security •Cryptography
- Secure Coding •Penetration Testing and Ethical Hacking
- IT Operations Security •Disaster Recovery•IT Law, Investigations and Ethics
- Physical Security•Computer Forensics

About JJC's Program:

Cybersecurity is the first line of defense against the threats to an organization's network, programs, and data. It is designed to ensure confidentiality, integrity, and availability of data. Cybersecurity remains to be one of the most critical issues affecting individuals and organizations today.

A degree in cybersecurity prepares a student to have skills to monitor, mitigate, and prevent online threats. Students will learn the fundamentals of information security, networking, server fundamentals, operating systems such as Microsoft Windows and Linux, programming skills, computer forensics, ethical hacking, and analyzing network traffic.

The program gives students a good core foundation in cybersecurity, a field with immense career growth potential



Questions:

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