



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

JJC Faculty Advisor: Stanley Pieklo

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Lewis Advisor: Office of Admissions

[admissions@lewis.edu](mailto: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 received 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.



**Questions:**

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