



A.A.S. in Computer Programming to BS in Computer Science, Systems Programming Concentration

Year One, First Semester - JJC

CIS 122 Computer Information System Fundamentals
 CIS 126 or Microsoft Office or Beginning Microcomputer Applications
 CIS 124
 CIS 263 Networking Essentials
 ENG 101 Rhetoric
 CIS 135 Computer Programming

Year One, Second Semester - JJC

CIS 236 Programming in C
 CIS 216 World Wide Web Homepage Authoring
 CIS 211 Database Management Systems
 MATH 139 or Precalculus II or Accelerated Trigonometry/Pre-Calculus
 MATH 142
 GEN ED Fine Arts or Literature or Philosophy (consult advisor)*

Year Two, Third Semester - JJC

CIS 223 Java Script
 CIS 246 Advanced C using C++
 CIS 230 Visual Basic
 CIS 271 Windows Client OS
 CIS 261 Java Programming

Year Two, Fourth Semester - JJC

CIS 272 Server Fundamentals
 CIS 269 Data Structures
 CIS 250 System Analysis & Design
 GEN ED Social Science (consult advisor)
 GEN ED Fine Arts or Literature or Philosophy (consult advisor)*

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Lewis Advisor: Office of Admissions
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*Two different disciplines

Year Three, Fifth Semester - JJC

MATH 137 Introduction to Discrete Math
 ECON 103 Principles of Economics 1
 COMM 101 Principles of Speech Communication
 GEN ED Lab Science (consult advisor)
 PHIL 103 Introduction to Ethics

Year Three, Sixth Semester - JJC & Lewis

HIST 105 History of Civilization I
 MATH 170 Calculus with Analytic Geometry I
 ENG 102 Rhetoric II
 GEN ED Social Science (consult advisor)
Seminar *Interdisciplinary Seminar (Lewis)*
UNIV 10100 *Cornerstone (Lewis)*

Year Four, Seventh Semester - Lewis

THEO 10000 Search for Faith
 MATH 30500 Linear Algebra
 CPSC 44000 Software Engineering
 CPSC 30000 Computer Organization
 CPSC 42000 Computer Security
 CPSC 46500 Theory of Algorithms and Computation

Year Four, Eighth Semester - Lewis

MATH 31400 Applied Probability and Statistics
 CPCS 35000 Operating Systems
 CPSC 46000 Programming Languages
 CPSC 49200 Software Systems Capstone
 SOCI 29000 Diversity and Social Justice

Total JJC Credits: 100**

Total Lewis Credits: 37**

Total Credits: 137 (as written)**





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 Computer Programming 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:

Computer Science majors at Lewis have opportunities to learn every aspect of today's most influential field. Whether your interest is software development, cyber security, big data, cloud computing, artificial intelligence, robotics, or video game programming, you can learn it at Lewis and position yourself for a great career in which you will shape the future. The Bachelor of Science in Computer Science at Lewis University offers six distinct concentrations:

- Applied Programming
- Secure Programming
- Artificial Intelligence
- Game and Simulation Programming
- Mobile Application Development
- Systems Programming

A student may elect not to choose a concentration, as well. In addition, students may choose to minor in a closely related field, such as Cybersecurity Operations, Data Science, and Information Technology.

About JJC's Program:

Computer programming is the process of writing instructions that get executed by computers. The instructions, also known as code, are written in a programming language which the computer can understand and use to perform a task or solve a problem. Software analysts and engineers provide designs for computer programmers to follow.

You'll explore a variety of programming languages, including Python, C, C++, Java, and JavaScript. In each course, you'll write 8-10 programs that solve real-world problems, and along the way, you'll develop a portfolio of marketable skills.

JJC is proud to offer this degree to students completely online!

Questions:

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