

Attachment A: Bachelor of Science in Computer Science---Associate in Applied Science in Computer Programming

Joliet Junior College total credits = 94, Lewis University total credits = 31

First Semester	Hours	Second Semester	Hours
CIS 122 Computer Information System Fundamentals	4	CIS 236 Programming in C	4
CYBIT 110 Operating Systems Fundamentals	3	CIS 216HTML & CSS for Web Design or CIS Elective	3
CIS 145 Fundamentals of Networking or CYBIT 200 Networking Essentials	3	CIS 123 Linux Essentials Network Development Group	3
ENG 101 Rhetoric	3	MATH 128 Elementary Statistics	4
CIS 135 Introduction to Programming	4	Humanities and Fine Arts	3
Total Hours	17		17

Third Semester	Hours	Fourth Semester	Hours
CIS 223 JavaScript	3	CIS 261 Java Programming	4
CIS 246 Advanced C using C++	4	CIS 269 Data Structures	4
CIS 211 Database Management Systems	3	CIS 250 System Analysis & Design	3
Science	3	Social Science	3
		Humanities and Fine Arts	3
Total Hours	14		17

Fifth Semester	Hours	Sixth Semester	Hours
MATH 137 Introduction to Discrete Math	4	Humanities & Fine Arts	3
Social Science	3	MATH 139 Pre-Calculus II or MATH 142 Accelerated Trigonometry/Pre-Calculus	4-5
COMM 101 Principles of Speech Communication	3	ENG 102 Rhetoric II	3
Science	3	Social Sciences	3
<i>THEO 10000 Search for Faith</i>	3	<i>SOCI 29000 Diversity and Social Justice</i>	3
Total Hours	16		16-17

Seventh Semester	Hours	Eighth Semester	Hours
PHIL 103 Introduction to Ethics	3	<i>MATH 30500 Linear Algebra</i>	3
<i>MATH 20600 Applied Calculus or MATH 20900 Calculus I</i>	4	<i>CPSC 35000 Operating Systems</i>	3
<i>CPSC 30000 Computer Organization</i>	3	<i>CPSC 47000 Artificial Intelligence</i>	3
<i>CPSC 42000 Cybersecurity Essentials</i>	3	<i>CPSC 49200 Software Systems Capstone</i>	3
		<i>Theoretical Principles**</i>	3
Total Hours	13		15

Courses listed in italics are Lewis courses; all other courses are JJC courses.

****Theoretical Principles (3): Choose one of the following.**

- CPSC 42500 Encryption and Authentication
- CPSC 46000 Programming Languages
- CPSC 46500 Theory of Computation
- DATA 47100 Machine Learning
- MATH 35000 Numerical Analysis
- MATH 30600 Advanced Linear Algebra