

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

**Joliet Junior College (total credits =98, Lewis University total credits=33)**

<b>First Semester</b>	<b>Hours</b>	<b>Second Semester</b>	<b>Hours</b>
CIS 122 Computer Information System Fundamentals	4	CIS 236 Programming in C	4
CIS 172 Operating Systems Fundamentals	3	CIS 216 HTML & CSS for Web Design	3
CIS 145 Fundamentals of Networking or CIS 263 Networking Essentials	3	CIS 211 Database Management Systems	3
ENG 101 Rhetoric	3	MATH 139 Pre-Calculus II or MATH 142 Accelerated Trigonometry/Pre-Calculus	4-5
CIS 135 Introduction to Programming	4	Humanities and Fine Arts	3
<b>Total Hours</b>	<b>17</b>		<b>17-18</b>

<b>Third Semester</b>	<b>Hours</b>	<b>Fourth Semester</b>	<b>Hours</b>
CIS 223 Java Script	3	CIS 261 Java Programming	4
CIS 246 Advanced C using C++	4	CIS 269 Data Structures	4
CIS 230 Visual Basic	4	CIS 250 System Analysis & Design	3
Science	3	Social Science	3
CIS 2XX Program Elective	3	Humanities and Fine Arts	3
<b>Total Hours</b>	<b>17</b>		<b>17</b>

**Lewis University (total credits = 33)**

<b>Fifth Semester</b>	<b>Hours</b>	<b>Sixth Semester</b>	<b>Hours</b>
MATH 137 Introduction to Discrete Math	4	Humanities and Fine Arts	3
Social Science	3	MATH 170 Calculus with Analytic Geometry	5
COMM 101 Principles of 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
<b>Total Hours</b>	<b>16</b>		<b>17</b>

<b>Seventh Semester</b>	<b>Hours</b>	<b>Eighth Semester</b>	<b>Hours</b>
PHIL 103 Introduction to Ethics	3	<i>MATH 22000 Applied Probability and Statistics</i>	3
<i>MATH 30500 Linear Algebra</i>	3	<i>CPSC 35000 Operating Systems</i>	3
<i>CPSC 44000 Software Engineering</i>	3	<i>CPSC 46000 Programming Languages</i>	3
<i>CPSC 30000 Computer Organization</i>	3	<i>CPSC 49200 Software Systems Capstone</i>	3
<i>CPSC 42000 Cybersecurity Essentials</i>	3	<i>CPSC 46500 Theory of Algorithms and Computation</i>	3
<b>Total Hours</b>	<b>15</b>		<b>15</b>

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