

**Course Transfer Matrix for the
Bachelor of Science in Computer Science
at Grantham University**

Associate of Applied Science Computer Programming State Technical College of Missouri			Bachelor of Science Computer Science Grantham University		
General Education Courses					
COM101	English Composition*	3.00	EN101	English Composition I	3.00
COM121	Public Speaking*	3.00	CO101	Introduction to Public Speaking	3.00
MAT115	College Algebra*	3.00	MA105	College Algebra	3.00
PHY101/102	College Physics with a laboratory	4.00	PH220	Physics I	4.00
	Social Science Elective	3.00		Behavioral & Social Science Electives	3.00
	Technical Literacy Elective	3.00		General Education Elective	3.00
General Education Hours		19.00			
Program Core					
CPP122	Visual Basic Programming	3.00	CS192	Programming Essentials	
CPP140	Internship I (Required)	4.00		General Elective	
CPP215	Java Programming	3.00	CS200	Programming in Java	
CPP222	Database Systems Management and Design	3.00	CS270	Data Structures	
CPP223	Advanced Database Systems Management and Design	3.00	CS371	Database Design	
CPP245	C# Programming	3.00	CS263	Programming in C	
CPP237	Internet Programming	3.00		General Elective	
NST101	Network Fundamentals	3.00	CS216	Computer Networks	
BUS150	Business Principles	3.00		General Elective	
BUS260	Project Management	3.00		General Elective	
COM211	Technical Writing	3.00		General Education Elective	
COM125	Job Search Strategies	1.00		General Elective	
Program Core Hours		35.00			
Program Electives (General Option)					
CPP125	COBOL Programming Language	3.00		General Elective	
CPP133	Operating Platforms	3.00		General Elective	
CPP230	C++ Programming Language I*	3.00	CS265	Programming in C++	
	CPP/NST Electives	6.00		General Elective	
Program Elective Hours		15.00			
General Education Hours		19.00			
Program Core Hours		35.00			
Program Elective Hours		15.00			
Total Credit Hours		69.00			
* Denotes course student must complete at State Technical College of Missouri					
The following table outlines the requirements needed to receive a Bachelor of Science Computer Science from Grantham University					
Course #	Bachelor of Science Computer Science				Credits
Program Core					
GU100	Student Success				1.00
CS208	Programming in JavaScript				4.00
CS263	Programming in C				4.00
CS270	Data Structures				3.00
CS336	Systems Analysis & Design				4.00
CS405	Software Engineering				4.00
IS212	.NET Concepts & Principles				4.00
IS412	.NET Implementations				4.00
MA141	Pre Calculus				3.00
MA302	Calculus I (MA141)				4.00
MA312	Calculus II (MA302)				4.00
PH220	Physics I				4.00
Program Electives					
	300+ level CS electives				4.00
	Electives				10.00
Transfer Credits Applied From State Technical College of Missouri					69.00
Semester Credit Hours To Be Completed with Grantham University					57.00
Total Credit Hours Needed To Complete Degree Program					126.00