



**Transfer Guide for St. Charles Community College
Associate of Science in Programming to Bachelor of Science in Computer Science**

St. Charles Community College Associate of Science in Programming		Central Methodist University Bachelor of Science in Computer Science	
General Education Core Requirements			
ENG101 English Composition I	3	EN110 Freshman Writing I	3
ENG102 English Composition II	3	EN111 Freshman Writing II	3
SPE101 Oral Communications	3	CT101 Public Speaking	3
MAT180 Calculus and Analytic Geometry I	5	MA103 College Algebra (or higher)	3-5
No Equivalent		EN305/EN306 Expository or Tech Writing	3
*PHL201 World Religions	3	RL122 Religion and the Human Adventure	3
HIS101/102/115/270 or POL101/102	3	Social Science with Constitution	3
*LIT210/220/240/260/271/273	3	EN222 Introduction to Literature	3
*Various Equivalents	3	Valuing or Social Science	3
Natural Science with Lab	4-5	Science with Lab	4-5
Additional General Education Requirements – Tier II			
Humanities	3	Humanities or Fine Arts	3
*Various Equivalents	3	Humanities or Fine Arts	3
*Various Equivalents	3	Social Science	3
*Various Equivalents	3	Social Science	3
BTC/CPT103 Microcomputer Applications	3	BU225 Comp Apps in Bus (Analytical Skills)	3
MAT175 Introductory Statistics	3	MA105 Elementary Stats (Analytical Skills)	3
*Various Equivalents	3	Science	3
Major-Computer Science			
All courses transferred as equivalents will fulfill the degree requirement but will not fulfill the 300 level requirements. All students must meet the residency requirement of 30 of the last 36 hours must be from Central Methodist University.			
All students must have 36 hours of 300 level course work from a four year institution.			
CPT182 Beginning Programming in C++	3	CS172 .NET I	3
CPT281 Advanced Programming in C++	3	CS271 .NET II	3
No Equivalent		CS362 Database Systems and SQL	3
No Equivalent		CS363 Networking	3
No Equivalent		CS371 Concepts of MIS	3
No Equivalent		CS377 Comp Architecture and Operating Syst	3
No Equivalent		CS378 Data Structures and Algorithms	3
No Equivalent		CS480 Senior Thesis	3
No Equivalent		SC425 Science Seminar Capstone	1
One (1) from the following:			
CPT187 Visual Basic .NET	3	CS236 Programming in Visual Basic	3
CPT189 Java Programming	3	CS237 Programming with Java	3
No Equivalent		CS272 Survey of Programming Languages	3
Two (2) from the following:			
CPM160 Introduction to HTML	3	CS214 Web Page Design	3
CPM190 Dynamic Programming Languages	3	CS216 Web Programming	3
No Equivalent		CS231 Scientific Computer Programming	3
CPT160 Mobile Apps Development	3	CS275 Mobile Application Development	3
No Equivalent		CS375 Game Programming	3
No Equivalent		MA107 Discrete Math	3

All students must meet the residency requirement of 30 of the last 36 hours must be from Central Methodist University. **All students must have 36 hours of 300 level course work from a four year institution.** All students must have a minimum of 15 hours in the major at the 300 level. All students must have a minimum of 124 hours.

Minor (17-18 hours)			
Required A.S. Courses		Electives	
CPT135 Python Programming	3	CS Elective	3
CPT165 Computer Programming Logic	3	CS Elective	3
CPT200 Systems Analysis and Design	3	CS Elective	3
**MAT230 Calc. and Analytic Geometry II	5	MA209 Calculus and Analytic Geometry II	5
**MAT240 Calc. and Analytic Geometry III	5	MA308 Calculus and Analytic Geometry III	5
Total Credit Hours	65+	Total Credit Hours	124

*SCC transferable courses not included in the A.A.S. degree.

**Courses may be counted toward minor requirement or used as electives.



**Transfer Guide for St. Charles Community College
Associate of Science in Cyber Security to Bachelor of Science in Computer Science**

St. Charles Community College Associate of Science in Cyber Security		Central Methodist University Bachelor of Science in Computer Science	
General Education Core Requirements			
ENG101 English Composition I	3	EN110 Freshman Writing I	3
ENG102 English Composition II	3	EN111 Freshman Writing II	3
SPE101 Oral Communications	3	CT101 Public Speaking	3
MAT162 College Algebra – STEM	4	MA103 College Algebra (or higher)	3-5
No Equivalent		EN305/EN306 Expository or Tech Writing	3
*PHL201 World Religions	3	RL122 Religion and the Human Adventure	3
HIS101/102/115/270 or POL101/102	3	Social Science with Constitution	3
*LIT210/220/240/260/271/273	3	EN222 Introduction to Literature	3
*Various Equivalents	3	Valuing or Social Science	3
Natural Science with Lab	4-5	Science with Lab	4-5
Additional General Education Requirements – Tier II			
Humanities	3	Humanities or Fine Arts	3
PHL160 Ethics	3	Humanities	3
*Various Equivalents	3	Social Science	3
*Various Equivalents	3	Social Science	3
CPT103 Microcomputer Applications	3	BU225 Comp Apps in Bus (Analytical Skills)	3
MAT175 Introductory Statistics	3	MA105 Elementary Stats (Analytical Skills)	3
*Various Equivalents	3	Science	3
Major-Computer Science			
All courses transferred as equivalents will fulfill the degree requirement but will not fulfill the 300 level requirements. All students must meet the residency requirement of 30 of the last 36 hours must be from Central Methodist University.			
All students must have 36 hours of 300 level course work from a four year institution.			
CPT182 Beginning Programming in C++	3	CS172 .NET I	3
CPT281 Advanced Programming in C++	3	CS271 .NET II	3
No Equivalent		CS362 Database Systems and SQL	3
No Equivalent		CS363 Networking	3
No Equivalent		CS371 Concepts of MIS	3
No Equivalent		CS377 Comp Architecture and Operating Syst	3
No Equivalent		CS378 Data Structures and Algorithms	3
No Equivalent		CS480 Senior Thesis	3
No Equivalent		SC425 Science Seminar Capstone	1
One (1) from the following:			
CPT187 Visual Basic .NET	3	CS236 Programming in Visual Basic	3
CPT189 Java Programming	3	CS237 Programming with Java	3
No Equivalent		CS272 Survey of Programming Languages	3
Two (2) from the following:			
CPM160 Introduction to HTML	3	CS214 Web Page Design	3
CPM190 Dynamic Programming Languages	3	CS216 Web Programming	3
No Equivalent		CS231 Scientific Computer Programming	3
CPT160 Mobile Apps Development	3	CS275 Mobile Application Development	3
No Equivalent		CS375 Game Programming	3
No Equivalent		MA107 Discrete Math	3

All students must meet the residency requirement of 30 of the last 36 hours must be from Central Methodist University. **All students must have 36 hours of 300 level course work from a four year institution.** All students must have a minimum of 15 hours in the major at the 300 level. All students must have a minimum of 124 hours.

Minor (17-18 hours)			
Required A.S. Course		Electives	
MAT150 Trigonometry	3	Transferred Elective	3
CPT/CPC/CPM Course	3	CS Elective	3
CPT/CPC/CPM Course	3	CS Elective	3
Total Credit Hours	60+	Total Credit Hours	124

*SCC transferable courses not included in the A.S. degree.

**Transfer Guide for St. Charles Community College
Associate of Science in Management Information Systems to Bachelor of Science in Computer Science**

St. Charles Community College Associate of Science in Mgmt Information Systems		Central Methodist University Bachelor of Science in Computer Science	
General Education Core Requirements			
ENG101 English Composition I	3	EN110 Freshman Writing I	3
ENG102 English Composition II	3	EN111 Freshman Writing II	3
SPE101 Oral Communications	3	CT101 Public Speaking	3
MAT162 College Alg. or MAT180 Calculus I	4-5	MA103 College Algebra (or higher)	3-5
No Equivalent		EN305/EN306 Expository or Tech Writing	3
*PHL201 World Religions	3	RL122 Religion and the Human Adventure	3
HIS101/102/115/270 or POL101/102	3	Social Science with Constitution	3
*LIT210/220/240/260/271/273	3	EN222 Introduction to Literature	3
*Various Equivalents	3	Valuing or Social Science	3
Natural Science with Lab	4-5	Science with Lab	4-5
Additional General Education Requirements – Tier II			
Humanities	3	Humanities or Fine Arts	3
*Various Equivalents	3	Humanities or Fine Arts	3
*Various Equivalents	3	Social Science	3
*Various Equivalents	3	Social Science	3
CPT103 Microcomputer Applications	3	BU225 Comp Apps in Bus (Analytical Skills)	3
MAT175 Introductory Statistics	3	MA105 Elementary Stats (Analytical Skills)	3
*Various Equivalents	3	Science	3
Major-Computer Science			
All courses transferred as equivalents will fulfill the degree requirement but will not fulfill the 300 level requirements. All students must meet the residency requirement of 30 of the last 36 hours must be from Central Methodist University.			
All students must have 36 hours of 300 level course work from a four year institution.			
CPT182 Beginning Programming in C++	3	CS172 .NET I	3
CPT281 Advanced Programming in C++	3	CS271 .NET II	3
No Equivalent		CS362 Database Systems and SQL	3
No Equivalent		CS363 Networking	3
No Equivalent		CS371 Concepts of MIS	3
No Equivalent		CS377 Comp Architecture and Operating Syst	3
No Equivalent		CS378 Data Structures and Algorithms	3
No Equivalent		CS480 Senior Thesis	3
No Equivalent		SC425 Science Seminar Capstone	1
One (1) from the following:			
CPT187 Visual Basic .NET	3	CS236 Programming in Visual Basic	3
CPT189 Java Programming	3	CS237 Programming with Java	3
No Equivalent		CS272 Survey of Programming Languages	3
Two (2) from the following:			
CPM160 Introduction to HTML	3	CS214 Web Page Design	3
CPM190 Dynamic Programming Languages	3	CS216 Web Programming	3
No Equivalent		CS231 Scientific Computer Programming	3
CPT160 Mobile Apps Development	3	CS275 Mobile Application Development	3
No Equivalent		CS375 Game Programming	3
No Equivalent		MA107 Discrete Math	3

All students must meet the residency requirement of 30 of the last 36 hours must be from Central Methodist University. **All students must have 36 hours of 300 level course work from a four year institution.** All students must have a minimum of 15 hours in the major at the 300 level. All students must have a minimum of 124 hours.

Minor (17-18 hours)			
Required A.S. Courses		Electives	
MAT150 Trigonometry or MAT230 Calc. II	3-5	Transferred Elective	3-5
CPT/BUS105 Computer/Business Ethics	3	Transferred Elective	3
CPT/CPC/CPM Course	3	CS Elective	3
CPT/CPC/CPM Course	3	CS Elective	3
Total Credit Hours	60+	Total Credit Hours	124

*SCC transferable courses not included in the A.A.S. degree.