



**TRANSFER GUIDE - ASSOCIATE DEGREE PROGRAMS**

**MSTC Program: IT Software Developer 1920**

**Lakeland University Program: Computer Science**

**Minimum GPA for admission: 2.0**

**Review Date: 2019-20**

**General Education Courses**

MSTC			Lakeland		
Course No.	Course Title	Credits	Course No.	Course Title/Field	Credits
10801136	English Composition I	3	GEN 110	Composition I: Academic Writing	3
10801196	Oral/Interpersonal Communication - OR - Speech	3	COM 111	Fundamentals of Public Speaking	3
10801198					
10804107	College Mathematics - OR -	3 to 4	MAT 130	Intermediate Algebra	3 to 4
10804118	Intermediate Algebra with Applications -OR-		MAT 130	Intermediate Algebra	
10804189	Introductory Statistics		MAT 220	Probability and Statistics	
10809103	Think Critically & Creatively	3	GEN 130	Core I: Foundations of Critical Thinking	3
10809166	Intro to Ethics: Theory & Application	3	PHI 232	Ethics	3
10809188	Developmental Psychology - OR -	3	PSY 330	Human Growth and Development	3
10809198	Intro to Psychology		PSY 200	General Psychology	
<b>Total general education credits earned:</b>		<b>18 to 19</b>	<b>Total general education credits accepted:</b>		<b>18 to 19</b>

Course No.	Course Title	Credits	Course No.	Course Title	Credits
10152121	Object-Oriented Programming 1	3	CPS 280	Special Topics in Computer Science	3
10152150	Web Design 1	3		An elective course	3
10152101	Intro to Programming	3	CPS 200	Programming I	3
10152159	User Experience Design	3		An elective course	3
10152174	Collaborative Application Development	3		An elective course	3
10156101	Database Concepts and Design	3	CPS 210	Database Basics	3
10152122	Object-Oriented Programming 2	3		An elective course	3
10152160	Introductory Mobile Application Development	3	CPS 435	Mobile Application Development	3
10152155	Web Programming 1	3	CPS 280	Special Topics in Computer Science	3
10152123	Object-Oriented Programming 3	3	CPS 315	Object-Oriented Programming I	3
10152175	Software Architecture	3		An elective course	3
10156102	SQL Development	3		An elective course	3
10150110	Networking I	3	CPS 325	Networking & Telecommunications	3
10152158	Web Programming 2	3		An elective course	3
10152176	Application Development Capstone	3		An elective course	3
10152177	Software Developer Internship -OR-	3	CPS 400	Internship in Computer Science	3
10102130	Career Development -OR-			An elective course	
10801199	Employment Strategies -OR-			An elective course	
10152161	Intermediate Mobile Application Development			An elective course	
<b>Total transferable credits:</b>		<b>48</b>	<b>Total transferable credits:</b>		<b>66 to 67</b>

NOTE: Transfer credits noted assume completed Associate's Degree.

**Courses needed to complete degree at Lakeland University:**

Course No.	Course Title	Credits
GEN 112	Composition II: Argumentation & Research	3
GEN 3XX	Core II: Exploring Human Condition	3
GEN 4XX	Core III: Shaping the Future	3
<b>Complete at least one emphasis</b>		
	<b>Computer Science Emphasis</b>	9
CPS 212	Programming II	3
CPS 362	Introduction to Data Structures	3
CPS 442	Data Management & Warehousing	3
CPS 445	Systems Analysis & Design	3
MAT 250	Discrete Mathematics	3
CPS 221	COBOL Programming	
CPS 250	Cybersecurity I	
CPS 313	Advanced Programming	
CPS 314	Programming Languages	
CPS 316	Object-Oriented Programming II	
CPS 318	Computational Modeling and Visualization	
CPS 323	Computer Architecture	
CPS 400	Internship in Computer Science	
CPS 420	Operating Systems	
CPS 425	Artificial Intelligence	
CPS 426	Game Design and Development	
CPS 450	Cybersecurity II	
CPS 452	Information Technology Project Management	
CPS 455	Predictive Analysis	
CPS 480	Special Topics in Computer Science	
CPS 490	Independent Study in Computer Science	
CPS 400	Internship in Computer Science	
	<b>Up to four (4) semester hours from the following non-CPS designated courses:</b>	
MAT 370	Numerical Analysis	
	A foreign language course	
	<b>Information Systems Emphasis</b>	9
CPS 314 OR CPS 221	Programming Languages OR COBOL Programming	
CPS 452	Information Technology Project Management	
CPS 455	Predictive Analysis	
	<b>Software Design Emphasis</b>	9
CPS 313 OR CPS 221	Advanced Programming OR COBOL Programming	
CPS 314	Programming Languages	
CPS 316	Object-Oriented Programming II	
	<b>General Electives (regardless of emphasis selected)</b>	21 to 22
<b>Total credits needed at Lakeland University to complete degree:</b>		<b>53 to 54</b>