



TRANSFER GUIDE - ASSOCIATE DEGREE PROGRAMS
 Gateway Program: Information Technology - Software Developer Academic Year 2122
 Lakeland University Program: Computer Science with a Computer Science emphasis -Academic Year 2021-2022
 Minimum GPA for admission: 2.0
 Review Date: 11/2021

General Education Courses					
Technical College			Lakeland		
Course No.	Course Title	Credits	Course No.	Course Title/Field	Credits
801-136	English Composition 1	3	GEN 110	Composition I: Academic Writing	3
804-135	Quantitative Reasoning OR	3-5	MAT 120	Quantitative Reasoning	3-5
809-195	Economics OR	3	MAT 140	Advanced Algebra	3
809-143	Microeconomics	3	ECN 235	Macroeconomics	3
801-197	Technical Reporting	3	ECN 230	Microeconomics	3
809-198	Introduction to Psychology	3	WRT 335	Technical Writing	3
890-155	Gateway to Success	1	PSY 200	General Psychology	3
			GEN 103	College Success Seminar	1
Total general education credits earned:			Total general education credits accepted:		
16-18			16-18		

Course No.	Course Title	Credits	Course No.	Course Title	Credits
107-011	IT in Business	3		An elective course	3
152-093	IBM Advanced Java Programming	3	CPS 316	Object-Oriented Programming II	3
152-105	IBM Enterprise Systems Concepts	2		An elective course	2
152-122	Computer Programming RBG/IV (ILE)	3		An elective course	3
152-125	Computer Programming RBG/IV (ILE) Adv.	3		An elective course	3
152-126	Intro to Programming and Database Concepts	4	CPS 200	Programming I	4
152-131	Systems Design/Development	3	DAT 445	Systems Analysis & Design (Writing Intensive)	3
152-133	IBM Control Language	2		An elective course	2
152-141	Java Programming - IBM Systems	3	CPS 315	Object-Oriented Programming I	3
152-145	Internet Programming	3	CPS 280	Special Topics in Computer Science	3
152-151	Microcomputer Prog. Advanced	3		An elective course	3
152-158	DB2/UDB Programming	3	DAT 210	Database Basics	3
152-164	Mobile Device Programming	3	CPS 435	Mobile Application Development	3
152-167	Zend (PHP) Application Programming	3		An elective course	3
152-168	IBM and .NET Enterprise Programming	3	CPS 280	Special Topics in Computer Science	3
	Elective course	3		An elective course	3
Total of Occupational/Elective		47	Total of Occupational/Elective		47
Total transferable credits:		63-65	Total transferable credits:		63-65

NOTE: Transfer credits noted assume completed Associate's Degree.
 *Both courses must be completed to fulfill requirement

^ Courses only offered on the main campus

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 the Human Condition	3
GEN 4XX	CORE III: Shaping the Future	3
CPS 212	Programming II	3
CPS 362	Introduction to Data Structures	3
DAT 442	Data Management & Warehousing	3
MAT 250	Discrete Mathematics	3
Computer Science Emphasis chose 3 from list below		9
CPS 221	COBOL Programming	
CPS 313	Advanced Programming	
CPS 314	Programming Languages	
CPS 323	Computer Architecture	
CPS 325	Networking and Telecommunications	
CPS 400	Internship in Computer Science	
CPS 420	Operating Systems	
CPS 421	Human-Computer Interaction Lab I [^]	
CPS 422	Human-Computer Interaction Lab II [^]	
CPS 425	Artificial Intelligence	
CPS 426	Game Design & Development	
CPS 480	Special Topics in Computer Science	
CPS 490	Independent Study in Computer Science	
CYS 250	Foundations of Cybersecurity	
CYS 450	Ethical Hacking & Penetration Testing	
CYS 451	Digital Forensics	
DAT 301	Introduction to Data Visualization Techniques	
DAT 318	Computational Modeling and Visualization	
DAT 401	Operations Research	
DAT 402	Adv. Modeling Techniques & Visualization (WI)	
DAT 452	Information Technology Project Management	
DAT 455	Predictive Analytics	
	Up to four semester hours from the following non-CPS designated courses	
MAT 370	Numerical Analysis	
	A foreign language course	
Electives needed to reach the 120 credit minimum:		25 to 27
Total credits needed to complete Lakeland University degree:		55-57