LAKELAND UNIVERSITY

TRANSFER GUIDE - ASSOCIATE DEGREE PROGRAMS
Gateway Program: Information Technology - Web Software Developer Academic Year 2122
Lakeland University Program: Computer Science with 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
804-115	College Technical Math 1		MAT 140	Advanced Algebra	
809-195	Economics OR	3	ECN 235	Macroeconomics	3
809-143	Microeconomics		ECN 230	Microeconomics	
801-197	Technical Reporting	3	WRT 335	Technical Writing	3
809-198	Introduction to Psychology	3	PSY 200	General Psychology	3
890-155	Gateway to Success	1	GEN 103	College Success Seminar	1
	Total general education credits earned:	16-18		Total general education credits accepted:	16-18

Occupational Courses

Course No.	Course Title	Credits	Course No.	Course Title	Credits
152-080	Databases	3	DAT 210	Database Basics	3
152-081	Programming in Python	3	CPS 200	Programming I	3
152-082	Web Developer Orientation	1		An elective course	1
152-083	Web Developer Project	3	DAT 452	Information Technology Project Management	3
152-096	Develop ASP.NET Web Apps 2	3		An elective course	3
152-097	JavaScript	3	CPS 280	Special Topics in Computer Science	3
152-150	Web Programming 2	3		An elective course	3
152-164	Mobile Device Programming	3	CPS 435	Mobile Application Development	3
152-174	Java Programming 2	3	CPS 316	Object-Oriented Programming II	3
152-178	Develop ASP.NET Web Apps	3		An elective course	3
152-182	Web Programming 1	3	CPS 280	Special Topics in Computer Science	3
152-184	Java Programming 1	3	CPS 315	Object-Oriented Programming I	3
152-185	Advanced PHP	3		An elective course	3
152-188	PHP Web Programming	3		An elective course	3
	Elective course	6		Elective courses	6
	Total of Occupational/Elective	46		Total of Occupational/Elective	46
	Total transferable credits:	62-64		Total transferable credits:	62-64

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

^ 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
DAT 445	Systems Analysis & Design (Writing Intensive)	3
MAT 250	Discrete Mathematics	3
	Computer Science Emphasis *chose 2 from list below*	6
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 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:	26 to 28
	Total credits needed to complete Lakeland University degree:	**56-58**