Northcentral TECHNICAL COLLEGE

TRANSFER GUIDE - ASSOCIATE DEGREE PROGRAMS
NTC Program: IT - NETWORK SPECIALIST
Lakeland University Program: Computer Science w/ Computer Science emphasis
Minimum GPA for admission:3.0
Initial effective date: Fall 2022

General Education Courses

NTC			Lakeland University		
Course No.	**Course Title**	**Credits**	**Course No.**	**Course Title/Field**	**Credits**
10-801-196 10-801-198	Oral/Interpersonal Communications OR Speech	3	COM111	Fundamentals of Public Speaking	3
10-801-195 10-801-136	Written Communication OR English Composition 1	3	GEN110	Composition I: Academic Writing	3
10-809-103	Think Critically & Creatively	3	GEN 130	Core I: Foundations of Critical Thinking	3
10-801-197	Technical Reporting	3	WRT 335	Technical Writing	3
10-809-199 10-809-198	Psychology of Human Relations OR Intro to Psychology	3	PSY200	An elective course General Psychology	3
10-804-133	Math & Logic	3		An elective course	3
10-890-165	College 101	1	GEN 103	College Success Seminar	1
	Total general education credits earned:	**19**			
	Total transferable general education credits:	19		**Total general education credits accepted:**	**19**

Occupational Courses

Course No.	**Course Title**	**Credits**	**Course No.**	**Course Title/Field**	**Credits**
10-150-185	Cisco 1 - Network Communications 1	3	CPS 325	Networking & Telecommunications	3
10-150-114	Principles of Information Security	2		An elective course	2
10-154-100	IT Hardware Fundamentals	3		An elective course	3
10-154-102	IT Software Fundamentals	3		An elective course	3
10-150-186	Cisco 2 - Network Communications 2	3		An elective course	3
10-150-121	Windows Server 1	3	*CPS 420	Operating Systems	3
10-150-122	Linux Server 1	3	*CPS 420	Operating Systems	3
10-150-503	Command Line Scripting	1		An elective course	1
10-151-117	Python for Cybersecurity	1		An elective course	1
10-156-102	Intro to Python	1		An elective course	1
10-150-187	Cisco 3 - Network Communications 3	3		An elective course	3
10-150-181	Enterprise Virtual Servers	3		An elective course	3
10-150-501	Unified Communications	3		An elective course	3
10-150-124	Network Security	3	CPS 280	Special Topics in Computer Science	3
10-150-506	Network Capstone	3		An elective course	3

10-150-502	Network Operations Management	3		An elective course	3
10-152-398	IT Career Skills OR	1	EXP 100	Professional Protocol	1
10-152-399	IT Internship			An elective course	
	Total occupational course credits earned:	**42**		**Total occupational course credits accepted:**	**42**
	Elective credits allowed:	**0**		**Elective credits allowed:**	**0**
	Total credits required for graduation:	**61**			
	Total transferable credits:	**61**		**Total credits accepted at Lakeland University:**	**61**

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

*Both courses are needed to fulfill requirement

Courses needed to complete degree at Lakeland University:

Course No.	Course Title	Credits
GEN 112	Composition II: Argumentation and Research	3
GEN3XX	CORE II: The Human Condition	3
GEN4XX	CORE III: Shaping the Future	3
CPS 200	Programming I	3
CPS 212	Programming II	3
CPS 362	Introduction to Data Structures	3
DAT 210	Database Basics	3
DAT 442	Data Management & Warehousing	3
DAT 445	Systems Analysis & Design (Writing Intensive)	3
MAT 250	Discrete Mathematics	3
Computer Science Emphasis: *(choose 15 semester hours)*		
CPS 221	COBOL Programming (3 Cr)	
CPS 313	Advanced Programming (3 Cr)	
CPS 314	Programming Languages (3 Cr)	
CPS 315	Object-Oriented Programming I (3 Cr)	
CPS 316	Object-Oriented Programming II (3 Cr)	
CPS 323	Computer Architecture (3 Cr)	
CPS 400	Internship in Computer Science (3 Cr)	
CPS 421^	Human-Computer Interaction Lab II (3 Cr)	
CPS 422^	Human-Computer Interaction Lab II (3 Cr)	
CPS 425	Artificial Intelligence (3 Cr)	
CPS 426	Game Design & Development (3 Cr)	
CPS 435	Mobile Application Development (3 Cr)	
CPS 480	Special Topics in Computer Science (3 Cr)	
CPS 490	Independent Study in Computer Science (3 Cr)	15
CYS 250	Foundations of Cybersecurity (3 Cr)	
CYS 450	Ethical Hacking & Penetration Tracking (3 Cr)	

CYS 451	Digital Forensics (3 Cr)	
DAT 301	Introduction to Data Visualization Techniques (3 Cr)	
DAT 318	Computational Modeling and Visualization (3 Cr)	
DAT 401	Operations Research (3 Cr)	
DAT 402	Advanced Modeling Techniques and Visualization (3 Cr)	
DAT 301	Introduction to Data Visualization Techniques (3 Cr)	
DAT 452	Information Technology Project Management (3 Cr)	
DAT 455	Predictive Analysis (3 Cr)	
Up to four semester hours from the following non-CPS designated courses		
MAT 370	Numerical Analysis (3 Cr)	0 to 4
	A foreign language course	
Number of electives needed to reach 120 credit minimum		14
Total credits to complete at Lakeland University:		**59**
Total credits needed to complete degree:		**120**

^Courses only offered at Main Campus

Disclaimer: Students planning to transfer should contact NTC's Transfer Specialist and transfer personnel at Lakeland University for the most current transfer information.

Updated on 6/17/24