![Northcentral Technical College logo]

TRANSFER GUIDE - ASSOCIATE DEGREE PROGRAMS
NTC Program: Data Analytics

Lakeland University Program: Industrial Systems Analytics

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	Oral/Interpersonal Communications	3	COM111	Fundamentals of Public Speaking	3
10-801-195	Written Communication OR	3	GEN110	Composition I: Academic Writing	3
10-801-136	English Composition 1				
10-804-189	Introductory Statistics	3	MAT220	Probability and Statistics	3
10-809-199	Psychology of Human Relations OR	3		An elective course	3
10-809-198	Intro to Psychology		PSY200	General Psychology	
10-809-166	Intro to Ethics: Theory & App	3	PHI232	Ethics	3
10-804-133	Math & Logic	3		An elective course	3
10-890-165	College 101	1	GEN 103	College Success Seminar	1
10-809-195	Economics	3	ECN235	Principles of Macroeconomics	3
10-804-135	Quantitative Reasoning	3	MAT120	Quantitative Reasoning	3
	Total general education credits earned:	25			
	Total transferable general education credits:	25		**Total general education credits accepted:**	**25**

Occupational Courses					
Course No.	Course Title	Credits	Course No.	Course Title	Credits
10-150-114	Principles of Information Security	2		An elective course	2
10-156-102	Python A	1		An elective course	1
10-156-103	Python B	1		An elective course	1
10-152-531	Data Concepts A	1		An elective course	1
10-152-532	Data Concepts B	1		An elective course	1
10-152-533	Data Concepts C	1		An elective course	1
10-152-500	IT Development and Design Fundamentals	1		An elective course	1
10-152-501	Programming Concepts A	1	CPS200*	Programming I	1
10-152-502	Programming Concepts B	1	CPS200*	Programming I	1
10-152-503	Programming Concepts C	1	CPS200*	Programming I	1
10-152-534	Database Design and SQL A	1	CPS200*	Programming I	1
10-152-535	Database Design and SQL B	1	CPS200*	Programming I	1
10-152-536	Database Design and SQL C	1	CPS200*	Programming I	1
10-156-113	Data Visualizations 1	1		An elective course	1

Course No.	Course Title	Credits		Course Title	Credits
10-156-117	Data Visualizations 2	1		An elective course	1
10-152-335	Data Reporting	3	DAT442%	Data Management & Warehousing	3
10-152-570	Advanced Data Management A	1		An elective course	1
10-152-571	Advanced Data Management B	1		An elective course	1
10-152-572	Advanced Data Management C	1		An elective course	1
10-156-104	IT Project Management	3	DAT452	Information Technology Project Management	3
10-156-109	Data Mining & Predictive Analytics 1	1	DAT442%	Data Management & Warehousing	1
10-156-110	Optimization and Simulation 1	1		An elective course	1
10-156-114	Intro to R	1		An elective course	1
10-156-105	Data Capstone	3		An elective course	3
10-156-106	Modeling and Machine Learning	3		An elective course	3
10-156-111	Data Mining & Predictive Analytics 2	1	DAT442%	Data Management & Warehousing	1
10-156-112	Optimization and Simulation 2	1		An elective course	1
10-156-115	Data Mining & Predictive Analytics 3	1	DAT442%	Data Management & Warehousing	1
10-156-116	Optimization and Simulation 3	1		An elective course	1
	Total occupational course credits earned:	**38**		**Total occupational course credits accepted:**	**38**
	Elective credits allowed:			**Elective credits allowed:**	
	Total credits required for graduation:	**63**			
	Total transferable credits:	**63**		**Total credits accepted at Lakeland University:**	**63**

NOTE: Transfer credits noted assume completed Associate's Degree.   *%all courses needed to fulfill requirement*

*all courses are needed to fulfill requirement

#all 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 212	Programming II	3
CPS 313	Advanced Programming	3
DAT 318	Computational Modeling and Visualization	3
DAT 401	Operations Research	3
DAT 402	Advanced Modeling Techniques and Visualization	3
DAT 455	Predictive Analysis	3
MAT 231	Calculus I	4
MAT 250	Discrete Mathematics	3
MAT 320	Applied Statistics	3

MAT 362	Linear Algebra	3
Number of electives needed to reach 120 credit minimum		17
Total credits to complete at Lakeland University:		**57**
Total credits needed to complete degree:		**120**

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: 9/27/23