



**TRANSFER GUIDE - ASSOCIATE DEGREE PROGRAMS**

**WITC Program: IT-NETWORK SPECIALIST**

**Lakeland College Program: Computer Science 2018-2019**

**Minimum GPA for admission: 2.0**

**General Education Courses**

WITC			Lakeland		
Course No.	Course Title	Credits	Course No.	Course Title/Field	Credits
10-801-136	English Composition 1	3	GEN 110	Composition I: Academic Writing	3
10-801-198	Speech	3	COM 111	Fundamentals of Public Speaking	3
OR 10-801-196	OR Oral/Interpersonal Communication		COM 111	Fundamentals of Public Speaking	
10-804-123	Math w/Business Applications	3		An elective course	3
OR 10-804-113	OR College Technical Mathematics 1A		MAT 130	Intermediate Algebra	
OR 10-804-133	OR Mathematics & Logic		MAT 220	Probability & Statistics	
10-809-172	Introduction to Diversity Studies	3	SOC 210	Majority-Minority Relations	3
OR 10-809-195	OR Economics		ECN GEN	General Economics	
OR 10-809-166	OR Introduction to Ethics: Theory and Application		PHI 232	Ethics	
10-809-198	Introduction to Psychology	3	PSY 200	General Psychology	3
<b>Total transferable general education credits:</b>		<b>15</b>	<b>Total credits accepted:</b>		<b>15</b>

**Occupational Courses**

Course No.	Course Title	Credits	Course No.	Course Title	Credits
10150102	Information Security	3		An elective course	3
10150106	Router and Firewall Security	3	CPS 250	Cybersecurity I	3
10150109	Wireless LANs	3		An elective course	3
10150111	Cisco CCNA 1 Introduction to Networks	3	CPS 325	Networking and Telecommunications	3
10150112	Cisco CCNA 3 Scaling Networks	3		An elective course	3
10150113	Cisco CCNA 2 Routing and Switching Essentials	3		An elective course	3
10150114	Cisco CCNA 4 Connecting Networks	3		An elective course	3
10150117	MS LAN Administration - Infrastructure	3		An elective course	3
10150118	MS LAN Administration - Active Directory	3		An elective course	3
10150139	IT Essentials	2		An elective course	2
10150140	Introduction to VOIP (Voice Over IP) Technology	3		An elective course	3
10150160	Networking Capstone	1		An elective course	1
10150161	Networking Case Studies	1		An elective course	1
10150162	Network +	1		An elective course	1
10150170	Coding with Python	2		An elective course	2
10154103	Linux Operating Systems	3	CPS 420	Operating Systems	3
10154149	Windows Operating Systems	3	CPS 280	Special Topics in Computer Science	3
10154160	Troubleshooting	2		An elective course	2
	Elective	3		An elective course	3
<b>Total occupational credits</b>		<b>48</b>	<b>Total credits accepted at Lakeland University</b>		<b>63</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	Persuasive Writing	3
GEN 3XX	Core II: Exploring the Human Condition	3
GEN 4XX	Core III: Shaping the Future (Writing Intensive)	3
<b>Computer Science Major Core Courses</b>		
CPS 200	Programming I	3
CPS 210	Database Basics	3
CPS 212	Programming II	3
CPS 362	Introduction to Data Structures	3
CPS 442	Data Management, Warehousing & Mining	3
CPS 445	Systems Analysis & Design (Writing Intensive)	3
MAT 250	Discrete Mathematics	3
<b>Complete one area of emphasis</b>		
<b>Computer Science Emphasis: 18-19 semester hours:</b>		<b>18-19</b>
CPS 221	COBOL Programming	
CPS 313	Advanced Programming	
CPS 314	Programming Languages	
CPS 315	Object-Oriented Programming I	
CPS 316	Object-Oriented Programming II	
CPS 323	Computer Architecture	
CPS 400	Internship in Computer Science	
CPS 425	Artificial Intelligence	
CPS 435	Mobile Application 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	
	Up to four semester hours from the following non-CPS designated courses	
BUS 301	Management Information Systems	
MAT 370	Numerical Analysis	
	A foreign language course	
	Additional general electives for degree	8-9
<b>Information Systems Emphasis: 18 total</b>		<b>18</b>
BUS 301	Management Information Systems	
CPS 314	Programming Languages	
<b>OR CPS 221</b>	<b>OR COBOL Programming</b>	
CPS 315	Object-Oriented Programming I	
CPS 452	Information Technology Project Management	
CPS 455	Predictive Analysis	
	Three (3) additional semester hours from the Computer Science emphasis not already earned as transfer or used in above emphasis	
	Additional general electives for degree	9
<b>Software Design Emphasis: 18 total</b>		<b>18</b>
CPS 221	COBOL Programming	
<b>OR CPS 313</b>	<b>OR Advanced Programming</b>	
CPS 314	Programming Languages	
CPS 315	Object-Oriented Programming I	
CPS 316	Object-Oriented Programming II	
CPS 435	Mobile Application Development	
	Three (3) additional semester hours from the Computer Science emphasis already earned as transfer or used in above emphasis	
	Additional general electives for degree	9
<b>Total credits required to earn degree</b>		<b>57</b>



