



**TRANSFER GUIDE - ASSOCIATE DEGREE PROGRAMS**

**Program: IT-Web Software Developer 1718 Academic Year**

**Lakeland University Program: Computer Science - Computer Science emphasis**

**Minimum GPA for admission: 2.0**

**Review Date: 10/13/17**

**General Education Courses**

Madison College			Lakeland		
Course No.	Course Title	Credits	Course No.	Course Title/Field	Credits
10-801-195	Written Communication	3	GEN 110	Composition I	3
10-809-199	Psychology Of Human Relations	3		A Social Sciences course	3
10-801-196	Oral/Interpersonal Communication	3		An elective course	3
10-804-144	Math of Finance	3		An elective course	3
10-809-197	Contemporary American Society	3		A Social Sciences course	3
<b>Total general education credits earned:</b>		<b>15</b>	<b>Total general education credits accepted:</b>		<b>15</b>

**Occupational Courses**

Course No.	Course Title	Credits	Course No.	Course Title	Credits
10-107-111	Exploration of Information Technology	1		An elective course	1
10-151-102	IT Security Awareness	1		An elective course	1
10-152-119	Introduction to Programming with JavaScript	3	CPS 200	Programming I	3
10-152-120	Website Development-HTML5	3	CPS 280	Special Topics in Computer Science	3
10-152-124	Introduction to Database	3	CPS 210	Database Basics	3
10-152-111	Java Programming	3	CPS 315	Object-Oriented Programming I	3
10-152-125	SQL Database Programming	3		An elective course	3
10-152-130	Systems Design	3	CPS 445	Systems Analysis & Design	3
10-152-166	PHP Web Development with MySQL	3	CPS 280	Special Topics in Computer Science	3
10-107-175	Preparation for an IT Career	1		An elective course	1
10-152-112	Advanced Java Programming	3	CPS 316	Object-Oriented Programming II	3
10-152-121	Advanced Website Development--XML	3		An elective course	3
10-152-131	Systems Analysis	3		An elective course	3
10-152-113	Enterprise Java Programming	3		An elective course	3
10-152-132	Web Software Developer Internship	3	CPS 400	Internship in Computer Science	3
10-152-168	AJAX and JavaScript Web Development	3		An elective course	3
	Elective	3			
	Elective	3			
<b>Elective credits allowed:</b>					
<b>Total of Occupational/Elective</b>		<b>48</b>			
<b>Total transferable credits:</b>		<b>63</b>			
<b>NOTE: Transfer credits noted assume completed Associate's Degree.</b>					
				<b>Total of Occupational/Elective</b>	<b>42</b>
				<b>Total transferable credits:</b>	<b>60</b>

**Courses needed to complete degree at Lakeland University:**

<b>Course No.</b>	<b>Course Title</b>	<b>Credits</b>
GEN 112	Composition II	3
MAT 130	Intermediate Algebra	3
<b>Complete a min. of 3 semester credits in 6 of the 7 categories listed below:</b>		
	Number of semester hours still needed	18
	Mathematics	
	World Languages	
	History & Political Science	
	Art, Music & Theatre	
	Philosophy & Religion	
	Natural Science	
	Literature and Writing	
GEN3XX	CORE II	3
GEN 4XX	CORE III	3
CPS 212	Programming II	3
CPS 362	Introduction to Data Structures	3
CPS 442	Data Management, Warehousing & Mining	3
MAT 250	Discrete Mathematics	3
Additional semester hours of computer science emphasis courses		9
Number of electives needed to reach 120 semester hour minimum:		9
<b>Total credits needed at Lakeland University to complete degree:</b>		<b>60</b>