

**Siena Heights University**  
**Bachelor of Arts: Computer & Information Systems**  
**Guide Sheet for Students Transferring from JCC to SHU**

**Cognate Requirements (12 semester hours required)**

Siena Heights University			Jackson Community College		
Course Number	Course Title	Credit Hours	Course Number	Course Title	Credit Hours
BAM311	Business Ethics	3	NO EQUIVALENCY		
OR					
PHI220	Introduction to Ethics	3	*PHL236	Ethics	3
MAT174	Introduction to Statistics	3	CIS majors can take MTH133		
MAT260	Discrete Mathematics	3	MTH147	Discrete Mathematics	3
TSC101	Fundamentals of Speech Communications	3	SPH231	Communication Fundamentals	3

\*Students transferring with 60 or more hours should take PHI 220 at Siena Heights to fulfill a residency requirement.

**Core Requirements (15 semester hours required)**

Siena Heights University			Jackson Community College		
Course Number	Course Title	Credit Hours	Course Number	Course Title	Credit Hours
CIS119	Visual Basic Programming	3	CIS260	Advanced Visual Basic.Net	3
CIS218	Introduction to Info. Systems	3	CIS101+ CIS022	Intro to Computer Systems + MS Access Workshop	3+1
CIS252	Introduction to C++	3	CIS270	Advanced C++ Programming	3
CIS353	Systems Analysis	3	NO EQUIVALENCY		
CIS363	Database Management Systems	3	NO EQUIVALENCY		

**Concentrations (18 semester hours: choose one of the three following options):**

**1. Information Systems**

Siena Heights University			Jackson Community College		
Course Number	Course Title	Credit Hours	Course Number	Course Title	Credit Hours
CIS340	Java Programming	3	NO EQUIVALENCY		
CIS__	Approved Elective (300/400 level)	3	NO EQUIVALENCY		
CIS443	Data Communication	3	NO EQUIVALENCY		
CIS465	Management Information Systems	3	NO EQUIVALENCY		
CIS480	Internship	3	NO EQUIVALENCY		
CIS495	Senior Project	3	NO EQUIVALENCY		

**2. Networking**

CIS370	Network Operating Systems	3	NO EQUIVALENCY		
CIS__	Approved Elective (300/400 level)	3	NO EQUIVALENCY		
CIS443	Data Communication	3	NO EQUIVALENCY		
CIS470	Data and Network Assurance	3	NO EQUIVALENCY		
CIS480	Internship	3	NO EQUIVALENCY		
CIS495	Senior Project	3	NO EQUIVALENCY		

**3. Web Development**

CIS340	Java Programming	3	NO EQUIVALENCY		
CIS__	Approved Elective (300/400 level)	3	NO EQUIVALENCY		
CIS460	Web Development	3	NO EQUIVALENCY		
CIS480	Internship	3	NO EQUIVALENCY		
CIS485	Special Topics	3	NO EQUIVALENCY		
CIS495	Senior Project	3	NO EQUIVALENCY		