

**Parkland College and Illinois State University**  
**Transfer Guide**  
**From A.A.S. in Programming / Database Management**  
**to B.S. in Information Systems – Systems Development/Analyst Sequence**

**Parkland College**

**First Semester**

CIS 101 Introduction to Computers <i>or</i> CIS 200 Business Computer Systems	3
CIS 111 Information Technology Careers Overview	1
CSC 140 Java Programming with Object Oriented Design	3
CIS 137 Operating System Concepts	3
ENG 101 Composition I*	3
MAT 108 Statistics*	<u>3</u>
	<b>16</b>

**Third Semester**

CSC 125 Computer Science II (C++)	3
CSC 191 Oracle I: SQL	4
CSC 192 Oracle II: Database Administration	4
ACC 102 Managerial Accounting (replaces CIS 238)	3
SPE 200 Principles of Group Discussion (replaces CIS 152)	<u>3</u>
	<b>17</b>

**Second Semester**

CSC 176 Database Theory	3
CSC 256 Advanced Java with Networking	3
ACC 101 Financial Accounting (replaces CIS 138)	4
ENG 102 Composition II*	3
SPE 101 Introductory Speech Communication*	3
CTC 174 Spreadsheet Applications I	<u>1</u>
	<b>17</b>

**Fourth Semester**

CIS 211 Visual Basic Programming	3
CIS 231 System Analysis, Design, and Administration	3
MAT 128 Calculus I (replaces CIS 297 & 298)*	5
ENG 220 Professional Writing (replaces CSC 128)	3
Soc./Beh. Science or Humanities/Fine Arts (IAI)*	<u>3</u>
	<b>17</b>

\*Must be completed with grade of "C" or better

**Note: CIS 297 and CIS 298 are not required for students transferring to ISU**

**Total: 67 Semester hours**

<b>Bridge Courses to be taken at Parkland College (10 hrs):</b>	<b>MAT 141 Finite Math*</b>	<b>4 hrs</b>
	<b>BUS 204 The Legal Environment of Business</b>	<b>3 hrs</b>
	<b>Non-Lab Science (BIO 106 or BIO 120)</b>	<b>3 hrs</b>
	<b>MAT 200 Intro to Discrete Mathematics</b>	<b>3 hrs</b>
<b>(Optional)</b>		

**Illinois State University**

**First Semester**

ITK 254 Computer Architecture for Info Technology	3
ITK 272 COBOL 2 <sup>nd</sup> Language	4
ECO 105 Principles of Economics	4
MATH 120 Finite Math (if not taken at PC)	<u>4</u>
	<b>15</b>

**Third Semester**

MQM 220 Business Organization Management	3
One of ITK 341/346/353/365/367/368	3
One of:	3
• ITK 398 Professional Practice	
• ITK 398 and ITK 391 Directed Project	
• ITK 391 and one of ITK 341/346/353/365/367/368	
One each of Life Sci., Social Sci. & Humanities/FA	<u>9</u>
	<b>18</b>

**Second Semester**

ITK 372 External Data Structures	3
ITK 363 Systems Development	4
ITK 378 Database Processing	3
MATH 160 Discrete Math (if not taken at PC)	4
Physical Science	<u>3</u>
	<b>17</b>

**Fourth Semester**

One of ITK 341/346/353/365/367/368	3
ITK 375 Data Communications	3
One of:	3
• ITK 398 Professional Practice	
• ITK 398 and ITK 391 Directed Project	
• ITK 391 and one of ITK 341/346/353/365/367/368	
One each of Humanities and Fine Arts	<u>6</u>
	<b>15</b>

**Total: 65 Semester hours**

**Program Total: 142 Semester hours**

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